

# 2022 SCHEDULE 22 SUMMARY REPORT

SHELBURNE  
DRINKING WATER  
SYSTEM

For the period of  
January 1<sup>st</sup>, 2022 to December 31<sup>st</sup>, 2022

Prepared for the Corporation of the Town of Shelburne by the Ontario Clean Water Agency



*A People Place, A Change of Pace*  
**SHELBURNE**  
ONTARIO, CANADA



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:

|  |  |
|--|--|
| <b>Drinking-Water System Number:</b>   | 220004965                                |
| <b>Drinking-Water System Name:</b>     | Shelburne Drinking Water System          |
| <b>Drinking-Water System Owner:</b>    | The Corporation of the Town of Shelburne |
| <b>Drinking-Water System Category:</b> | Large Municipal Residential              |
| <b>Period being reported:</b>          | January 1, 2022 – December 31, 2022      |

## 1. Issue(s) of Non-Compliance

A Ministry of Environment, Conservation and Parks (MECP) Drinking Water System Inspection was conducted on May 4, 2022 for the period covering June 1, 2021 to April 30, 2022. On May 26, 2022 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 2021/2022 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 Shelburne Drinking Water System Annual Report (Section 11).

## 2. Assessment of Flowrates and Quantity of Water Supplied

The following tables (Table 3 to 20) 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

|  |                           |
|--|---------------------------|
| <b>Municipal Drinking Water License (MDWL):</b>  | 109-101 (Issue Number: 6) |
| <b>Allowable Rated Capacity PH1:</b>             | 2,261 m <sup>3</sup> /day |
| <b>Allowable Rated Capacity PH3:</b>             | 1,309 m <sup>3</sup> /day |
| <b>Allowable Rated Capacity PH5/6:</b>           | 1,987 m <sup>3</sup> /day |
| <b>Allowable Rated Capacity PH7/8:</b>           | 1,635 m <sup>3</sup> /day |
| <b>Allowable Flowrate into Treatment System:</b> | 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 (Well PH 1) Annual and Monthly Average and Maximum Flows with Comparison to Rated Capacity and Total Volume for 2022<sup>3A</sup>**

| Treated Water Flow – Well PH 1 |                                    |                           |                                    |                           |                                |
|--------------------------------|------------------------------------|---------------------------|------------------------------------|---------------------------|--------------------------------|
| Timeframe                      | Average Flow (m <sup>3</sup> /day) | Percent of Rated Capacity | Maximum Flow (m <sup>3</sup> /day) | Percent of Rated Capacity | Total Volume (m <sup>3</sup> ) |
| January                        | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| February                       | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| March                          | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| April                          | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| May                            | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| June                           | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| July                           | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| August                         | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| September                      | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| October                        | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| November                       | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| December                       | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| <b>2022</b>                    | <b>0.00</b>                        | <b>0.00%</b>              | <b>0.00</b>                        | <b>0.00%</b>              | <b>0.00</b>                    |

<sup>3A</sup> Pumphouse/Well PW1 is currently offline while rehabilitation and testing is being performed to bring the well back to its original flow rate, offline since January 2020

**Table 4. Treated Water (Well PH 3) Annual and Monthly Average and Maximum Flows with Comparison to Rated Capacity and Total Volume for 2022<sup>4A</sup>**

| Treated Water Flow – Well PH 3 |                                    |                           |                                    |                           |                                |
|--------------------------------|------------------------------------|---------------------------|------------------------------------|---------------------------|--------------------------------|
| Timeframe                      | Average Flow (m <sup>3</sup> /day) | Percent of Rated Capacity | Maximum Flow (m <sup>3</sup> /day) | Percent of Rated Capacity | Total Volume (m <sup>3</sup> ) |
| January                        | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| February                       | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| March                          | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| April                          | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| May                            | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| June                           | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| July                           | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| August                         | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| September                      | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| October                        | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| November                       | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| December                       | 0.00                               | 0.00%                     | 0.00                               | 0.00%                     | 0.00                           |
| <b>2022</b>                    | <b>0.00</b>                        | <b>0.00%</b>              | <b>0.00</b>                        | <b>0.00%</b>              | <b>0.00</b>                    |

<sup>4A</sup>Pumhouse/Well PH3 is undergoing upgrades with commissioning scheduled for 2023, has been offline since April 2020

**Table 5. Treated Water (Well PH 5/6) Annual and Monthly Average and Maximum Flows with Comparison to Rated Capacity and Total Volume for 2022**

| Treated Water Flow – Well PH 5/6 |                                    |                           |                                    |                           |                                |
|----------------------------------|------------------------------------|---------------------------|------------------------------------|---------------------------|--------------------------------|
| Timeframe                        | Average Flow (m <sup>3</sup> /day) | Percent of Rated Capacity | Maximum Flow (m <sup>3</sup> /day) | Percent of Rated Capacity | Total Volume (m <sup>3</sup> ) |
| January                          | 764.41                             | 38.47%                    | 1027.46                            | 51.70%                    | 23696.69                       |
| February                         | 745.46                             | 37.51%                    | 983.44                             | 49.49%                    | 20872.75                       |
| March                            | 720.44                             | 36.25%                    | 866.34                             | 43.60%                    | 22333.52                       |
| April                            | 757.43                             | 38.11%                    | 912.00                             | 45.89%                    | 22723.00                       |
| May                              | 836.42                             | 42.09%                    | 1027.58                            | 51.71%                    | 25929.00                       |
| June                             | 842.72                             | 42.41%                    | 1027.60                            | 51.71%                    | 25281.52                       |
| July                             | 869.65                             | 43.76%                    | 1027.60                            | 51.71%                    | 26959.14                       |
| August                           | 814.52                             | 40.99%                    | 1027.60                            | 51.71%                    | 25250.17                       |
| September                        | 811.07                             | 40.81%                    | 1027.59                            | 51.71%                    | 24332.05                       |
| October                          | 751.59                             | 37.82%                    | 900.28                             | 45.30%                    | 23299.17                       |
| November                         | 756.64                             | 38.07%                    | 913.28                             | 45.96%                    | 22699.33                       |
| December                         | 762.92                             | 38.39%                    | 870.98                             | 43.83%                    | 23650.58                       |
| <b>2022</b>                      | <b>786.38</b>                      | <b>39.58%</b>             | <b>1027.60</b>                     | <b>51.71%</b>             | <b>287026.92</b>               |

**Table 6. Treated Water (Well PH 7/8) Annual and Monthly Average and Maximum Flows with Comparison to Rated Capacity and Total Volume for 2022**

| <b>Treated Water Flow – Well PH 7/8</b> |   |                                  |   |                                  |                                     |
|---|---|----------------------------------|---|----------------------------------|-------------------------------------|
| <b>Timeframe</b>                        | <b>Average Flow (m<sup>3</sup>/day)</b> | <b>Percent of Rated Capacity</b> | <b>Maximum Flow (m<sup>3</sup>/day)</b> | <b>Percent of Rated Capacity</b> | <b>Total Volume (m<sup>3</sup>)</b> |
| January                                 | 1415.19                                 | 86.55%                           | 1554.68                                 | 95.08%                           | 43870.95                            |
| February                                | 1330.63                                 | 81.38%                           | 1553.45                                 | 95.01%                           | 37257.76                            |
| March                                   | 1310.05                                 | 80.12%                           | 1555.00                                 | 95.10%                           | 40611.55                            |
| April                                   | 1342.10                                 | 82.08%                           | 1555.00                                 | 95.10%                           | 40263.00                            |
| May                                     | 1437.76                                 | 87.93%                           | 1554.27                                 | 95.06%                           | 44570.71                            |
| June                                    | 1469.98                                 | 89.90%                           | 1554.30                                 | 95.06%                           | 44099.43                            |
| July                                    | 1458.51                                 | 89.20%                           | 1554.01                                 | 95.04%                           | 45213.90                            |
| August                                  | 1428.30                                 | 87.35%                           | 1554.78                                 | 95.09%                           | 44277.32                            |
| September                               | 1377.21                                 | 84.23%                           | 1554.68                                 | 95.08%                           | 41316.16                            |
| October                                 | 1302.55                                 | 79.66%                           | 1554.41                                 | 95.07%                           | 40378.97                            |
| November                                | 1321.30                                 | 80.81%                           | 1554.22                                 | 95.05%                           | 39639.12                            |
| December                                | 1299.33                                 | 79.46%                           | 1553.44                                 | 95.01%                           | 40279.36                            |
| <b>2022</b>                             | <b>1374.73</b>                          | <b>84.08%</b>                    | <b>1555.00</b>                          | <b>95.10%</b>                    | <b>501778.21</b>                    |

A review of flow information for the reporting period indicates that the drinking water system operated within the rated capacity specified in the MDWL, 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 subsystem(s) can be found in Table 8, Table 10, Table 12, Table 14, Table 16 and Table 18. 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

|  |                              |
|--|------------------------------|
| <b>Permit to Take Water Number (PTTW):</b>               | P-300-1082818689             |
| <b>Allowable Maximum Raw Water Volume - Well PW1:</b>    | 1,642.00 m <sup>3</sup> /day |
| <b>Allowable Maximum Raw Water Flowrate - Well PW1:</b>  | 19.00 L/sec                  |
| <b>Allowable Maximum Volume of Raw Water - Well PW3:</b> | 1,309.00 m <sup>3</sup> /day |
| <b>Allowable Maximum Raw Water Flowrate – Well PW3:</b>  | 15.15 L/sec                  |
| <b>Allowable Maximum Volume of Raw Water - Well PW5:</b> | 1,964.00m <sup>3</sup> /day  |
| <b>Allowable Maximum Raw Water Flowrate – Well PW5:</b>  | 22.73 L/sec                  |
| <b>Allowable Maximum Volume of Raw Water - Well PW6:</b> | 1,964.00 m <sup>3</sup> /day |
| <b>Allowable Maximum Raw Water Flowrate – Well PW6:</b>  | 22.73 L/sec                  |
| <b>Allowable Maximum Volume of Raw Water - Well PW7:</b> | 1,635.00 m <sup>3</sup> /day |
| <b>Allowable Maximum Raw Water Flowrate – Well PW7:</b>  | 18.92 L/sec                  |

|   |                              |
|---|------------------------------|
| <b>Allowable Maximum Volume of Raw Water - Well PW8:</b>                            | 1,635.00 m <sup>3</sup> /day |
| <b>Allowable Maximum Raw Water Flowrate – Well PW8:</b>                             | 18.92 L/sec                  |
| <b>Allowable Maximum Raw Water Volume for any Combination of Wells PW7 and PW8:</b> | 1,635.00 m <sup>3</sup> /day |
| <b>Allowable Maximum Raw Water Volume for any Combination of Wells:</b>             | 6,550.00 m <sup>3</sup> /day |

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 7. Raw Water (Well PW1) Monthly Average, Maximum Flow and Total Volume for 2022<sup>7A</sup>**

| Raw Water Flow – Well PW1 |                                    |                             |                                    |                             |                                |
|---------------------------|------------------------------------|-----------------------------|------------------------------------|-----------------------------|--------------------------------|
| Timeframe                 | Average Flow (m <sup>3</sup> /day) | Percent of Allowable Volume | Maximum Flow (m <sup>3</sup> /day) | Percent of Allowable Volume | Total Volume (m <sup>3</sup> ) |
| January                   | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| February                  | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| March                     | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| April                     | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| May                       | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| June                      | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| July                      | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| August                    | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| September                 | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| October                   | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| November                  | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| December                  | 217.00*                            | 13.22%                      | 279.00*                            | 16.99%                      | 868.00                         |
| <b>2022</b>               | <b>31.00</b>                       | <b>1.89%</b>                | <b>279.00</b>                      | <b>16.99%</b>               | <b>868.00</b>                  |

<sup>7A</sup> Pumphouse/Well PW1 is currently offline while rehabilitation and testing is being performed to bring the well back to its original flow rate, offline since January 2020. December 2022 flow values were for contact tank flushing and ran water to waste, distribution valve was closed during this period

A review of flow information for the reporting period indicates that the system operated within the maximum allowable daily raw water volume listed in PTTW P-300-1082818689 for Well PW1.

**Table 8. Raw Water (Well PW1) Annual and Monthly Average and Maximum Flowrates for 2022<sup>8A</sup>**

| Raw Water Flowrate – Well PW1 |                          |                          |
|-------------------------------|--------------------------|--------------------------|
| Timeframe                     | Average Flowrate (L/sec) | Maximum Flowrate (L/sec) |
| January                       | 0.00                     | 0.00                     |
| February                      | 0.00                     | 0.00                     |

| Raw Water Flowrate – Well PW1 |                          |                          |
|-------------------------------|--------------------------|--------------------------|
| Timeframe                     | Average Flowrate (L/sec) | Maximum Flowrate (L/sec) |
| March                         | 0.00                     | 0.00                     |
| April                         | 0.00                     | 0.00                     |
| May                           | 0.00                     | 0.00                     |
| June                          | 0.00                     | 0.00                     |
| July                          | 0.00                     | 0.00                     |
| August                        | 0.00                     | 0.00                     |
| September                     | 0.00                     | 0.00                     |
| October                       | 0.00                     | 0.00                     |
| November                      | 0.00                     | 0.00                     |
| December                      | 16.79                    | 18.00                    |
| <b>2022</b>                   | <b>16.79</b>             | <b>18.00</b>             |

<sup>8A</sup> Pumphouse/Well PW1 is currently offline while rehabilitation and testing is being performed to bring the well back to its original flow rate, offline since January 2020. December 2022 flow values were for contact tank flushing and ran water to waste, distribution valve was closed during this period

A review of flow information for the reporting period indicates that the system operated within the maximum allowable raw water flowrate listed in PTTW P-300-1082818689 for Well PW1.

**Table 9. Raw Water (Well PW3) Monthly Average, Maximum Flow and Total Volume for 2022<sup>9A</sup>**

| Raw Water Flow – Well PW3 |                                    |                             |                                    |                             |                                |
|---------------------------|------------------------------------|-----------------------------|------------------------------------|-----------------------------|--------------------------------|
| Timeframe                 | Average Flow (m <sup>3</sup> /day) | Percent of Allowable Volume | Maximum Flow (m <sup>3</sup> /day) | Percent of Allowable Volume | Total Volume (m <sup>3</sup> ) |
| January                   | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| February                  | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| March                     | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| April                     | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| May                       | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| June                      | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| July                      | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| August                    | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| September                 | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| October                   | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| November                  | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| December                  | 0.00                               | 0.00%                       | 0.00                               | 0.00%                       | 0.00                           |
| <b>2022</b>               | <b>0.00</b>                        | <b>0.00%</b>                | <b>0.00</b>                        | <b>0.00%</b>                | <b>0.00</b>                    |

<sup>9A</sup> Pumphouse/Well PH3 is undergoing upgrades with commissioning scheduled for 2023, has been offline since April 2020

A review of flow information for the reporting period indicates that the system operated within the maximum allowable daily raw water volume listed in PTTW P-300-1082818689 for Well PW3.

**Table 10. Raw Water (Well PW3) Annual and Monthly Average and Maximum Flowrates for 2022<sup>10A</sup>**

| Raw Water Flowrate – Well PW3 |                          |                          |
|-------------------------------|--------------------------|--------------------------|
| Timeframe                     | Average Flowrate (L/sec) | Maximum Flowrate (L/sec) |
| January                       | 0.00                     | 0.00                     |
| February                      | 0.00                     | 0.00                     |
| March                         | 0.00                     | 0.00                     |
| April                         | 0.00                     | 0.00                     |
| May                           | 0.00                     | 0.00                     |
| June                          | 0.00                     | 0.00                     |
| July                          | 0.00                     | 0.00                     |
| August                        | 0.00                     | 0.00                     |
| September                     | 0.00                     | 0.00                     |
| October                       | 0.00                     | 0.00                     |
| November                      | 0.00                     | 0.00                     |
| December                      | 0.00                     | 0.00                     |
| <b>2022</b>                   | <b>0.00</b>              | <b>0.00</b>              |

<sup>10A</sup>Pumhouse/Well PH3 is undergoing upgrades with commissioning scheduled for 2023, has been offline since April 2020

A review of flow information for the reporting period indicates that the system operated within the maximum allowable raw water flowrate listed in PTTW P-300-1082818689 for Well PW3.

**Table 11. Raw Water (Well PW5) Monthly Average, Maximum Flow and Total Volume for 2022**

| Raw Water Flow – Well PW5 |                                    |                             |                                    |                             |                                |
|---------------------------|------------------------------------|-----------------------------|------------------------------------|-----------------------------|--------------------------------|
| Timeframe                 | Average Flow (m <sup>3</sup> /day) | Percent of Allowable Volume | Maximum Flow (m <sup>3</sup> /day) | Percent of Allowable Volume | Total Volume (m <sup>3</sup> ) |
| January                   | 455.55                             | 23.19%                      | 866.14                             | 44.10%                      | 14122.01                       |
| February                  | 363.45                             | 18.51%                      | 833.72                             | 42.45%                      | 10176.53                       |
| March                     | 390.46                             | 19.88%                      | 796.00                             | 40.53%                      | 12104.38                       |
| April                     | 396.97                             | 20.21%                      | 824.00                             | 41.96%                      | 11909.00                       |
| May                       | 492.09                             | 25.06%                      | 1027.58                            | 52.32%                      | 15254.91                       |
| June                      | 340.10                             | 17.32%                      | 1027.60                            | 52.32%                      | 10203.09                       |
| July                      | 514.20                             | 26.18%                      | 1027.60                            | 52.32%                      | 15940.16                       |
| August                    | 431.89                             | 21.99%                      | 1027.60                            | 52.32%                      | 13388.60                       |
| September                 | 432.88                             | 22.04%                      | 1027.59                            | 52.32%                      | 12986.43                       |



| Raw Water Flow – Well PW5 |                                    |                             |                                    |                             |                                |
|---------------------------|------------------------------------|-----------------------------|------------------------------------|-----------------------------|--------------------------------|
| Timeframe                 | Average Flow (m <sup>3</sup> /day) | Percent of Allowable Volume | Maximum Flow (m <sup>3</sup> /day) | Percent of Allowable Volume | Total Volume (m <sup>3</sup> ) |
| October                   | 427.25                             | 21.75%                      | 775.80                             | 39.50%                      | 13244.70                       |
| November                  | 390.05                             | 19.86%                      | 812.31                             | 41.36%                      | 11701.54                       |
| December                  | 393.15                             | 20.02%                      | 717.93                             | 36.55%                      | 12187.62                       |
| <b>2022</b>               | <b>419.00</b>                      | <b>21.33%</b>               | <b>1027.60</b>                     | <b>52.32%</b>               | <b>153218.97</b>               |

A review of flow information for the reporting period indicates that the system operated within the maximum allowable daily raw water volume listed in PTTW P-300-1082818689 for Well PW5.

**Table 12. Raw Water (Well PW5) Annual and Monthly Average and Maximum Flowrates for 2022**

| Raw Water Flowrate – Well PW5 |                          |                          |
|-------------------------------|--------------------------|--------------------------|
| Timeframe                     | Average Flowrate (L/sec) | Maximum Flowrate (L/sec) |
| January                       | 12.00                    | 12.35                    |
| February                      | 11.14                    | 12.71                    |
| March                         | 9.31                     | 12.64                    |
| April                         | 10.44                    | 12.19                    |
| May                           | 11.96                    | 12.31                    |
| June                          | 9.59                     | 12.42                    |
| July                          | 11.63                    | 12.45                    |
| August                        | 11.30                    | 13.07                    |
| September                     | 11.24                    | 12.63                    |
| October                       | 10.99                    | 13.70                    |
| November                      | 11.22                    | 12.89                    |
| December                      | 12.01                    | 12.27                    |
| <b>2022</b>                   | <b>11.07</b>             | <b>13.70</b>             |

A review of flow information for the reporting period indicates that the system operated within the maximum allowable raw water flowrate listed in PTTW P-300-1082818689 for Well PW5.

**Table 13. Raw Water (Well PW6) Monthly Average, Maximum Flow and Total Volume for 2022**

| Raw Water Flow – Well PW6 |                                    |                             |                                    |                             |                                |
|---------------------------|------------------------------------|-----------------------------|------------------------------------|-----------------------------|--------------------------------|
| Timeframe                 | Average Flow (m <sup>3</sup> /day) | Percent of Allowable Volume | Maximum Flow (m <sup>3</sup> /day) | Percent of Allowable Volume | Total Volume (m <sup>3</sup> ) |
| January                   | 308.86                             | 15.73%                      | 731.62                             | 37.25%                      | 9574.68                        |
| February                  | 382.01                             | 19.45%                      | 983.44                             | 50.07%                      | 10696.22                       |

| <b>Raw Water Flow – Well PW6</b> |   |                                    |   |                                    |                                     |
|----------------------------------|---|------------------------------------|---|------------------------------------|-------------------------------------|
| <b>Timeframe</b>                 | <b>Average Flow (m<sup>3</sup>/day)</b> | <b>Percent of Allowable Volume</b> | <b>Maximum Flow (m<sup>3</sup>/day)</b> | <b>Percent of Allowable Volume</b> | <b>Total Volume (m<sup>3</sup>)</b> |
| March                            | 329.97                                  | 16.80%                             | 775.59                                  | 39.49%                             | 10229.14                            |
| April                            | 360.47                                  | 18.35%                             | 771.00                                  | 39.26%                             | 10814.00                            |
| May                              | 344.33                                  | 17.53%                             | 799.32                                  | 40.70%                             | 10674.09                            |
| June                             | 502.61                                  | 25.59%                             | 1027.60                                 | 52.32%                             | 15078.43                            |
| July                             | 355.45                                  | 18.10%                             | 1027.60                                 | 52.32%                             | 11018.98                            |
| August                           | 382.63                                  | 19.48%                             | 788.11                                  | 40.13%                             | 11861.57                            |
| September                        | 378.19                                  | 19.26%                             | 1025.35                                 | 52.21%                             | 11345.62                            |
| October                          | 324.34                                  | 16.51%                             | 795.86                                  | 40.52%                             | 10054.47                            |
| November                         | 366.59                                  | 18.67%                             | 756.46                                  | 38.52%                             | 10997.79                            |
| December                         | 369.77                                  | 18.83%                             | 684.94                                  | 34.87%                             | 11462.96                            |
| <b>2022</b>                      | <b>367.10</b>                           | <b>18.69%</b>                      | <b>1027.60</b>                          | <b>52.32%</b>                      | <b>133807.96</b>                    |

A review of flow information for the reporting period indicates that the system operated within the maximum allowable daily raw water volume listed in PTTW P-300-1082818689 for Well PW6.

**Table 14. Raw Water (Well PW6) Annual and Monthly Average and Maximum Flowrates for 2022**

| <b>Raw Water Flowrate – Well PW6</b> |                                 |                                 |
|--------------------------------------|---------------------------------|---------------------------------|
| <b>Timeframe</b>                     | <b>Average Flowrate (L/sec)</b> | <b>Maximum Flowrate (L/sec)</b> |
| January                              | 10.43                           | 12.24                           |
| February                             | 10.68                           | 12.00                           |
| March                                | 10.03                           | 12.05                           |
| April                                | 8.80                            | 12.21                           |
| May                                  | 10.02                           | 12.03                           |
| June                                 | 11.19                           | 12.11                           |
| July                                 | 10.11                           | 13.86                           |
| August                               | 10.84                           | 12.40                           |
| September                            | 10.40                           | 12.44                           |
| October                              | 10.07                           | 12.54                           |
| November                             | 11.19                           | 12.21                           |
| December                             | 11.19                           | 12.27                           |
| <b>2022</b>                          | <b>10.41</b>                    | <b>13.86</b>                    |

A review of flow information for the reporting period indicates that the system operated within the maximum allowable raw water flowrate listed in PTTW P-300-1082818689 for Well PW6.

**Table 15. Raw Water (Well PW7) Monthly Average, Maximum Flow and Total Volume for 2022**

| Raw Water Flow – Well PW7 |                                    |                             |                                    |                             |                                |
|---------------------------|------------------------------------|-----------------------------|------------------------------------|-----------------------------|--------------------------------|
| Timeframe                 | Average Flow (m <sup>3</sup> /day) | Percent of Allowable Volume | Maximum Flow (m <sup>3</sup> /day) | Percent of Allowable Volume | Total Volume (m <sup>3</sup> ) |
| January                   | 677.83                             | 41.46%                      | 1553.44                            | 95.01%                      | 21012.73                       |
| February                  | 637.70                             | 39.00%                      | 1553.45                            | 95.01%                      | 17855.51                       |
| March                     | 832.42                             | 50.91%                      | 1555.00                            | 95.11%                      | 25805.14                       |
| April                     | 675.73                             | 41.33%                      | 1555.00                            | 95.11%                      | 20272.00                       |
| May                       | 511.26                             | 31.27%                      | 1553.55                            | 95.02%                      | 15849.07                       |
| June                      | 637.50                             | 38.99%                      | 1553.57                            | 95.02%                      | 19124.88                       |
| July                      | 681.65                             | 41.69%                      | 1553.47                            | 95.01%                      | 21131.16                       |
| August                    | 812.31                             | 49.68%                      | 1553.56                            | 95.02%                      | 25181.60                       |
| September                 | 638.73                             | 39.07%                      | 1553.45                            | 95.01%                      | 19161.82                       |
| October                   | 686.10                             | 41.96%                      | 1553.44                            | 95.01%                      | 21269.15                       |
| November                  | 609.07                             | 37.25%                      | 1270.11                            | 77.68%                      | 18272.20                       |
| December                  | 557.58                             | 34.10%                      | 1053.02                            | 64.40%                      | 17284.87                       |
| <b>2022</b>               | <b>663.16</b>                      | <b>40.56%</b>               | <b>1555.00</b>                     | <b>95.11%</b>               | <b>242220.13</b>               |

A review of flow information for the reporting period indicates that the system operated within the maximum allowable daily raw water volume listed in PTTW P-300-1082818689 for Well PW7.

**Table 16. Raw Water (Well PW7) Annual and Monthly Average and Maximum Flowrates for 2022**

| Raw Water Flowrate – Well PW7 |                          |                          |
|-------------------------------|--------------------------|--------------------------|
| Timeframe                     | Average Flowrate (L/sec) | Maximum Flowrate (L/sec) |
| January                       | 14.64                    | 18.28                    |
| February                      | 15.54                    | 18.22                    |
| March                         | 16.40                    | 18.59                    |
| April                         | 15.15                    | 18.90                    |
| May                           | 12.81                    | 18.24                    |
| June                          | 13.32                    | 18.25                    |
| July                          | 14.06                    | 18.30                    |
| August                        | 15.25                    | 18.47                    |
| September                     | 15.73                    | 18.32                    |
| October                       | 17.00                    | 18.73                    |
| November                      | 16.95                    | 18.53                    |
| December                      | 16.41                    | 18.28                    |
| <b>2022</b>                   | <b>15.27</b>             | <b>18.90</b>             |

A review of flow information for the reporting period indicates that the system operated within the maximum allowable raw water flowrate listed in PTTW P-300-1082818689 for Well PW7.

**Table 17. Raw Water (Well PW8) Monthly Average, Maximum Flow and Total Volume for 2022**

| <b>Raw Water Flow – Well PW8</b> |   |                                    |   |                                    |                                     |
|----------------------------------|---|------------------------------------|---|------------------------------------|-------------------------------------|
| <b>Timeframe</b>                 | <b>Average Flow (m<sup>3</sup>/day)</b> | <b>Percent of Allowable Volume</b> | <b>Maximum Flow (m<sup>3</sup>/day)</b> | <b>Percent of Allowable Volume</b> | <b>Total Volume (m<sup>3</sup>)</b> |
| January                          | 737.36                                  | 45.10%                             | 1553.44                                 | 95.01%                             | 22858.22                            |
| February                         | 692.94                                  | 42.38%                             | 1553.38                                 | 95.01%                             | 19402.25                            |
| March                            | 477.63                                  | 29.21%                             | 1555.00                                 | 95.11%                             | 14806.41                            |
| April                            | 666.37                                  | 40.76%                             | 1554.00                                 | 95.05%                             | 19991.00                            |
| May                              | 926.50                                  | 56.67%                             | 1553.52                                 | 95.02%                             | 28721.64                            |
| June                             | 832.49                                  | 50.92%                             | 1553.53                                 | 95.02%                             | 24974.55                            |
| July                             | 776.86                                  | 47.51%                             | 1553.45                                 | 95.01%                             | 24082.74                            |
| August                           | 615.99                                  | 37.68%                             | 1553.48                                 | 95.01%                             | 19095.72                            |
| September                        | 738.48                                  | 45.17%                             | 1553.46                                 | 95.01%                             | 22154.34                            |
| October                          | 616.45                                  | 37.70%                             | 1303.48                                 | 79.72%                             | 19109.81                            |
| November                         | 712.23                                  | 43.56%                             | 1553.41                                 | 95.01%                             | 21366.91                            |
| December                         | 741.76                                  | 45.37%                             | 1553.44                                 | 95.01%                             | 22994.49                            |
| <b>2022</b>                      | <b>711.25</b>                           | <b>43.50%</b>                      | <b>1555.00</b>                          | <b>95.11%</b>                      | <b>259558.08</b>                    |

A review of flow information for the reporting period indicates that the system operated within the maximum allowable daily raw water volume listed in PTTW P-300-1082818689 for Well PW8.

**Table 18. Raw Water (Well PW8) Annual and Monthly Average and Maximum Flowrates for 2022**

| <b>Raw Water Flowrate – Well PW8</b> |                                 |                                 |
|--------------------------------------|---------------------------------|---------------------------------|
| <b>Timeframe</b>                     | <b>Average Flowrate (L/sec)</b> | <b>Maximum Flowrate (L/sec)</b> |
| January                              | 14.64                           | 18.22                           |
| February                             | 16.85                           | 18.27                           |
| March                                | 14.62                           | 18.25                           |
| April                                | 13.91                           | 18.24                           |
| May                                  | 16.31                           | 18.28                           |
| June                                 | 15.74                           | 18.25                           |
| July                                 | 14.09                           | 18.72                           |
| August                               | 14.08                           | 18.36                           |
| September                            | 16.36                           | 18.58                           |
| October                              | 15.84                           | 18.61                           |

| <b>Raw Water Flowrate – Well PW8</b> |                                     |                                     |
|--------------------------------------|-------------------------------------|-------------------------------------|
| <b>Timeframe</b>                     | <b>Average Flowrate<br/>(L/sec)</b> | <b>Maximum Flowrate<br/>(L/sec)</b> |
| November                             | 16.96                               | 18.38                               |
| December                             | 18.16                               | 18.46                               |
| <b>2022</b>                          | <b>15.63</b>                        | <b>18.72</b>                        |

A review of flow information for the reporting period indicates that the system operated within the maximum allowable raw water flowrate listed in PTTW P-300-1082818689 for Well PW8.

**Table 19. Raw Water Monthly Average, Maximum Flow and Total Volume of the Combination of Well 7 and Well 8 (Well PW7 and Well PW8) for 2022<sup>19A</sup>**

| <b>Raw Water Flow – Wells 7 and Well 8 (Well PW7, Well PW8)</b> |   |  |   |  |   |
|---|---|--|---|--|---|
| <b>Timeframe</b>  | <b>Average Flow<br/>(m<sup>3</sup>/day)</b> | <b>Percent of Allowable Volume<sup>19A</sup></b> | <b>Maximum Flow<br/>(m<sup>3</sup>/day)</b> | <b>Percent of Allowable Volume<sup>19A</sup></b> | <b>Total Volume<br/>(m<sup>3</sup>)</b> |
| January   | 707.60                                      | 43.28%   | 1553.44                                     | 95.01%   | 43870.95                                |
| February  | 665.32                                      | 40.69%   | 1553.45                                     | 95.01%   | 37257.76                                |
| March   | 655.03                                      | 40.06%   | 1555.00                                     | 95.11%   | 40611.55                                |
| April   | 671.05                                      | 41.04%   | 1555.00                                     | 95.11%   | 40263.00                                |
| May   | 718.88                                      | 43.97%   | 1553.55                                     | 95.02%   | 44570.71                                |
| June  | 735.00                                      | 44.95%   | 1553.57                                     | 95.02%   | 44099.43                                |
| July  | 729.26                                      | 44.60%   | 1553.47                                     | 95.01%   | 45213.90                                |
| August  | 714.15                                      | 43.68%   | 1553.56                                     | 95.02%   | 44277.32                                |
| September   | 688.61                                      | 42.12%   | 1553.46                                     | 95.01%   | 41316.16                                |
| October   | 651.28                                      | 39.83%   | 1553.44                                     | 95.01%   | 40378.96                                |
| November  | 660.65                                      | 40.41%   | 1553.41                                     | 95.01%   | 39639.11                                |
| December  | 649.67                                      | 39.74%   | 1553.44                                     | 95.01%   | 40279.36                                |
| <b>2022</b>   | <b>687.21</b>                               | <b>42.03%</b>                                    | <b>1555.00</b>                              | <b>95.11%</b>                                    | <b>501778.21</b>                        |

<sup>19A</sup>Based on an allowable volume of 1,635,000 m<sup>3</sup>/day as stipulated in PTTW P-300-1082818689 for the period of January 1, 2022 to December 31, 2022

A review of flow information for the reporting period indicates that the system operated within the maximum allowable daily taking of water listed in PTTW P-300-1082818689 for the combination of well PW7 and well PW8.

**Table 20. Raw Water Monthly Average, Maximum Flow and Total Volume of any Combination of Wells (Well PW1, Well PW3, Well PW 5, Well PW 6, Well PW7 and Well PW8) for 2022<sup>20A</sup>**

| <b>Raw Water Flow – Any Combination of Wells (Well PW1, Well PW3, Well PW 5, Well PW 6, Well PW7, Well PW8)</b> |   |  |   |  |                                     |
|---|---|--|---|--|-------------------------------------|
| <b>Timeframe</b>  | <b>Average Flow (m<sup>3</sup>/day)</b> | <b>Percent of Allowable Volume<sup>20A</sup></b> | <b>Maximum Flow (m<sup>3</sup>/day)</b> | <b>Percent of Allowable Volume<sup>20A</sup></b> | <b>Total Volume (m<sup>3</sup>)</b> |
| January   | 435.92                                  | 6.66%  | 1553.44                                 | 23.72%   | 67567.64                            |
| February  | 415.22                                  | 6.34%  | 1553.45                                 | 23.72%   | 58130.51                            |
| March   | 406.10                                  | 6.20%  | 1555.00                                 | 23.74%   | 62945.07                            |
| April   | 419.91                                  | 6.41%  | 1555.00                                 | 23.74%   | 62986.00                            |
| May   | 454.84                                  | 6.94%  | 1553.55                                 | 23.72%   | 70499.71                            |
| June  | 462.54                                  | 7.06%  | 1553.57                                 | 23.72%   | 69380.95                            |
| July  | 465.63                                  | 7.11%  | 1553.47                                 | 23.72%   | 72173.04                            |
| August  | 448.56                                  | 6.85%  | 1553.56                                 | 23.72%   | 69527.49                            |
| September   | 437.66                                  | 6.68%  | 1553.46                                 | 23.72%   | 65648.21                            |
| October   | 410.83                                  | 6.27%  | 1553.44                                 | 23.72%   | 63678.13                            |
| November  | 415.59                                  | 6.34%  | 1553.41                                 | 23.72%   | 62338.44                            |
| December  | 515.57                                  | 7.87%  | 1553.44                                 | 23.72%   | 64797.94                            |
| <b>2022</b>   | <b>438.30</b>                           | <b>6.69%</b>                                     | <b>1555.00</b>                          | <b>23.74%</b>                                    | <b>789673.14</b>                    |

<sup>20A</sup>Based on an allowable volume of 6,550.000 m<sup>3</sup>/day as stipulated in PTTW P-300-1082818689 for the period of January 1, 2022 to December 31, 2022

A review of flow information for the reporting period indicates that the system operated within the maximum allowable daily taking of water listed in PTTW P-300-1082818689 for any combination of wells.