2024 SCHEDULE 22 SUMMARY REPORT

EVERETT DRINKING WATER SYSTEM

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

Prepared for the Corporation of the Township of Adjala-Tosorontio 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:	220004064
Drinking-Water System Name:	Everett Drinking Water System
Drinking-Water System Owner:	The Corporation of the Township of Adjala-Tosorontio
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 May 15, 2024 for the period covering April 20, 2023 to May 15, 2024. On July 18, 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
O.Reg 170/03 S. 7-3(1) Turbidity – Ballpark Production Well (PW #1-90); a monthly raw water turbidity sample is required to be taken from each well supplying the system. In November 2024, a monthly raw water turbidity sample was not taken. • The last monthly raw water turbidity sample was taken for the	**N/A**	• During the month of November, 2024 from November 4 to December 4, 2024 the Ballpark Production well remained offline for maintenance and well repairs • Repairs to the Production Well were completed on December 4, 2024 by IWS.

Ballpark Production Well (PW #1-90) on October 1, 2024 • Operations staff had intended to take the next monthly turbidity sample at the beginning of November, 2024 as required, however due to unforeseen well issues and subsequent required repairs; the well was taken offline on November 4, 2024 (the first business day of the month).		• A monthly raw water turbidity test was completed on December 16, 2024 • Verbal and written notification was provided to MECP on November 20 and 21, 2024 respectively. • No further actions required.

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

2. Assessment of Flowrates and Quantity of Water Supplied

The following tables (Table 3 to 10) 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):	097-102 (Issue Number: 4)
Allowable Rated Capacity for Grohal Pumphouse:	1,958 m^3/day
Allowable Rated Capacity for Ballpark Pumphouse:	1,958 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 Grohal Pumphouse in 2024

Treated Water Flow- Grohal Pumphouse[3A]					
Timeframe	**Average Flow (m^3/day)**	**Percent of Rated Capacity**	**Maximum Flow (m^3/day)**	**Percent of Rated Capacity**	**Total Volume (m^3)**
January	174.83	8.93%	439.93	22.47%	5,244.89
February	153.12	7.82%	430.17	21.97%	4,440.54
March	201.30	10.28%	543.01	27.73%	6,240.19
April	200.05	10.22%	474.03	24.21%	6,001.56
May	183.68	9.38%	564.22	28.82%	5,694.15
June	158.32	8.09%	530.96	27.12%	4,749.53
July	188.46	9.63%	532.01	27.17%	5,842.34
August	293.48	14.99%	523.02	26.71%	9,097.85
September	154.78	7.90%	511.72	26.13%	4,643.28
October	188.78	9.64%	501.43	25.61%	5,852.21
November	344.84	17.61%	478.38	24.43%	10,345.13
December	289.92	14.81%	861.18	43.98%	8,987.42
2024	**211.34**	**10.79%**	**861.18**	**43.98%**	**77,139.09**

[3A]Treated water flow and flowrate data for Grohal Pumphouse is based off the raw water flow and flowrate data for Grohal Production Well (PW# 1-88). There is only one set of pumps responsible for the raw water taking, water that flows into the treatment system and water that flows from the treatment system into the distribution system.

A review of flow information for the reporting period indicates that the Grohal Pumphouse operated within the rated capacity specified in the MDWL (1,958 m^3/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 Grohal Pumphouse treatment subsystem can be found in Table 6. The applicable MDWL for the reporting period did not list a maximum allowable limit for the flowrate of water that flows into the treatment subsystem at Grohal Pumphouse.

Table 4. Treated Water Annual and Monthly Average and Maximum Flows with Comparison to Rated Capacity and Total Volume for Ballpark Pumphouse in 2024

Treated Water Flow- Ballpark Pumphouse[4A]					
Timeframe	**Average Flow (m^3/day)**	**Percent of Rated Capacity**	**Maximum Flow (m^3/day)**	**Percent of Rated Capacity**	**Total Volume (m^3)**
January[4B]	155.10	7.92%	380.23	19.42%	4,808.14
February	177.55	9.07%	410.49	20.96%	5,148.96
March	140.58	7.18%	460.29	23.51%	4,357.85
April	136.63	6.98%	434.93	22.21%	4,098.97
May	196.27	10.02%	508.52	25.97%	6,084.33
June	226.72	11.58%	459.63	23.47%	6,801.69
July	157.65	8.05%	440.05	22.47%	4,887.22
August	81.23	4.15%	425.45	21.73%	2,518.19
September	228.74	11.68%	459.39	23.46%	6,862.05
October	176.97	9.04%	416.21	21.26%	5,485.96
November	32.46	1.66%	440.01	22.47%	973.76
December	25.22	1.29%	316.65	16.17%	781.82
2024	**144.29**	**7.37%**	**508.52**	**25.97%**	**52,808.94**

[4A]Treated water flow and flowrate data for Ballpark Pumphouse is based off the raw water flow and flowrate data for Ballpark Production Well (PW#1-90). There is only one set of pumps responsible for the raw water taking, water that flows into the treatment system and water that flows from the treatment system into the distribution system.

A review of flow information for the reporting period indicates that the Ballpark Pumphouse operated within the rated capacity specified in the MDWL (1,958 m^3/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 Ballpark Pumphouse treatment subsystem is in Table 10. The applicable MDWL for the reporting period did not list a maximum allowable limit for the flowrate of water that flows into the treatment subsystem at Ballpark Pumphouse.

2.2 Raw Water

Permit to Take Water Number (PTTW):	4367-93XLP4
Allowable Maximum Raw Water Volume – Grohal Production Well/ PW# 1-88:	1,960.00 m^3/day
Allowable Maximum Raw Water Flowrate – Grohal Production Well/ PW# 1-88:	1,360 L/min (22.67 L/sec)
Allowable Maximum Volume of Raw Water – Grohal Standby Well/ PW#3-78:	950 m^3/day
Allowable Maximum Raw Water Flowrate – Grohal Standby Well/ PW#3-78:	660 L/min (1.10 L/sec)
Allowable Maximum Volume of Raw Water – Ballpark Production Well/ PW#1-90:	1,960.00 m^3/day
Allowable Maximum Raw Water Flowrate – Ballpark Production Well/ PW#1-90:	1,362 L/min (22.70 L/sec)

Permit to Take Water Number (PTTW):	8257-CNGT5S
Allowable Maximum Raw Water Volume – Grohal Production Well/ PW# 1-88:	1,960.00 m^3/day
Allowable Maximum Raw Water Flowrate – Grohal Production Well/ PW# 1-88:	1,360 L/min (22.67 L/sec)
Allowable Maximum Volume of Raw Water – Grohal Standby Well/ PW#3-78:	950 m^3/day
Allowable Maximum Raw Water Flowrate – Grohal Standby Well/ PW#3-78:	660 L/min (1.10 L/sec)
Allowable Maximum Volume of Raw Water – Ballpark Production Well/ PW#1-90:	1,960.00 m^3/day
Allowable Maximum Raw Water Flowrate – Ballpark Production Well/ PW#1-90:	1,362 L/min (22.70 L/sec)

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

- From January 1 to February 27, 2024: Everett DWS operated under PTTW #4367-93XLP4, which was set to expire on January 31, 2023. On January 19, 2023 an extension letter was provided by the Ministry, which indicated that, PTTW #4367-93XLP4 was to remain in effect until a determination on the PTTW renewal was made.
- From February 28, 2024 to the end of the reporting period: Everett DWS operated under PTTW #8257-CNGT5S as the new PTTW was issued. Upon issuance, PTTW #8257-CNGT5S was backdated to January 31, 2023. There were no changes to the raw water allowable maximum volume takings or flowrates.

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 5. Raw Water (Grohal Production Well/ PW# 1-88) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Grohal Production Well- PW 1-88					
Timeframe	**Average Flow (m^3/day)**	**Percent of Allowable Volume**	**Maximum Flow (m^3/day)**	**Percent of Allowable Volume**	**Total Volume (m^3)**
January	174.83	8.92%	439.93	22.45%	5,244.89
February	153.12	7.81%	430.17	21.95%	4,440.54
March	201.30	10.27%	543.01	27.70%	6,240.19
April	200.05	10.21%	474.03	24.19%	6,001.56
May	183.68	9.37%	564.22	28.79%	5,694.15
June	158.32	8.08%	530.96	27.09%	4,749.53
July	188.46	9.62%	532.01	27.14%	5,842.34
August	293.48	14.97%	523.02	26.68%	9,097.85
September	154.78	7.90%	511.72	26.11%	4,643.28
October	188.78	9.63%	501.43	25.58%	5,852.21
November	344.84	17.59%	478.38	24.41%	10,345.13
December	289.92	14.79%	861.18	43.94%	8,987.42
2024	**211.34**	**10.78%**	**861.18**	**43.94%**	**77,139.09**

A review of flow information for the reporting period indicates that the Grohal Production well (PW 1-88) operated within the PTTW's maximum allowable daily raw water volume (1,960.00 m^3/day).

Table 6. Raw Water (Grohal Production Well/ PW# 1-88) Annual and Monthly Average and Maximum Flowrates for 2024

Raw Water Flowrate – Grohal Production Well- PW 1-88		
Timeframe	**Average Flowrate (L/sec)**	**Maximum Flowrate (L/sec)**
January	16.15	21.25
February	15.52	21.26
March	16.63	21.32
April	17.99	21.50
May	16.89	21.52
June	15.74	75.00[6A]
July	16.02	21.38
August	16.60	21.29
September	16.10	21.18
October	17.15	21.28
November	17.90	21.22
December	16.38	21.14
2024	**16.59**	**75.00[6A]**

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable raw water flowrate (22.67 L/sec) for the Grohal Production Well (PW 1-88) with the exception of:

- [6A]June 19, 2024 – maximum flowrate exceedance was a result of annual flowmeter calibrations.

Table 7. Raw Water (Grohal Standby Well- PW #3-78) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Grohal Standby Well (PW #3-78)					
Timeframe	**Average Flow (m^3/day)**	**Percent of Allowable Volume**	**Maximum Flow (m^3/day)**	**Percent of Allowable Volume**	**Total Volume (m^3)**
January	0.47	0.05%	4.14	0.44%	14.70
February	0.57	0.06%	4.53	0.48%	16.56
March	0.34	0.04%	2.96	0.31%	10.56
April	0.48	0.05%	4.79	0.50%	14.52
May	0.27	0.03%	2.32	0.24%	8.40
June	0.47	0.05%	4.56	0.48%	14.18
July	0.40	0.04%	3.09	0.33%	12.47
August	0.54	0.06%	6.95	0.73%	16.88
September	0.45	0.05%	5.09	0.54%	13.42
October	0.43	0.05%	4.79	0.50%	13.20
November	0.63	0.07%	6.75	0.71%	18.84
December	0.66	0.07%	9.50	1.00%	20.43
2024	**0.48**	**0.05%**	**9.50**	**1.00%**	**174.16**

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable daily raw water volume (950 m^3/day) for Grohal Standby Well (PW #3-78). The raw water from this well flows to waste and is not sent to the treatment or distribution system.

Table 8. Raw Water Grohal (Standby Well- PW #3-78) Annual and Monthly Average and Maximum Flowrates for 2024

Raw Water Flowrate – Grohal Standby Well (PW #3-78)		
Timeframe	**Average Flowrate (L/sec)**	**Maximum Flowrate (L/sec)**
January	1.88	10.32[8A]
February	2.33	10.32[8A]
March	1.38	10.28[8A]
April	1.91	10.30[8A]
May	1.50	10.35[8A]
June	1.88	11.67[8A]

Raw Water Flowrate – Grohal Standby Well (PW #3-78)		
Timeframe	**Average Flowrate (L/sec)**	**Maximum Flowrate (L/sec)**
July	1.86	10.39[8A]
August	1.47	10.39[8A]
September	1.73	10.37[8A]
October	2.15	10.36[8A]
November	3.80	10.31[8A]
December	2.11	10.32[8A]
2024	**2.00**	**11.67**[8A]

A review of flow information for the reporting period indicates that the system operated outside of the PTTW's the maximum allowable raw water flowrate (1.10 L/sec) for Grohal Standby Well (PW #3-78) throughout the reporting period due to:

- [8A]Flowrate exceedances are attributed to infrequent well start-ups and runs. The raw water from this well flows to waste and is not sent to the treatment or distribution system.

Table 9. Raw Water (Ballpark Production Well- PW #1-90) Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Ballpark Production Well (PW #1-90)					
Timeframe	**Average Flow (m^3/day)**	**Percent of Allowable Volume**	**Maximum Flow (m^3/day)**	**Percent of Allowable Volume**	**Total Volume (m^3)**
January	155.10	7.91%	380.23	19.40%	4,808.14
February	177.55	9.06%	410.49	20.94%	5,148.96
,March	140.58	7.17%	460.29	23.48%	4,357.85
April	136.63	6.97%	434.93	22.19%	4,098.97
May	196.27	10.01%	508.52	25.94%	6,084.33
June	226.72	11.57%	459.63	23.45%	6,801.69
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August	81.23	4.14%	425.45	21.71%	2,518.19
September	228.74	11.67%	459.39	23.44%	6,862.05
October	176.97	9.03%	416.21	21.24%	5,485.96
November	32.46	1.66%	440.01	22.45%	973.76
December	25.22	1.29%	316.65	16.16%	781.82
2024	**144.29**	**7.36%**	**508.52**	**25.94%**	**52,808.94**

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable daily raw water volume (1,960.00 m^3/day) for Ballpark Production Well (PW #1-90).

Table 10. Raw Water (Ballpark Production Well- PW #1-90) Annual and Monthly Average and Maximum Flowrates for 2024

Raw Water Flowrate – Ballpark Production Well (PW #1-90)		
Timeframe	**Average Flowrate (L/sec)**	**Maximum Flowrate (L/sec)**
January	18.60	23.03[10A]
February	19.29	22.76[10B]
March	15.10	19.91
April	16.79	20.29
May	16.43	20.22
June	17.93	20.04
July	17.78	19.96
August	8.94	19.75
September	17.17	19.63
October	18.09	19.62
November	1.84	19.43
Decembe[r]	15.39	22.66
2024	**15.28**	**23.03[10A]**

A review of flow information for the reporting period indicates that the system operated within the PTTW's the maximum allowable raw water flowrate (22.70 L/sec) for Ballpark Production Well (PW #1-90) with the exception of:

- [10A]January 1, 2024- exceedance was of short duration and a result of well pump startup
- [10B]February 3, 2024- exceedance was of short duration and a result of well pump startup