

2024 SCHEDULE 22 SUMMARY REPORT

PHELPSTON
DRINKING WATER
SYSTEM



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

Prepared for the Corporation of the Township of Springwater 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:	260048282
Drinking-Water System Name:	Phelpston Drinking Water System
Drinking-Water System Owner:	The Corporation of the Township of Springwater
Drinking-Water System Category:	Small 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 August 22, 2024 for the period covering September 7, 2023 to August 22, 2024. On October 11, 2024 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 a 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 Phelpston Drinking Water System Annual Report (Section 11).

2. Assessment of Flowrates and Quantity of Water Supplied

The following tables (Table 3 to 7) 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):	128-109 (Issue Number: 4)
Allowable Rated Capacity:	656 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	52.74	8.04%	73.00	11.13%	1635.00
February	47.55	7.25%	58.00	8.84%	1379.00
March	46.00	7.01%	63.00	9.60%	1426.00
April	56.40	8.60%	147.00	22.41%	1692.00
May	63.74	9.72%	93.00	14.18%	1976.00
June	64.87	9.89%	106.00	16.16%	1946.00
July	61.23	9.33%	91.00	13.87%	1898.00
August	61.65	9.40%	85.00	12.96%	1911.00
September	61.27	9.34%	79.00	12.04%	1838.00
October	56.71	8.64%	156.00	23.78%	1758.00
November	49.43	7.54%	84.00	12.80%	1483.00
December	51.26	7.81%	64.00	9.76%	1589.00
2024	56.07	8.55%	156.00	23.78%	20531.00

A review of flow information for the reporting period indicates that the drinking water system operated within the rated capacity specified in the MDWL (656 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, and Table 7. 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):	0532-999HXL 5307-CZ5RE5
Allowable Maximum Raw Water Volume - Well No. 1:	547.20 m ³ /day
Allowable Maximum Raw Water Flowrate - Well No. 1:	378 L/min (6.33 L/sec)
Allowable Maximum Volume of Raw Water - Well No. 2:	655.20 m ³ /day
Allowable Maximum Raw Water Flowrate – Well No. 2:	456 L/sec (7.6 L/sec)

During the reporting period Phelpston Drinking Water System operated under two separate PTTWs:

- From January 1 to January 3, 2024: Phelpston DWS operated under PTTW #0532-999HXL, which was set to expire on December 31, 2023. Under the approval of the MECP, PTTW #0532-999HXL was to remain in effect until a determination on the PTTW renewal could be made.
- From January 3, 2024 to the end of the reporting period: Phelpston DWS operated under PTTW #5307-CZ5RE5 as the new PTTW was issued. Upon issuance, PTTW #5307-CZ5RE5 was backdated to December 31, 2023. There were no changes to the raw water allowable maximum volume takings or flowrates. There was no change in the allowable maximum combined raw water volume from all wells.

As per both PTTWs, 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 No. 1) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Well No. 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	56.35	10.30%	67.00	12.24%	958.00
February	41.32	7.55%	64.00	11.70%	785.00
March	46.12	8.43%	77.00	14.07%	784.00
April	54.00	9.87%	62.00	11.33%	972.00
May	56.62	10.35%	77.00	14.07%	1189.00
June	48.37	8.84%	91.00	16.63%	1112.46
July	55.89	10.21%	121.00	22.11%	1006.00
August	50.05	9.15%	72.00	13.16%	1051.00
September	61.59	11.26%	125.00	22.84%	1047.00

Raw Water Flow – Well No. 1					
Timeframe	Average Flow (m³/day)	Percent of Allowable Volume	Maximum Flow (m³/day)	Percent of Allowable Volume	Total Volume (m³)
October	50.32	9.20%	64.00	11.70%	956.00
November	44.10	8.06%	65.00	11.88%	882.00
December	43.05	7.87%	81.00	14.80%	947.00
2024	50.65	9.26%	125.00	22.84%	11689.46

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 No. 1 (547.20 m³/day).

Table 5. Raw Water (Well No. 1) Annual and Monthly Maximum Flowrates for 2024

Raw Water Flowrate – Well No. 1	
Timeframe	Maximum Flowrate (L/sec)
January	6.27
February	6.28
March	6.28
April	6.30
May	6.29
June	6.27
July	6.25
August	6.22
September	6.22
October	6.22
November	6.21
December	6.23
2024	6.30

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 No. 1 (6.33 L/sec).

Table 6. Raw Water (Well No. 2) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Well No. 2					
Timeframe	Average Flow (m ³ /day)	Percent of Allowable Volume	Maximum Flow (m ³ /day)	Percent of Allowable Volume	Total Volume (m ³)
January	47.24	7.21%	61.00	9.31%	803.00
February	42.75	6.52%	60.00	9.16%	684.00
March	39.06	5.96%	56.00	8.55%	703.00
April	53.67	8.19%	113.00	17.25%	805.00
May	43.84	6.69%	70.00	10.68%	920.60
June	51.37	7.84%	62.00	9.46%	976.00
July	49.35	7.53%	63.00	9.62%	987.00
August	53.89	8.22%	97.00	14.80%	970.00
September	49.44	7.55%	62.00	9.46%	890.00
October	54.63	8.34%	121.00	18.47%	874.00
November	41.44	6.33%	58.00	8.85%	746.00
December	40.00	6.11%	59.00	9.00%	760.00
2024	47.22	7.21%	121.00	18.47%	10118.60

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 No. 2 (655.20 m³/day).

Table 7. Raw Water (Well No. 2) Annual and Monthly Maximum Flowrates for 2024

Raw Water Flowrate – Well No. 2	
Timeframe	Maximum Flowrate (L/sec)
January	6.43
February	6.52
March	6.56
April	6.60
May	6.62
June	6.55
July	6.51
August	6.39
September	6.37
October	6.30
November	6.46
December	6.60
2024	6.62

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 No. 2 (7.6 L/sec).