North Dundas Drinking Water System

Waterworks # 210000728
System Category – Large Municipal Residential

Annual Report

Township of North Dundas

Reporting Period of January 1st – December 31st 2024

Issued: February 24, 2025

Revision: 0

Operating Authority:

OCWA
ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

This report has been prepared to satisfy the annual reporting requirements in O. Reg. 170/03 Section 11 and Schedule 22

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Report Availability

As North Dundas' Drinking Water System is considered a large municipal residential system under O. Reg. 170/03, this report must be made available to the public. It can be found at the municipal office located at 636 St. Lawrence Street, Winchester, Ontario and on the Township's website (https://www.northdundas.com).

Compliance Report Card

Compliance Event	# of Events
Ministry of Environment Inspections	MECP Inspection – February 1, 2024 – No actions required MECP Inspection – October 30, 2024 • Report received February 12, 2025 • 1 action required
Ministry of Labour Inspections	0
QEMS External Audit	1 (S2 Audit)
AWQI's/BWA	0/0
Non-Compliance	1
Spills	0
Watermain Breaks	0

System Process Description

Raw Source

North Dundas's Drinking Water System is supplied by a total of eight groundwater production wells located throughout the municipality.

Chesterville Well #5 is a 12.2 m deep drilled groundwater production well equipped with a submersible pump rated at 23 L/sec at 35 m total dynamic head (TDH). The well is located approximately 3.8 km west of Chesterville and 600 m north of Highway 43.

Chesterville Well #6 is a 12.2 m deep drilled groundwater production well equipped with a submersible pump rated at 30.3 L/sec at 34.1 m TDH. The well is located approximately 3.8 km west of Chesterville and 600 m north of Highway 43.

Winchester Well #1 is a 57.9 m deep drilled well equipped with a submersible pump rated at 8.7 L/s at 69.5 m TDH. The well is located in Winchester at the south end of St. Lawrence Street.

Winchester Well #5 is a 28.0 m deep drilled well equipped with a submersible pump rated at 7.6 L/s at 70 m TDH. The well is located west of Winchester, along County Road 31.

Winchester Well #6 is a 15.9 m deep drilled well equipped with a submersible pump rated at 8.3 L/s at 69.5 m TDH. The well is located west of Winchester, along Spruit Road.

Winchester Well Field #7 consists of three gravel packed wells (7a, 7b, 7c), each with a depth of 12-15 m and each equipped with a submersible pump rated at 11.4 L/s at 45 m TDH. The wells are located north east of Winchester along Thompson Road.

Treatment

Sodium hypochlorite is used for both primary and secondary disinfection. Each treatment facility has two chemical feed pumps (one duty and one standby). Water leaving each treatment facility is continuously monitored for flow and free chlorine residual.

Distribution

The distribution systems in both Chesterville and Winchester were originally constructed in 1960. Watermains installed prior to 1973 are composed of asbestos cement, while newer pipes are composed of ductile iron or PVC. The distribution system contains a total of approximately 50 kilometers of distribution piping. Chesterville and Winchester's distribution systems operate independently of one another.

Chesterville's elevated storage tank and reservoirs accommodate Chesterville's peak hour demands and fire flows. The elevated tank is fabricated entirely of steel and has a storage capacity of 568 m^3. Chesterville's below grade reservoir consists of two equally sized cells and a suction well with a total capacity of 530 m^3. A new above grade reservoir with an active mixing system was added to the system in 2024. It is fabricated of steel and has a capacity of 450 m^3. A manganese dioxide filtration system within a dedicated filtration building was also constructed at this time.

Winchester's elevated storage tank and reservoir accommodate Winchester's peak hour demands and fire flows. The elevated tank is fabricated of steel and mounted on a concrete pedestal. It has a storage capacity of 2300 m^3. The reservoir is an on-ground stainless steel baffled tank with an effective capacity of 400 m^3.

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag / Lavo

Summary of Non-Compliance

Adverse Water Quality Incidents

Date	AWQI #	Location	Problem	Details	Legislation	Corrective Action Taken
There were no incidents reported in 2024.						

Non-Compliance

Legislation	requirement(s) system failed to meet	Corrective Action	Status
Permit to Take Water (PTTW)	Exceedance of PTTW maximum flow rate on April 23, 2024	The flow rate exceedance was the result of a fluctuation in pressure caused by hydrant flushing along the Well #7 transmission line. The flow rate exceedance caused Wellfield #7 to alarm out and lock out. The station remained offline until the flushing was complete. Operational staff will ensure that Wellfield #7 remains offline while flushing of the transmission line is taking place.	Complete

Non-Compliance Identified in a Ministry Inspection

Legislation	Observation	Corrective Action	Status
DWWP	The chlorine contact simulation vessels located at the pumphouses for Well #5, Well #6, and Wellfield # 7 shall be added to Schedule A of the DWWP upon the renewal of the MDWL.	A note has been added to the renewal file to ensure this equipment is added during the MDWL renewal. A Director's Notification was already submitted to the MECP in 2023 by OCWA to have this equipment added to the descriptions.	Complete

Flows

Raw Water Flows

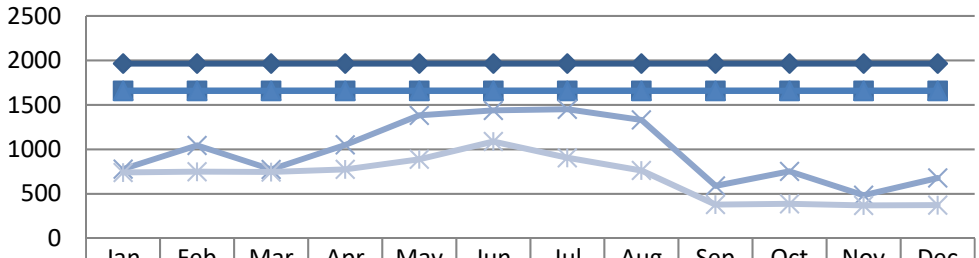
Raw water flows are regulated under the applicable Permit to Take Water (PTTW).

Chesterville Well #5 Raw Water Flows

Raw flow data for 2024 was submitted to the Ministry electronically under Permit #3380-AC3QF9. The confirmation can be found attached in Appendix A.

Chesterville Well #5 - Flows

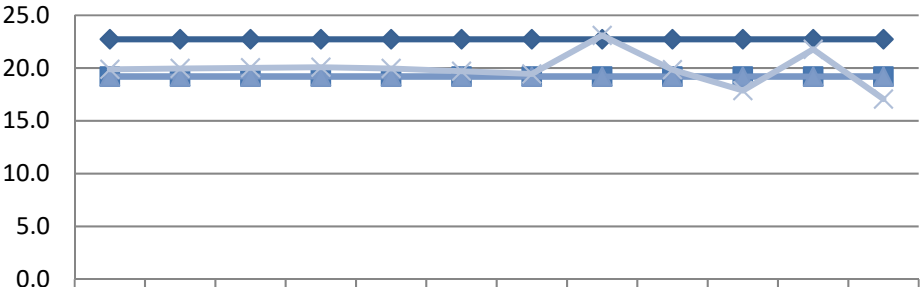
Max. Allowable Flow - PTTW



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Max Allowable (m3/d)	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964	1964
Operating Limit (m3/d)	1659	1659	1659	1659	1659	1659	1659	1659	1659	1659	1659	1659
Current Rate (m3/d)	1659	1659	1659	1659	1659	1659	1659	1659	1659	1659	1659	1659
Max Flow (m3/d)	778	1044	774	1050	1382	1438	1451	1331	589	753	484	678
Avg Flow (m3/d)	740	749	746	775	889	1088	906	762	379	387	370	373

Chesterville Well #5 - Maximum Flow Rates

Max. Allowable Rate - PTTW



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Max Allowable Rate (L/sec)	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7	22.7
Operating Limit (L/s)	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
Current Rate (L/s)	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2	19.2
Max Rate (L/s)	19.9	20.0	20.0	20.1	20.0	19.7	19.4	23.1	19.8	17.9	21.8	17.1

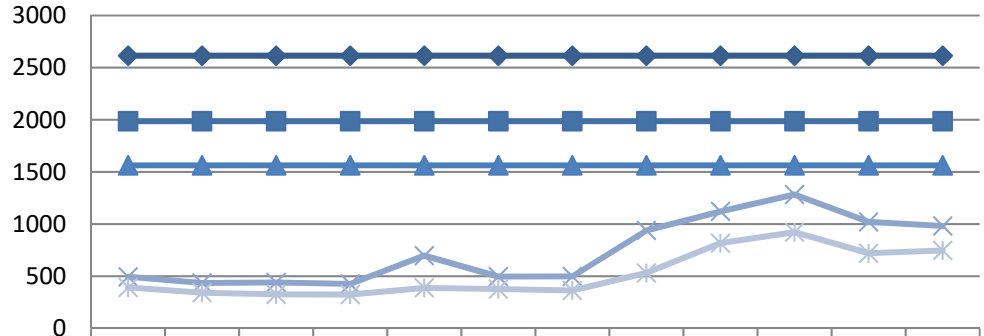
** Brief spike in flow <1 min caused by opening the valve to fill the new above grade reservoir on August 22nd*

Chesterville Well #6 Raw Water Flows

Raw flow data for 2024 was submitted to the Ministry electronically under Permit #3380-AC3QF9. The confirmation can be found attached in Appendix A.

Chesterville Well #6 - Flows

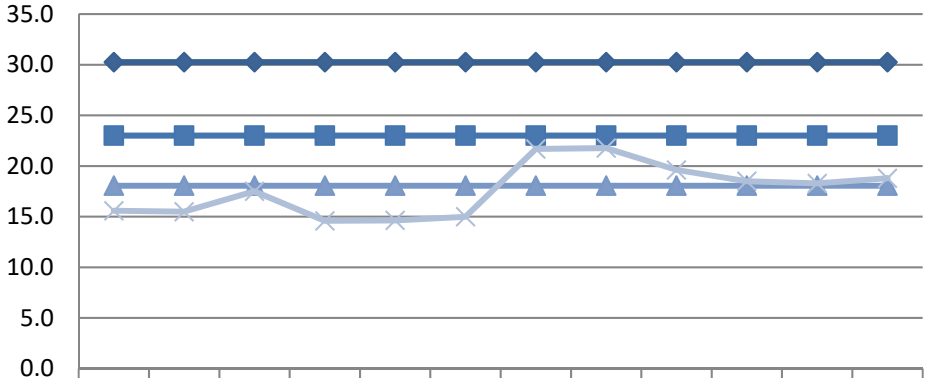
Max. Allowable Flow - PTTW



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Max Allowable (m3/d)	2615	2615	2615	2615	2615	2615	2615	2615	2615	2615	2615	2615
Operating Limit (m3/d)	1987	1987	1987	1987	1987	1987	1987	1987	1987	1987	1987	1987
Current Rate (m3/d)	1564	1564	1564	1564	1564	1564	1564	1564	1564	1564	1564	1564
Max Flow (m3/d)	496	437	441	427	698	497	499	940	1122	1284	1022	983
Avg Flow (m3/d)	393	343	327	325	389	378	365	533	818	923	721	748

Chesterville Well #6 - Maximum Flow Rates

Max. Allowable Rate - PTTW



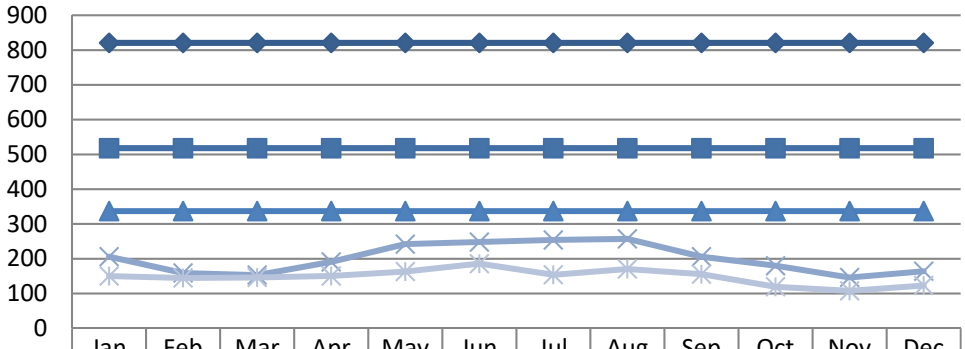
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Max Allowable Rate (L/sec)	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3	30.3
Operating Limit (L/s)	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
Current Rate (L/s)	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
Max Rate (L/s)	15.6	15.5	17.5	14.6	14.6	15.0	21.7	21.8	19.6	18.5	18.3	18.8

Winchester Well #1 Raw Water Flows

Raw flow data for 2024 was submitted to the Ministry electronically under Permit #4175-9C3GPW and Permit #4804-D28MYN. The confirmation can be found attached in Appendix A.

Winchester Well #1 - Flows

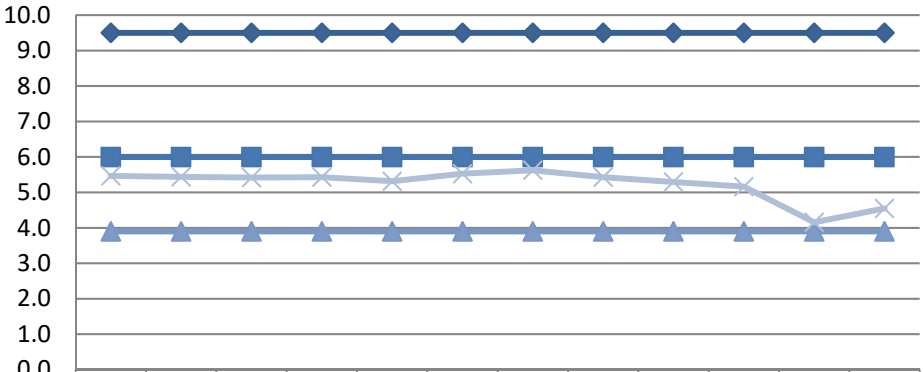
Max. Allowable Flow - PTTW



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Max Allowable (m3/d)	821	821	821	821	821	821	821	821	821	821	821	821
Operating Limit (m3/d)	518	518	518	518	518	518	518	518	518	518	518	518
Current Rate (m3/d)	337	337	337	337	337	337	337	337	337	337	337	337
Max Flow (m3/d)	206	159	153	191	242	248	254	257	206	180	146	164
Avg Flow (m3/d)	150	145	146	150	163	186	154	170	156	119	108	123

Winchester Well #1 - Maximum Flow Rates

Max. Allowable Rate - PTTW



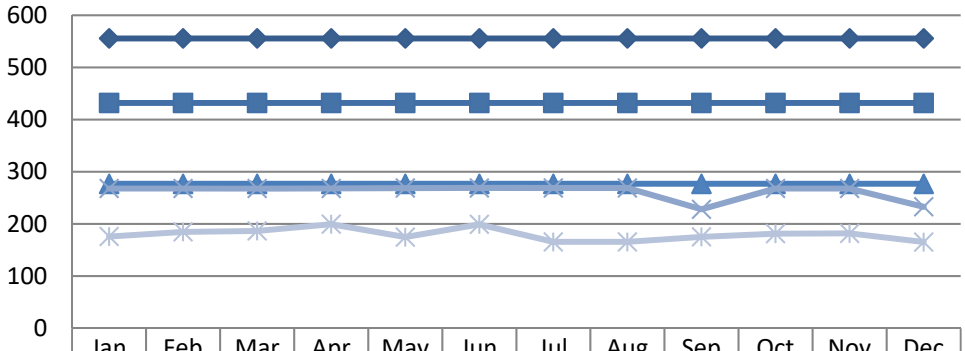
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Max Allowable Rate (L/sec)	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
Operating Limit (L/s)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Current Rate (L/s)	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
Max Rate (L/s)	5.5	5.4	5.4	5.4	5.3	5.5	5.6	5.4	5.3	5.2	4.2	4.5

Winchester Well #5 Raw Water Flows

Raw flow data for 2024 was submitted to the Ministry electronically under Permit #0276-BMYKQT. The confirmation can be found attached in Appendix A.

Winchester Well #5 - Flows

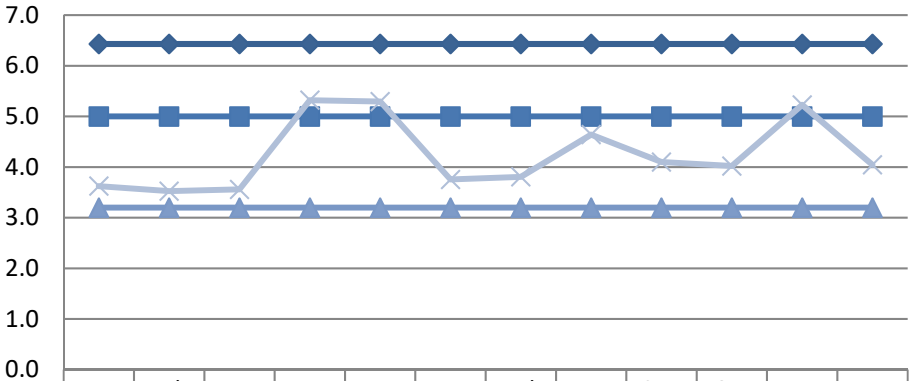
Max. Allowable Flow - PTTW



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Max Allowable (m3/d)	556	556	556	556	556	556	556	556	556	556	556	556
Operating Limit (m3/d)	432	432	432	432	432	432	432	432	432	432	432	432
Current Rate (m3/d)	277	277	277	277	277	277	277	277	277	277	277	277
Max Flow (m3/d)	268	268	268	268	269	269	269	269	228	268	268	233
Avg Flow (m3/d)	176	185	187	199	175	199	166	166	175	181	182	165

Winchester Well #5 - Maximum Flow Rates

Max. Allowable Rate - PTTW



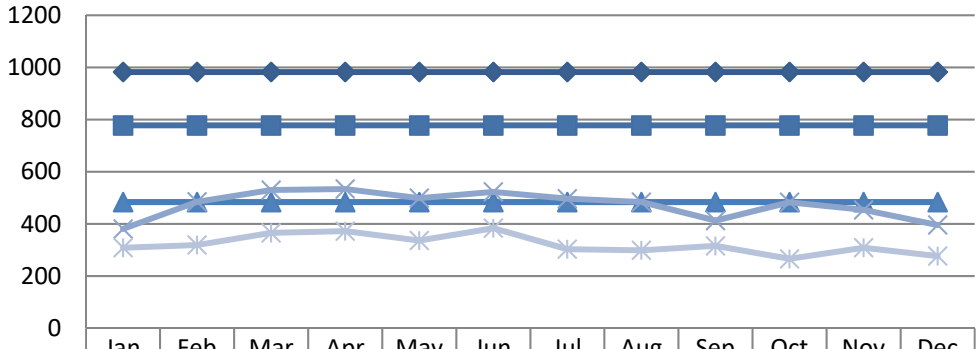
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Max Allowable Rate (L/sec)	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
Operating Limit (L/s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Current Rate (L/s)	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
Max Rate (L/s)	3.6	3.5	3.6	5.3	5.3	3.8	3.8	4.6	4.1	4.0	5.2	4.0

Winchester Well #6 Raw Water Flows

Raw flow data for 2024 was submitted to the Ministry electronically under Permit #0088-9C3JG4 and Permit #4804-D28MYN. The confirmation can be found attached in Appendix A.

Winchester Well #6 - Flows

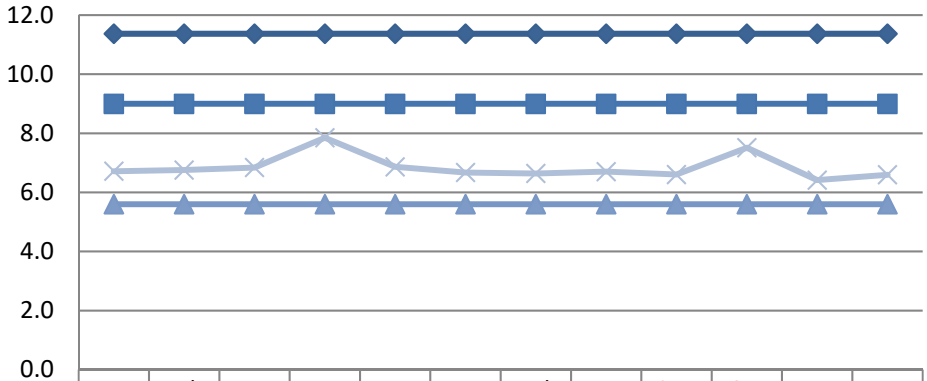
Max. Allowable Flow - PTTW



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Max Allowable (m3/d)	982	982	982	982	982	982	982	982	982	982	982	982
Operating Limit (m3/d)	778	778	778	778	778	778	778	778	778	778	778	778
Current Rate (m3/d)	484	484	484	484	484	484	484	484	484	484	484	484
Max Flow (m3/d)	381	485	530	534	499	523	497	484	413	483	454	396
Avg Flow (m3/d)	309	319	366	372	336	384	303	299	316	266	309	277

Winchester Well #6 - Maximum Flow Rates

Max. Allowable Rate - PTTW



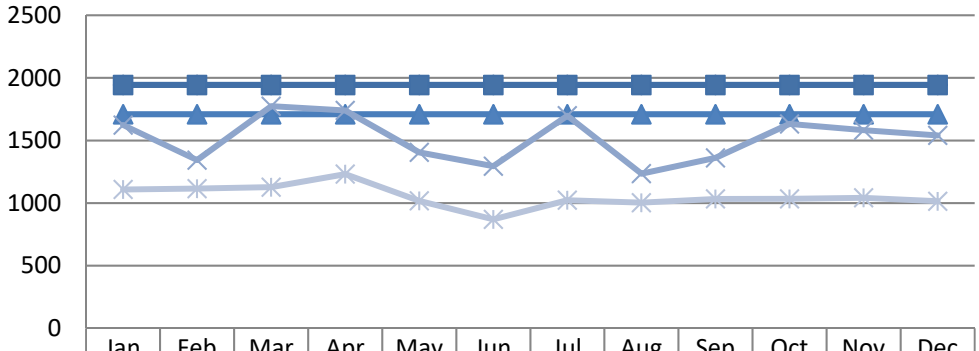
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Max Allowable Rate (L/sec)	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4
Operating Limit (L/s)	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
Current Rate (L/s)	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
Max Rate (L/s)	6.7	6.8	6.8	7.9	6.9	6.7	6.6	6.7	6.6	7.5	6.4	6.6

Well Field #7 Raw Water Flows

Raw flow data for 2024 was submitted to the Ministry electronically under Permit #6328-BMYJUS. The confirmation can be found attached in Appendix A.

Winchester Well Field #7 - Flows

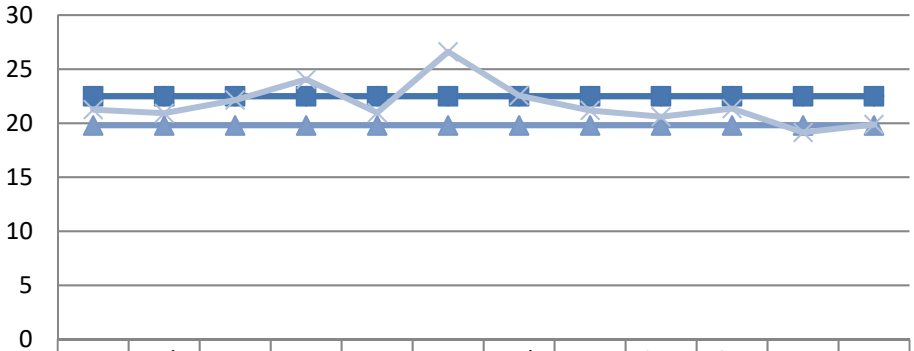
Max. Allowable Flow - PTTW



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Max Allowable (m3/d)	1944	1944	1944	1944	1944	1944	1944	1944	1944	1944	1944	1944
Operating Limit (m3/d)	1944	1944	1944	1944	1944	1944	1944	1944	1944	1944	1944	1944
Current Rate (m3/d)	1710	1710	1710	1710	1710	1710	1710	1710	1710	1710	1710	1710
Max Flow (m3/d)	1,623	1,343	1,774	1,740	1,405	1,295	1,698	1,235	1,361	1,632	1,582	1,541
Avg Flow (m3/d)	1,109	1,116	1,128	1,231	1,018	870	1,023	1,003	1,034	1,034	1,042	1,015

Winchester Well Field #7 - Maximum Flow Rates

Max. Allowable Rate - PTTW



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Max Allowable Rate (L/sec)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Operating Limit (L/s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Current Rate (L/s)	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8	19.8
Max Rate (L/s)	21.3	20.9	22.1	24.1	21.0	26.6	22.6	21.2	20.6	21.4	19.1	19.9

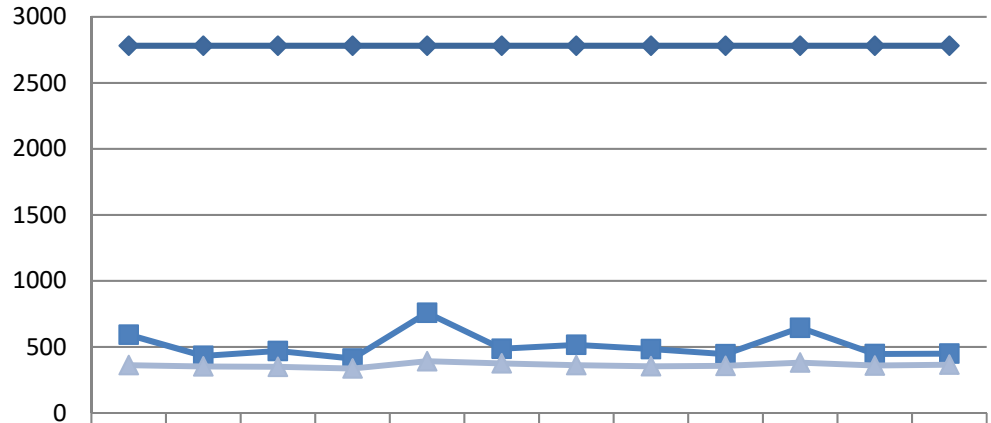
**April flow exceedance reported. Please refer to the Non-Compliance Summary above for details.*
***Flow spikes in June occurred following flow meter replacement, all < 1 minute.*

Treated Water Flows

Treated water flows are regulated under the Municipal Drinking Water Licence (MDWL).

Chesterville Reservoir - Daily Treated Flows

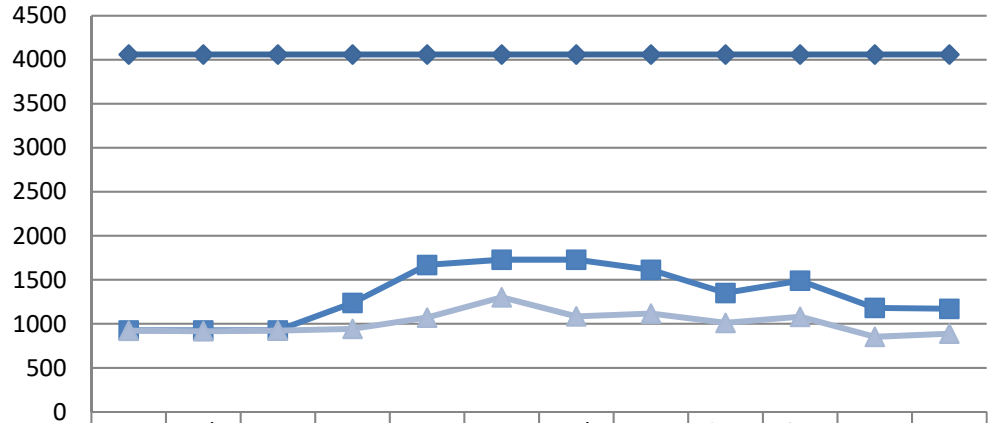
Rated Capacity - MDWL



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rated Capacity (m3/d)	2781	2781	2781	2781	2781	2781	2781	2781	2781	2781	2781	2781
Max Flow (m3/d)	592	432	469	412	758	486	516	484	445	645	446	449
Avg Flow (m3/d)	362	353	349	336	392	376	362	353	356	382	359	366

Winchester Reservoir - Treated Flows

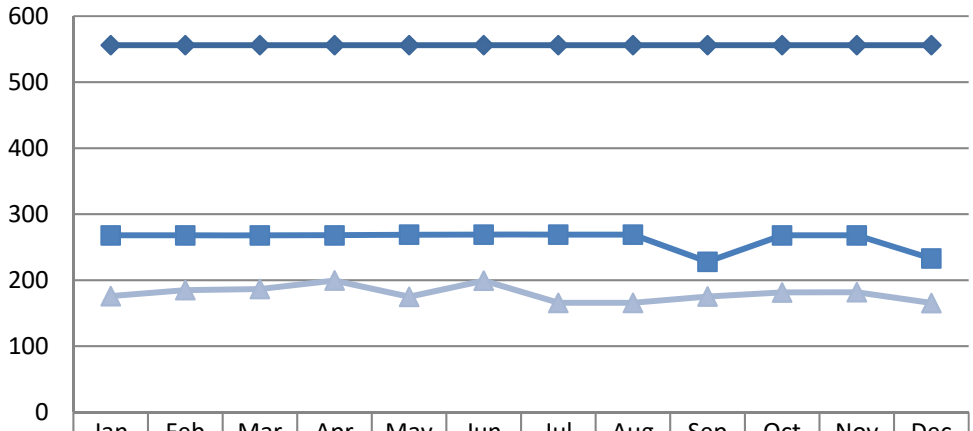
Rated Capacity - MDWL



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rated Capacity (m3/d)	4060	4060	4060	4060	4060	4060	4060	4060	4060	4060	4060	4060
Max Flow (m3/d)	925	926	926	1238	1669	1729	1729	1614	1351	1490	1181	1171
Avg Flow (m3/d)	922	916	923	943	1071	1302	1085	1117	1011	1080	853	889

Winchester Well #5 - Treated Flows

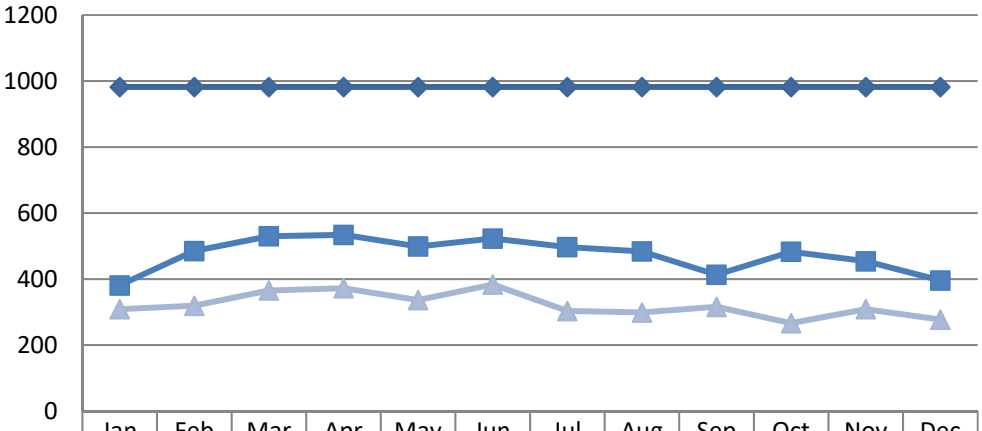
Rated Capacity - MDWL



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rated Capacity (m3/d)	556	556	556	556	556	556	556	556	556	556	556	556
Max Flow (m3/d)	268	268	268	268	269	269	269	269	228	268	268	233
Avg Flow (m3/d)	176	185	187	199	175	199	166	166	175	181	182	165

Winchester Well #6 - Treated Flows

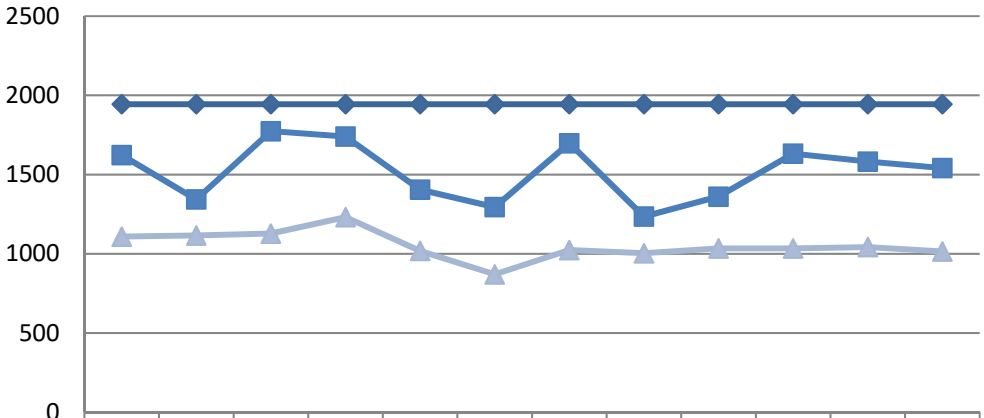
Rated Capacity - MDWL



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rated Capacity (m3/d)	982	982	982	982	982	982	982	982	982	982	982	982
Max Flow (m3/d)	381	485	530	534	499	523	497	484	413	483	454	396
Avg Flow (m3/d)	309	319	366	372	336	384	303	299	316	266	309	277

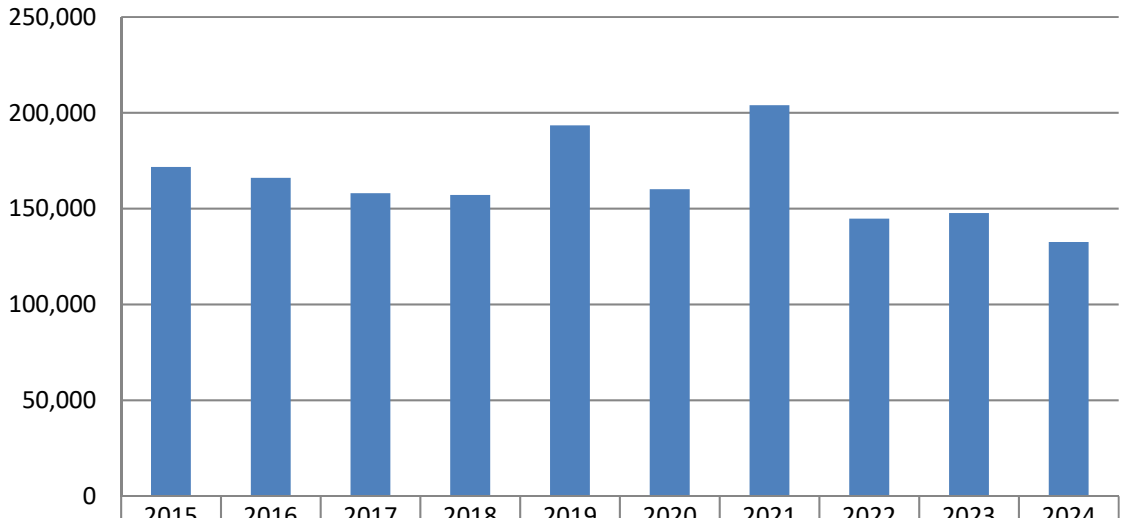
Winchester Well Field #7 - Treated Flows

Rated Capacity - MDWL



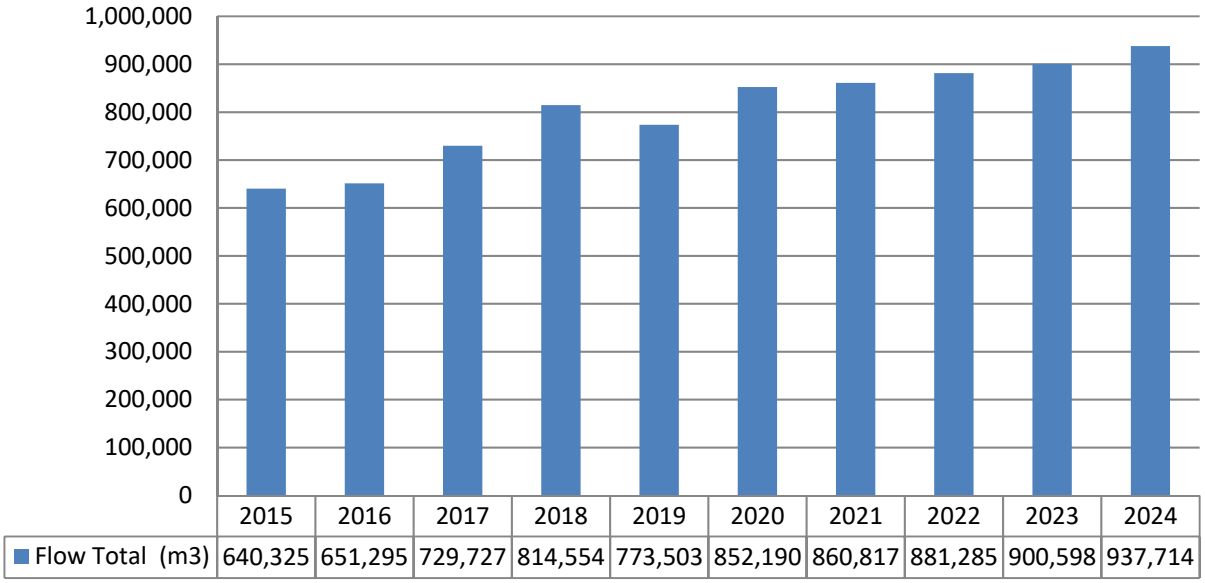
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rated Capacity (m3/d)	1944	1944	1944	1944	1944	1944	1944	1944	1944	1944	1944	1944
Max Flow (m3/d)	1,623	1,343	1,774	1,740	1,405	1,295	1,698	1,235	1,361	1,632	1,582	1,541
Avg Flow (m3/d)	1,109	1,116	1,128	1,231	1,018	870	1,023	1,003	1,034	1,034	1,042	1,015

Chesterville DWS - Annual Total Flow Comparison



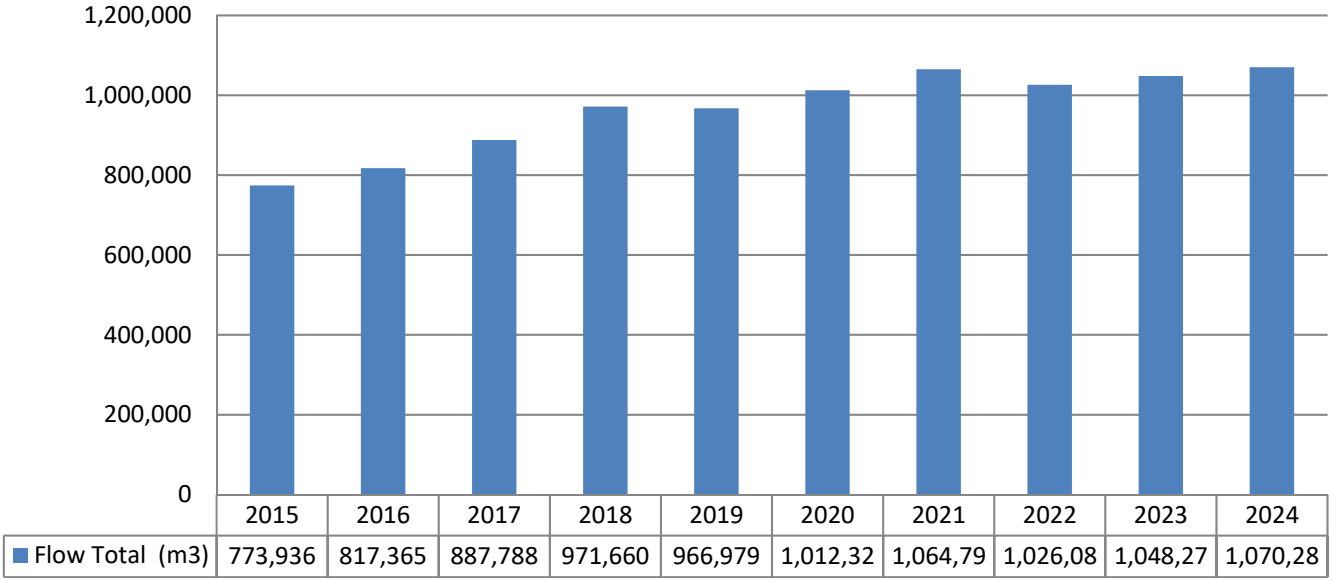
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Flow Total (m3)	171,733	166,070	158,061	157,106	193,476	160,133	203,975	144,800	147,672	132,572

Winchester DWS - Annual Total Flow Comparison



	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Flow Total (m3)	640,325	651,295	729,727	814,554	773,503	852,190	860,817	881,285	900,598	937,714

North Dundas DWS - Annual Total Flow Comparison



	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Flow Total (m3)	773,936	817,365	887,788	971,660	966,979	1,012,32	1,064,79	1,026,08	1,048,27	1,070,28

Regulatory Sample Results Summary

Microbiological Testing

	No. of Samples Collected	Range of E.Coli Results		Range of Total Coliform Results		Number of HPC Samples	Range of HPC Results	
		Min	Max	Min	Max		Min	Max
Raw Water	424	0	2	0	26	0		
Treated Water	265	0	0	0	0	265	2	258
Distribution Water	212	0	0	0	0	106	2	98

Operational Testing

Parameter & Sample Type	No. of Samples Collected	Range of Results		
		Minimum	Average	Maximum
Turbidity, In-House (NTU) - RW1 (WW1)	12	0.30	0.57	0.80
Turbidity, In-House (NTU) - RW2 (WW5)	12	0.13	0.38	0.63
Turbidity, In-House (NTU) - RW3 (WW6)	12	0.19	0.41	0.70
Turbidity, In-House (NTU) - RW4 (WW7A)	12	0.15	0.27	0.48
Turbidity, In-House (NTU) - RW5 (WW7B)	12	0.12	0.27	0.59
Turbidity, In-House (NTU) - RW6 (WW7C)	12	0.19	0.50	1.08
Turbidity, In-House (NTU) - RW8 (CW5)	12	0.08	0.25	0.68
Turbidity, In-House (NTU) - RW9 (CW6)	12	0.27	0.34	0.51
Free Chlorine Residual, On-Line (mg/L) - TW1 (CWRes)	8760	0.71	1.42	2.44
Free Chlorine Residual, On-Line (mg/L) - TW2 (WWRes)	8760	0.58	1.67	4.88
Free Chlorine Residual, On-Line (mg/L) - TW3 (WW5)	8760	0.50	1.30	5.00
Free Chlorine Residual, On-Line (mg/L) - TW4 (WW6)	8760	0.48	1.66	3.11
Free Chlorine Residual, On-Line (mg/L) - TW5 (WW7)	8760	0.51	1.52	4.05
Free Chlorine Residual, In-House (mg/L) - DW1 (WW)	58	0.64	1.23	1.81
Free Chlorine Residual, In-House (mg/L) - DW2 (WW)	58	0.67	1.34	1.93
Free Chlorine Residual, In-House (mg/L) - DW3 (CW)	54	0.71	1.19	1.73
Free Chlorine Residual, In-House (mg/L) - DW4 (CW)	54	0.79	1.39	2.12
Free Chlorine Residual, On-Line (mg/L) - DW1 (WW)	8760	0.29	1.15	2.87
Free Chlorine Residual, On-Line (mg/L) - DW3 (CW)	8760	0.42	1.10	1.95

NOTE: Spikes recorded by on-line instrumentation may result from air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O. Reg. 170/03.

Inorganic Parameters

These parameters are tested as a requirement under O. Reg. 170/03. Sodium and Fluoride are required to be tested every 60 months. Nitrate and Nitrite are tested quarterly, and metals are tested every 36 months as required under O. Reg. 170/03. In the event any parameter exceeds half the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg. 169/03
- MDL = Below the laboratory detection level

*Note: There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Chesterville Reservoir

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Antimony: Sb (ug/L) - TW1	2024/01/09	< MDL 0.1	6	No	No
Arsenic: As (ug/L) - TW1	2024/01/09	< MDL 0.1	10	No	No
Barium: Ba (ug/L) - TW1	2024/01/09	141	1000	No	No
Boron: B (ug/L) - TW1	2024/01/09	11	5000	No	No
Cadmium: Cd (ug/L) - TW1	2024/01/09	< MDL 0.015	5	No	No
Chromium: Cr (ug/L) - TW1	2024/01/09	< MDL 1	50	No	No
Mercury: Hg (ug/L) - TW1	2024/01/09	< MDL 0.02	1	No	No
Selenium: Se (ug/L) - TW1	2024/01/09	< MDL 1	50	No	No
Uranium: U (ug/L) - TW1	2024/01/09	0.78	20	No	No
Additional Inorganics					
Fluoride (mg/L) – TW1	2022/01/12	< MDL 0.1	1.5	No	No
Nitrate : (mg/L) - TW1	2024/01/09	0.09	10	No	No
Nitrate : (mg/L) - TW1	2024/04/22	0.06	10	No	No
Nitrate : (mg/L) - TW1	2024/07/15	0.08	10	No	No
Nitrate : (mg/L) - TW1	2024/10/07	< MDL 0.05	10	No	No
Nitrite : (mg/L) - TW1	2024/01/09	< MDL 0.05	1	No	No
Nitrite : (mg/L) - TW1	2024/04/22	0.09	1	No	No
Nitrite : (mg/L) - TW1	2024/07/15	< MDL 0.05	1	No	No
Nitrite : (mg/L) - TW1	2024/10/07	< MDL 0.05	1	No	No
Sodium / Na (mg/L) - TW1	2022/01/24	18	20*	No	Yes

Winchester Reservoir

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Antimony: Sb (ug/L) - TW2	2024/01/18	< MDL 0.1	6	No	No
Arsenic: As (ug/L) - TW2	2024/01/18	0.4	10	No	No
Barium: Ba (ug/L) - TW2	2024/01/18	185	1000	No	No
Boron: B (ug/L) - TW2	2024/01/18	204	5000	No	No
Cadmium: Cd (ug/L) - TW2	2024/01/18	< MDL 0.015	5	No	No
Chromium: Cr (ug/L) - TW2	2024/01/18	< MDL 1	50	No	No
Mercury: Hg (ug/L) - TW2	2024/01/18	< MDL 0.02	1	No	No
Selenium: Se (ug/L) - TW2	2024/01/18	1	50	No	No
Uranium: U (ug/L) - TW2	2024/01/18	0.46	20	No	No
Additional Inorganics					
Fluoride (mg/L) – TW2	2022/01/17	0.3	1.5	No	No
Nitrate : (mg/L) - TW2	2024/01/08	< MDL 0.05	10	No	No
Nitrate : (mg/L) - TW2	2024/04/02	< MDL 0.05	10	No	No
Nitrate : (mg/L) - TW2	2024/07/02	< MDL 0.05	10	No	No
Nitrate : (mg/L) - TW2	2024/10/07	< MDL 0.05	10	No	No
Nitrite : (mg/L) - TW2	2024/01/08	< MDL 0.05	1	No	No
Nitrite : (mg/L) - TW2	2024/04/02	< MDL 0.05	1	No	No
Nitrite : (mg/L) - TW2	2024/07/02	< MDL 0.05	1	No	No
Nitrite : (mg/L) - TW2	2024/10/07	< MDL 0.05	1	No	No
Sodium / Na (mg/L) - TW2	2022/01/24	55.6	20*	Yes	Yes

Winchester Well #5

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Antimony: Sb (ug/L) - TW3	2024/01/18	< MDL 0.1	6	No	No
Arsenic: As (ug/L) - TW3	2024/01/18	< MDL 0.1	10	No	No
Barium: Ba (ug/L) - TW3	2024/01/18	125	1000	No	No
Boron: B (ug/L) - TW3	2024/01/18	853	5000	No	No
Cadmium: Cd (ug/L) - TW3	2024/01/18	<MDL 0.015	5	No	No
Chromium: Cr (ug/L) - TW3	2024/01/18	< MDL 1	50	No	No
Mercury: Hg (ug/L) - TW3	2024/01/18	< MDL 0.02	1	No	No
Selenium: Se (ug/L) - TW3	2024/01/18	4	50	No	No

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Uranium: U (ug/L) - TW3	2024/01/18	0.07	20	No	No
Additional Inorganics					
Fluoride (mg/L) – TW3	2022/01/31	< MDL 0.1	1.5	No	No
Nitrate : (mg/L) - TW3	2024/01/08	< MDL 0.05	10	No	No
Nitrate : (mg/L) - TW3	2024/04/02	0.08	10	No	No
Nitrate : (mg/L) - TW3	2024/07/02	< MDL 0.05	10	No	No
Nitrate : (mg/L) - TW3	2024/10/07	< MDL 0.05	10	No	No
Nitrite : (mg/L) - TW3	2024/01/08	< MDL 0.05	1	No	No
Nitrite : (mg/L) - TW3	2024/04/02	0.08	1	No	No
Nitrite : (mg/L) - TW3	2024/07/02	0.2	1	No	No
Nitrite : (mg/L) - TW3	2024/10/07	< MDL 0.05	1	No	No
Sodium / Na (mg/L) - TW3	2022/02/03	144	20*	Yes	Yes

Winchester Well #6

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Antimony: Sb (ug/L) - TW4	2024/01/18	< MDL 0.1	6	No	No
Arsenic: As (ug/L) - TW4	2024/01/18	0.1	10	No	No
Barium: Ba (ug/L) - TW4	2024/01/18	79	1000	No	No
Boron: B (ug/L) - TW4	2024/01/18	175	5000	No	No
Cadmium: Cd (ug/L) - TW4	2024/01/18	< MDL 0.015	5	No	No
Chromium: Cr (ug/L) - TW4	2024/01/18	< MDL 1	50	No	No
Mercury: Hg (ug/L) - TW4	2024/01/18	< MDL 0.02	1	No	No
Selenium: Se (ug/L) - TW4	2024/01/18	3	50	No	No
Uranium: U (ug/L) - TW4	2024/01/18	0.93	20	No	No
Additional Inorganics					
Fluoride (mg/L) – TW4	2022/01/31	0.1	1.5	No	No
Nitrate : (mg/L) - TW4	2024/01/08	0.07	10	No	No
Nitrate : (mg/L) - TW4	2024/04/02	0.68	10	No	No
Nitrate : (mg/L) - TW4	2024/07/02	0.27	10	No	No
Nitrate : (mg/L) - TW4	2024/10/07	< MDL 0.05	10	No	No
Nitrite : (mg/L) - TW4	2024/01/08	< MDL 0.05	1	No	No
Nitrite : (mg/L) - TW4	2024/04/02	0.08	1	No	No
Nitrite : (mg/L) - TW4	2024/07/02	0.07	1	No	No

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Nitrite : (mg/L) - TW4	2024/10/07	< MDL 0.05	1	No	No
Sodium / Na (mg/L) - TW4	2022/02/03	20.9	20*	Yes	Yes

Winchester Well Field #7

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Antimony: Sb (ug/L) - TW5	2024/01/18	< MDL 0.1	6	No	No
Arsenic: As (ug/L) - TW5	2024/01/18	0.1	10	No	No
Barium: Ba (ug/L) - TW5	2024/01/18	182	1000	No	No
Boron: B (ug/L) - TW5	2024/01/18	33	5000	No	No
Cadmium: Cd (ug/L) - TW5	2024/01/18	< MDL 0.015	5	No	No
Chromium: Cr (ug/L) - TW5	2024/01/18	< MDL 1	50	No	No
Mercury: Hg (ug/L) - TW5	2024/01/18	< MDL 0.02	1	No	No
Selenium: Se (ug/L) - TW5	2024/01/18	1	50	No	No
Uranium: U (ug/L) - TW5	2024/01/18	0.89	20	No	No
Additional Inorganics					
Fluoride (mg/L) – TW4	2022/01/31	< MDL 0.1	1.5	No	No
Nitrate : (mg/L) - TW5	2024/01/08	0.1	10	No	No
Nitrate : (mg/L) - TW5	2024/04/02	< MDL 0.05	10	No	No
Nitrate : (mg/L) - TW5	2024/07/02	0.09	10	No	No
Nitrate : (mg/L) - TW5	2024/10/07	< MDL 0.05	10	No	No
Nitrite : (mg/L) - TW5	2024/01/08	< MDL 0.05	1	No	No
Nitrite : (mg/L) - TW5	2024/04/02	< MDL 0.05	1	No	No
Nitrite : (mg/L) - TW5	2024/07/02	< MDL 0.05	1	No	No
Nitrite : (mg/L) - TW5	2024/10/07	< MDL 0.05	1	No	No
Sodium / Na (mg/L) - TW5	2017/02/06	8.42	20*	No	No

Schedule 15 Sampling:

The Schedule 15 Sampling is required under O. Reg. 170/03. This system is under a reduced sampling schedule. No plumbing samples were collected. Lead was sampled in 2023.

Location Type	# of Samples	Range of Results		MAC	Number of Exceedances
		Min	Max		
Distribution Water #1 - Lead - Pb: (µg/l)	0			10	0
Distribution Water #1 - Alkalinity_CaCO3: (mg/L)	2	233	242	N/A	N/A
Distribution Water #1 - pH Field IH	2	7.2	7.2	N/A	N/A

Location Type	# of Samples	Range of Results		MAC	Number of Exceedances
		Min	Max		
Distribution Water #2 - Lead - Pb: (µg/l)	0			10	0
Distribution Water #2 - Alkalinity_CaCO3: (mg/L)	2	241	309	N/A	N/A
Distribution Water #2 - pH Field IH	2	6.9	7.5	N/A	N/A
Distribution Water #3 - Lead - Pb: (µg/l)	0	-	-	10	0
Distribution Water #3 - Alkalinity_CaCO3: (mg/L)	2	264	265	N/A	N/A
Distribution Water #3 - pH Field IH	2	7.61	7.91	N/A	N/A
Distribution Water #4 - Lead - Pb: (µg/l)	0	-	-	10	0
Distribution Water #4 - Alkalinity_CaCO3: (mg/L)	2	259	270	N/A	N/A
Distribution Water #4 - pH Field IH	2	7.56	7.77	N/A	N/A

Organic Parameters

These parameters are tested every 36 months as a requirement under O. Reg. 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg. 169/03
- MDL = Below the laboratory detection level

Chesterville Reservoir

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
1,1-Dichloroethylene (ug/L)-TW1	2024/01/09	< MDL 0.5	14	No	No
1,2-Dichlorobenzene (ug/L)-TW1	2024/01/09	< MDL 0.5	200	No	No
1,2-Dichloroethane (ug/L)-TW1	2024/01/09	< MDL 0.5	5	No	No
1,4-Dichlorobenzene (ug/L)-TW1	2024/01/09	< MDL 0.5	5	No	No
2,3,4,6-Tetrachlorophenol (ug/L)-TW1	2024/01/09	< MDL 0.2	100	No	No
2,4,6-Trichlorophenol (ug/L)-TW1	2024/01/09	< MDL 0.2	5	No	No
2,4-Dichlorophenol (ug/L)-TW1	2024/01/09	< MDL 0.2	900	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L)-TW1	2024/01/09	< MDL 1	100	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L)-TW1	2024/01/09	< MDL 10	100	No	No
Alachlor (ug/L) -TW1	2024/01/09	< MDL 0.3	5	No	No
Atrazine + N-dealkylated metabolites (ug/L)-TW1	2024/01/09	< MDL 0.5	5	No	No
Azinphos-methyl (ug/L)-TW1	2024/01/09	< MDL 1	20	No	No
Benzene (ug/L)-TW1	2024/01/09	< MDL 0.5	1	No	No
Benzo(a)pyrene (ug/L)-TW1	2024/01/09	< MDL 0.006	0.01	No	Yes

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Bromoxynil (ug/L)-TW1	2024/01/09	< MDL 0.5	5	No	No
Carbaryl (ug/L)-TW1	2024/01/09	< MDL 3	90	No	No
Carbofuran (ug/L) -TW1	2024/01/09	< MDL 1	90	No	No
Carbon Tetrachloride (ug/L) -TW1	2024/01/09	< MDL 0.2	2	No	No
Chlorpyrifos (ug/L) -TW1	2024/01/09	< MDL 0.5	90	No	No
Diazinon (ug/L)-TW1	2024/01/09	< MDL 1	20	No	No
Dicamba (ug/L)-TW1	2024/01/09	< MDL 1	120	No	No
Dichloromethane (Methylene Chloride) (ug/L)-TW1	2024/01/09	< MDL 5	50	No	No
Diclofop-methyl (ug/L)-TW1	2024/01/09	< MDL 0.9	9	No	No
Dimethoate (ug/L)-TW1	2024/01/09	< MDL 1	20	No	No
Diquat (ug/L)-TW1	2024/01/09	< MDL 5	70	No	No
Diuron (ug/L)-TW1	2024/01/09	< MDL 5	150	No	No
Glyphosate (ug/L)-TW1	2024/01/09	< MDL 25	280	No	No
Malathion (ug/L)-TW1	2024/01/09	< MDL 5	190	No	No
Metolachlor (ug/L)-TW1	2024/01/09	< MDL 3	50	No	No
Metribuzin (ug/L)-TW1	2024/01/09	< MDL 3	80	No	No
Paraquat (ug/L)-TW1	2024/01/09	< MDL 1	10	No	No
PCB (ug/L)-TW1	2024/01/09	< MDL 0.05	3	No	No
Pentachlorophenol (ug/L)-TW1	2024/01/09	< MDL 0.2	60	No	No
Phorate (ug/L)-TW1	2024/01/09	< MDL 0.3	2	No	No
Picloram (ug/L)-TW1	2024/01/09	< MDL 5	190	No	No
Prometryne (ug/L)-TW1	2024/01/09	< MDL 0.1	1	No	No
Simazine (ug/L)-TW1	2024/01/09	< MDL 0.5	10	No	No
Terbufos (ug/L)-TW1	2024/01/09	< MDL 0.5	1	No	No
Tetrachloroethylene (ug/L)-TW1	2024/01/09	< MDL 0.5	10	No	No
Triallate (ug/L) -TW1	2024/01/09	< MDL 10	230	No	No
Trichloroethylene (ug/L)-TW1	2024/01/09	< MDL 0.5	5	No	No
Trifluralin (ug/L)-TW1	2024/01/09	< MDL 0.5	45	No	No
Vinyl Chloride (ug/L)-TW1	2024/01/09	< MDL 0.2	1	No	No

Winchester Reservoir

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
1,1-Dichloroethylene (ug/L)-TW2	2024/01/18	< MDL 0.5	14	No	No
1,2-Dichlorobenzene (ug/L)-TW2	2024/01/18	< MDL 0.5	200	No	No
1,2-Dichloroethane (ug/L)-TW2	2024/01/18	< MDL 0.5	5	No	No
1,4-Dichlorobenzene (ug/L)-TW2	2024/01/18	< MDL 0.5	5	No	No
2,3,4,6-Tetrachlorophenol (ug/L)-TW2	2024/01/18	< MDL 0.2	100	No	No
2,4,6-Trichlorophenol (ug/L)-TW2	2024/01/18	< MDL 0.2	5	No	No
2,4-Dichlorophenol (ug/L)-TW2	2024/01/18	< MDL 0.2	900	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L)-TW2	2024/01/18	< MDL 1	100	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L)-TW2	2024/01/18	< MDL 10	100	No	No
Alachlor (ug/L) -TW2	2024/01/18	< MDL 0.3	5	No	No
Atrazine + N-dealkylated metabolites (ug/L)-TW2	2024/01/18	< MDL 0.5	5	No	No
Azinphos-methyl (ug/L)-TW2	2024/01/18	< MDL 1	20	No	No
Benzene (ug/L)-TW2	2024/01/18	< MDL 0.5	1	No	No
Benzo(a)pyrene (ug/L)-TW2	2024/01/18	< MDL 0.006	0.01	No	Yes
Bromoxynil (ug/L)-TW2	2024/01/18	< MDL 0.5	5	No	No
Carbaryl (ug/L)-TW2	2024/01/18	< MDL 3	90	No	No
Carbofuran (ug/L) -TW2	2024/01/18	< MDL 1	90	No	No
Carbon Tetrachloride (ug/L) -TW2	2024/01/18	< MDL 0.2	2	No	No
Chlorpyrifos (ug/L) -TW2	2024/01/18	< MDL 0.5	90	No	No
Diazinon (ug/L)-TW2	2024/01/18	< MDL 1	20	No	No
Dicamba (ug/L)-TW2	2024/01/18	< MDL 1	120	No	No
Dichloromethane (Methylene Chloride) (ug/L)-TW2	2024/01/18	< MDL 5	50	No	No
Diclofop-methyl (ug/L)-TW2	2024/01/18	< MDL 0.9	9	No	No
Dimethoate (ug/L)-TW2	2024/01/18	< MDL 1	20	No	No
Diquat (ug/L)-TW2	2024/01/18	< MDL 5	70	No	No
Diuron (ug/L)-TW2	2024/01/18	< MDL 5	150	No	No
Glyphosate (ug/L)-TW2	2024/01/18	< MDL 25	280	No	No
Malathion (ug/L)-TW2	2024/01/18	< MDL 5	190	No	No
Metolachlor (ug/L)-TW2	2024/01/18	< MDL 3	50	No	No
Metribuzin (ug/L)-TW2	2024/01/18	< MDL 3	80	No	No
Monochlorobenzene (Chlorobenzene) (ug/L)-TW2	2024/01/18	< MDL 0.5	80	No	No

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Paraquat (ug/L)-TW2	2024/01/18	< MDL 1	10	No	No
PCB (ug/L)-TW2	2024/01/18	< MDL 0.05	3	No	No
Pentachlorophenol (ug/L)-TW2	2024/01/18	< MDL 0.2	60	No	No
Phorate (ug/L)-TW2	2024/01/18	< MDL 0.3	2	No	No
Picloram (ug/L)-TW2	2024/01/18	< MDL 5	190	No	No
Prometryne (ug/L)-TW2	2024/01/18	< MDL 0.1	1	No	No
Simazine (ug/L)-TW2	2024/01/18	< MDL 0.5	10	No	No
Terbufos (ug/L)-TW2	2024/01/18	< MDL 0.5	1	No	No
Tetrachloroethylene (ug/L)-TW2	2024/01/18	< MDL 0.5	10	No	No
Triallate (ug/L) -TW2	2024/01/18	< MDL 10	230	No	No
Trichloroethylene (ug/L)-TW2	2024/01/18	< MDL 0.5	5	No	No
Trifluralin (ug/L)-TW2	2024/01/18	< MDL 0.5	45	No	No
Vinyl Chloride (ug/L)-TW2	2024/01/18	< MDL 0.2	1	No	No

Winchester Well #5

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
1,1-Dichloroethylene (ug/L)-TW3	2024/01/18	< MDL 0.5	14	No	No
1,2-Dichlorobenzene (ug/L)-TW3	2024/01/18	< MDL 0.5	200	No	No
1,2-Dichloroethane (ug/L)-TW3	2024/01/18	< MDL 0.5	5	No	No
1,4-Dichlorobenzene (ug/L)-TW3	2024/01/18	< MDL 0.5	5	No	No
2,3,4,6-Tetrachlorophenol (ug/L)-TW3	2024/01/18	< MDL 0.2	100	No	No
2,4,6-Trichlorophenol (ug/L)-TW3	2024/01/18	< MDL 0.2	5	No	No
2,4-Dichlorophenol (ug/L)-TW3	2024/01/18	< MDL 0.2	900	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L)-TW3	2024/01/18	< MDL 1	100	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L)-TW3	2024/01/18	< MDL 10	100	No	No
Alachlor (ug/L) -TW3	2024/01/18	< MDL 0.3	5	No	No
Atrazine + N-dealkylated metabolites (ug/L)-TW3	2024/01/18	< MDL 0.5	5	No	No
Azinphos-methyl (ug/L)-TW3	2024/01/18	< MDL 1	20	No	No
Benzene (ug/L)-TW3	2024/01/18	< MDL 0.5	1	No	No
Benzo(a)pyrene (ug/L)-TW3	2024/01/18	< MDL 0.006	0.01	No	Yes
Bromoxynil (ug/L)-TW3	2024/01/18	< MDL 0.5	5	No	No
Carbaryl (ug/L)-TW3	2024/01/18	< MDL 3	90	No	No

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Carbofuran (ug/L) -TW3	2024/01/18	< MDL 1	90	No	No
Carbon Tetrachloride (ug/L) -TW3	2024/01/18	< MDL 0.2	2	No	No
Chlorpyrifos (ug/L) -TW3	2024/01/18	< MDL 0.5	90	No	No
Diazinon (ug/L)-TW3	2024/01/18	< MDL 1	20	No	No
Dicamba (ug/L)-TW3	2024/01/18	< MDL 1	120	No	No
Dichloromethane (Methylene Chloride) (ug/L)-TW3	2024/01/18	< MDL 5	50	No	No
Diclofop-methyl (ug/L)-TW3	2024/01/18	< MDL 0.9	9	No	No
Dimethoate (ug/L)-TW3	2024/01/18	< MDL 1	20	No	No
Diquat (ug/L)-TW3	2024/01/18	< MDL 5	70	No	No
Diuron (ug/L)-TW3	2024/01/18	< MDL 5	150	No	No
Glyphosate (ug/L)-TW3	2024/01/18	< MDL 25	280	No	No
Malathion (ug/L)-TW3	2024/01/18	< MDL 5	190	No	No
Metolachlor (ug/L)-TW3	2024/01/18	< MDL 3	50	No	No
Metribuzin (ug/L)-TW3	2024/01/18	< MDL 3	80	No	No
Monochlorobenzene (Chlorobenzene) (ug/L)-TW3	2024/01/18	< MDL 0.5	80	No	No
Paraquat (ug/L)-TW3	2024/01/18	< MDL 1	10	No	No
PCB (ug/L)-TW3	2024/01/18	< MDL 0.05	3	No	No
Pentachlorophenol (ug/L)-TW3	2024/01/18	< MDL 0.2	60	No	No
Phorate (ug/L)-TW3	2024/01/18	< MDL 0.3	2	No	No
Picloram (ug/L)-TW3	2024/01/18	< MDL 5	190	No	No
Prometryne (ug/L)-TW3	2024/01/18	< MDL 0.1	1	No	No
Simazine (ug/L)-TW3	2024/01/18	< MDL 0.5	10	No	No
Terbufos (ug/L)-TW3	2024/01/18	< MDL 0.5	1	No	No
Tetrachloroethylene (ug/L)-TW3	2024/01/18	< MDL 0.5	10	No	No
Triallate (ug/L) -TW3	2024/01/18	< MDL 10	230	No	No
Trichloroethylene (ug/L)-TW3	2024/01/18	< MDL 0.5	5	No	No
Trifluralin (ug/L)-TW3	2024/01/18	< MDL 0.5	45	No	No
Vinyl Chloride (ug/L)-TW3	2024/01/18	< MDL 0.2	1	No	No

Winchester Well #6

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
1,1-Dichloroethylene (ug/L)-TW4	2024/01/18	< MDL 0.5	14	No	No

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
1,2-Dichlorobenzene (ug/L)-TW4	2024/01/18	< MDL 0.5	200	No	No
1,2-Dichloroethane (ug/L)-TW4	2024/01/18	< MDL 0.5	5	No	No
1,4-Dichlorobenzene (ug/L)-TW4	2024/01/18	< MDL 0.5	5	No	No
2,3,4,6-Tetrachlorophenol (ug/L)-TW4	2024/01/18	< MDL 0.2	100	No	No
2,4,6-Trichlorophenol (ug/L)-TW4	2024/01/18	< MDL 0.2	5	No	No
2,4-Dichlorophenol (ug/L)-TW4	2024/01/18	< MDL 0.2	900	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L)-TW4	2024/01/18	< MDL 1	100	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L)-TW4	2024/01/18	< MDL 10	100	No	No
Alachlor (ug/L) -TW4	2024/01/18	< MDL 0.3	5	No	No
Atrazine + N-dealkylated metabolites (ug/L)-TW4	2024/01/18	< MDL 0.5	5	No	No
Azinphos-methyl (ug/L)-TW4	2024/01/18	< MDL 1	20	No	No
Benzene (ug/L)-TW4	2024/01/18	< MDL 0.5	1	No	No
Benzo(a)pyrene (ug/L)-TW4	2024/01/18	< MDL 0.006	0.01	No	Yes
Bromoxynil (ug/L)-TW4	2024/01/18	< MDL 0.5	5	No	No
Carbaryl (ug/L)-TW4	2024/01/18	< MDL 3	90	No	No
Carbofuran (ug/L) -TW4	2024/01/18	< MDL 1	90	No	No
Carbon Tetrachloride (ug/L) -TW4	2024/01/18	< MDL 0.2	2	No	No
Chlorpyrifos (ug/L) -TW4	2024/01/18	< MDL 0.5	90	No	No
Diazinon (ug/L)-TW4	2024/01/18	< MDL 1	20	No	No
Dicamba (ug/L)-TW4	2024/01/18	< MDL 1	120	No	No
Dichloromethane (Methylene Chloride) (ug/L)-TW4	2024/01/18	< MDL 5	50	No	No
Diclofop-methyl (ug/L)-TW4	2024/01/18	< MDL 0.9	9	No	No
Dimethoate (ug/L)-TW4	2024/01/18	< MDL 1	20	No	No
Diquat (ug/L)-TW4	2024/01/18	< MDL 5	70	No	No
Diuron (ug/L)-TW4	2024/01/18	< MDL 5	150	No	No
Glyphosate (ug/L)-TW4	2024/01/18	< MDL 25	280	No	No
Malathion (ug/L)-TW4	2024/01/18	< MDL 5	190	No	No
Metolachlor (ug/L)-TW4	2024/01/18	< MDL 3	50	No	No
Metribuzin (ug/L)-TW4	2024/01/18	< MDL 3	80	No	No
Monochlorobenzene (Chlorobenzene) (ug/L)-TW4	2024/01/18	< MDL 0.5	80	No	No
Paraquat (ug/L)-TW4	2024/01/18	< MDL 1	10	No	No
PCB (ug/L)-TW4	2024/01/18	< MDL 0.05	3	No	No

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Pentachlorophenol (ug/L)-TW4	2024/01/18	< MDL 0.2	60	No	No
Phorate (ug/L)-TW4	2024/01/18	< MDL 0.3	2	No	No
Picloram (ug/L)-TW4	2024/01/18	< MDL 5	190	No	No
Prometryne (ug/L)-TW4	2024/01/18	< MDL 0.1	1	No	No
Simazine (ug/L)-TW4	2024/01/18	< MDL 0.5	10	No	No
Terbufos (ug/L)-TW4	2024/01/18	< MDL 0.5	1	No	No
Tetrachloroethylene (ug/L)-TW4	2024/01/18	< MDL 0.5	10	No	No
Triallate (ug/L) -TW4	2024/01/18	< MDL 10	230	No	No
Trichloroethylene (ug/L)-TW4	2024/01/18	< MDL 0.5	5	No	No
Trifluralin (ug/L)-TW4	2024/01/18	< MDL 0.5	45	No	No
Vinyl Chloride (ug/L)-TW4	2024/01/18	< MDL 0.2	1	No	No

Winchester Well Field 7

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
1,1-Dichloroethylene (ug/L)-TW5	2024/01/18	< MDL 0.5	14	No	No
1,2-Dichlorobenzene (ug/L)-TW5	2024/01/18	< MDL 0.5	200	No	No
1,2-Dichloroethane (ug/L)-TW5	2024/01/18	< MDL 0.5	5	No	No
1,4-Dichlorobenzene (ug/L)-TW5	2024/01/18	< MDL 0.5	5	No	No
2,3,4,6-Tetrachlorophenol (ug/L)-TW5	2024/01/18	< MDL 0.2	100	No	No
2,4,6-Trichlorophenol (ug/L)-TW5	2024/01/18	< MDL 0.2	5	No	No
2,4-Dichlorophenol (ug/L)-TW5	2024/01/18	< MDL 0.2	900	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L)-TW5	2024/01/18	< MDL 1	100	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L)-TW5	2024/01/18	< MDL 10	100	No	No
Alachlor (ug/L) -TW5	2024/01/18	< MDL 0.3	5	No	No
Atrazine + N-dealkylated metabolites (ug/L)-TW5	2024/01/18	< MDL 0.5	5	No	No
Azinphos-methyl (ug/L)-TW5	2024/01/18	< MDL 1	20	No	No
Benzene (ug/L)-TW5	2024/01/18	< MDL 0.5	1	No	No
Benzo(a)pyrene (ug/L)-TW5	2024/01/18	< MDL 0.006	0.01	No	Yes
Bromoxynil (ug/L)-TW5	2024/01/18	< MDL 0.5	5	No	No
Carbaryl (ug/L)-TW5	2024/01/18	< MDL 3	90	No	No
Carbofuran (ug/L) -TW5	2024/01/18	< MDL 1	90	No	No
Carbon Tetrachloride (ug/L) -TW5	2024/01/18	< MDL 0.2	2	No	No

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Chlorpyrifos (ug/L) -TW5	2024/01/18	< MDL 0.5	90	No	No
Diazinon (ug/L)-TW5	2024/01/18	< MDL 1	20	No	No
Dicamba (ug/L)-TW5	2024/01/18	< MDL 1	120	No	No
Dichloromethane (Methylene Chloride) (ug/L)-TW5	2024/01/18	< MDL 5	50	No	No
Diclofop-methyl (ug/L)-TW5	2024/01/18	< MDL 0.9	9	No	No
Dimethoate (ug/L)-TW5	2024/01/18	< MDL 1	20	No	No
Diquat (ug/L)-TW5	2024/01/18	< MDL 5	70	No	No
Diuron (ug/L)-TW5	2024/01/18	< MDL 5	150	No	No
Glyphosate (ug/L)-TW5	2024/01/18	< MDL 25	280	No	No
Malathion (ug/L)-TW5	2024/01/18	< MDL 5	190	No	No
Metolachlor (ug/L)-TW5	2024/01/18	< MDL 3	50	No	No
Metribuzin (ug/L)-TW5	2024/01/18	< MDL 3	80	No	No
Monochlorobenzene (Chlorobenzene) (ug/L)-TW5	2024/01/18	< MDL 0.5	80	No	No
Paraquat (ug/L)-TW5	2024/01/18	< MDL 1	10	No	No
PCB (ug/L)-TW5	2024/01/18	< MDL 0.05	3	No	No
Pentachlorophenol (ug/L)-TW5	2024/01/18	< MDL 0.2	60	No	No
Phorate (ug/L)-TW5	2024/01/18	< MDL 0.3	2	No	No
Picloram (ug/L)-TW5	2024/01/18	< MDL 5	190	No	No
Prometryne (ug/L)-TW5	2024/01/18	< MDL 0.1	1	No	No
Simazine (ug/L)-TW5	2024/01/18	< MDL 0.5	10	No	No
Terbufos (ug/L)-TW5	2024/01/18	< MDL 0.5	1	No	No
Tetrachloroethylene (ug/L)-TW5	2024/01/18	< MDL 0.5	10	No	No
Triallate (ug/L) -TW5	2024/01/18	< MDL 10	230	No	No
Trichloroethylene (ug/L)-TW5	2024/01/18	< MDL 0.5	5	No	No
Trifluralin (ug/L)-TW5	2024/01/18	< MDL 0.5	45	No	No
Vinyl Chloride (ug/L)-TW5	2024/01/18	< MDL 0.2	1	No	No

Chesterville Distribution

Distribution samples are tested quarterly for THM's and HAA's in accordance with O. Reg. 170/03.

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
HAA Total (ug/L) Annual Average-DW4	2024/01/01	16.775	80	No	No
Trihalomethane: Total (ug/L) Annual Average-DW3	2024/01/01	36.75	100	No	No

Winchester Distribution

Distribution samples are tested quarterly for THM's and HAA's in accordance with O. Reg. 170/03.

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
HAA Total (ug/L) Annual Average-DW2	2024/01/01	6.2	80	No	No
Trihalomethane: Total (ug/L) Annual Average-DW1	2024/01/01	20.5	100	No	No

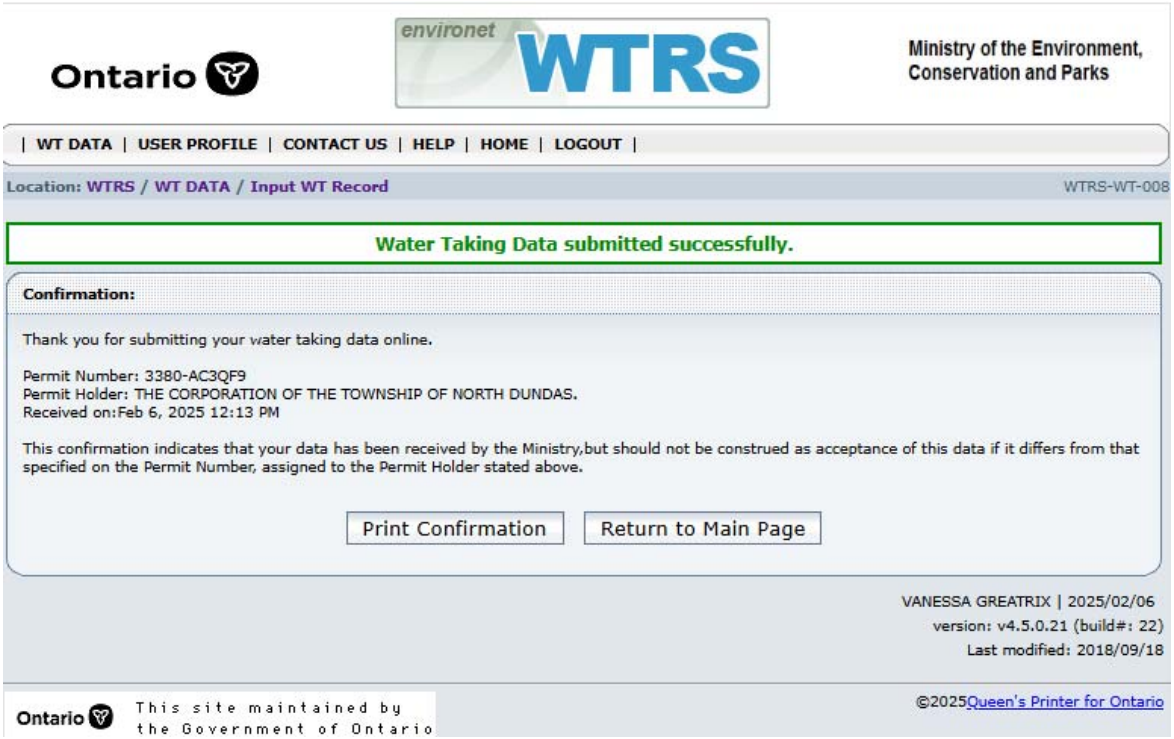
Additional Legislated Samples

No additional sampling required.

Major Maintenance Summary

Description
– Major upgrades completed at Reservoir including new Manganese Dioxide Filtration System and Above Grade Storage Tank (Chesterville) – Installed new VFD on Well #5 (Chesterville) – Replaced pressure switch on Well #5 (Chesterville) – Replaced hydrant valve at Arena (Chesterville) – Rebuilt 2 valves at the corner of Brennan & Industrial (Chesterville) – Rebuilt Hydrant #'s 39, 53, 59 & 90 (Chesterville) – Completed annual generator maintenance (Chesterville & Winchester) – New chlorine analyzer installed at Well #1 (Winchester) – New flow meter installed at Well #7 (Winchester) – Repaired broken Hydrant #44 at Centre & Queen St. (Winchester) – Installed new bulk head fittings on sodium hypochlorite tanks at Well #1 and Reservoir (Winchester) – Watermain was repaired at Lactalis along with installation of a new hydrant and isolation valve (Winchester) – Installed new VFD on high lift pump at Reservoir (Winchester) – Installed new backflush valve at Well #5 (Winchester) – Repaired service at 606 Main St. (Winchester) – Repaired gate at Water Tower (Winchester) – Installed new chlorine pumps at Well #1 & Reservoir (Winchester) – Installed new chlorine analyzer at Reservoir (Winchester) – Repaired High Lift Pump #2 at Reservoir (Winchester) – Replaced valve on hydrant at Caleb & Albert St. (Winchester) – Replace UPS battery back up devices (Winchester) – Repaired valve at Fred & Louise St. (Winchester) – Performed electrical repairs at Well #1 (Winchester) – Purchased new pump & motor for Well #6 (Winchester) – Rebuilt Hydrant #'s 7, 8, 30, 41, 43A, 59, 135, 138, 140 (Winchester)

Appendix A - WTRS Submission Confirmation



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Confirmation:

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Permit Number: 3380-AC3QF9
Permit Holder: THE CORPORATION OF THE TOWNSHIP OF NORTH DUNDAS.
Received on:Feb 6, 2025 12:13 PM

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version: v4.5.0.21 (build#: 22)
Last modified: 2018/09/18

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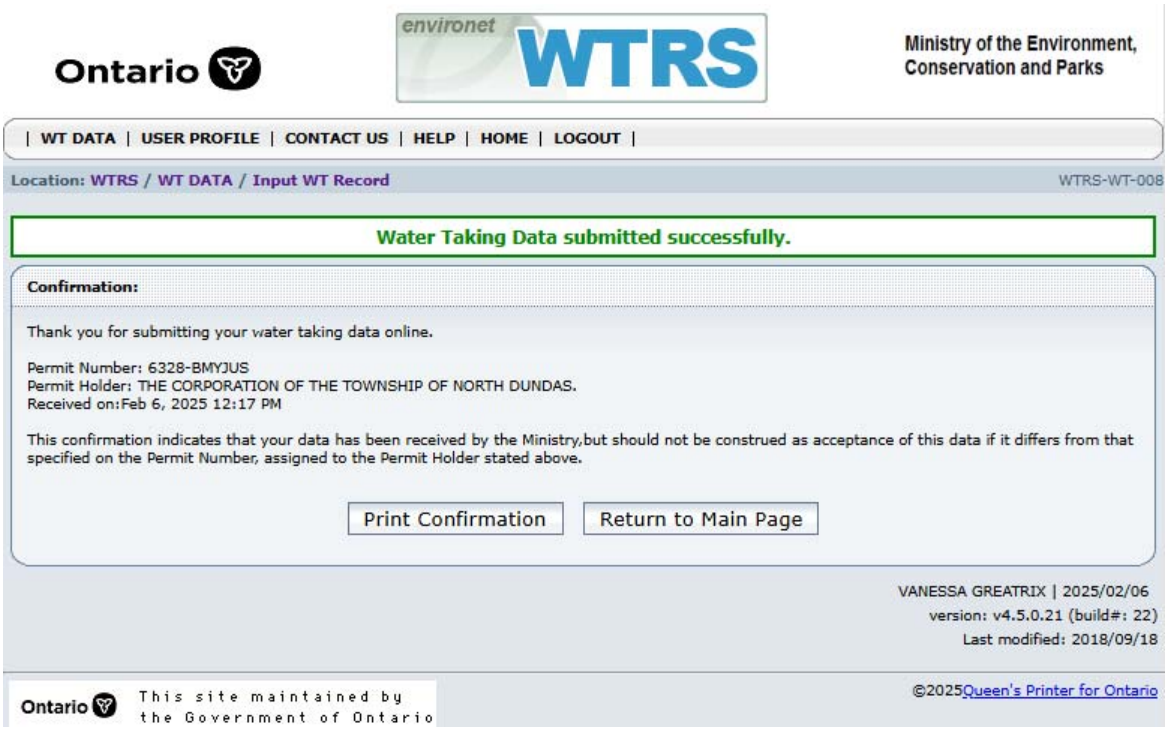

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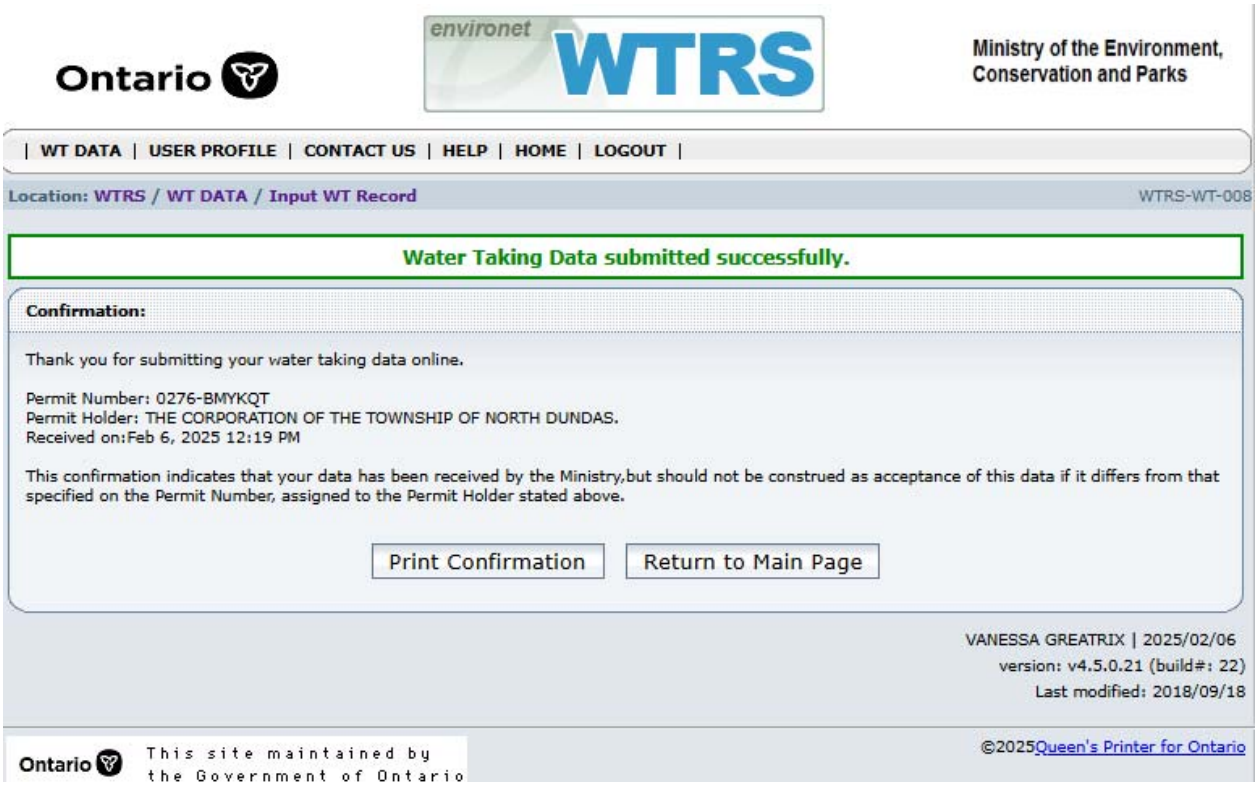

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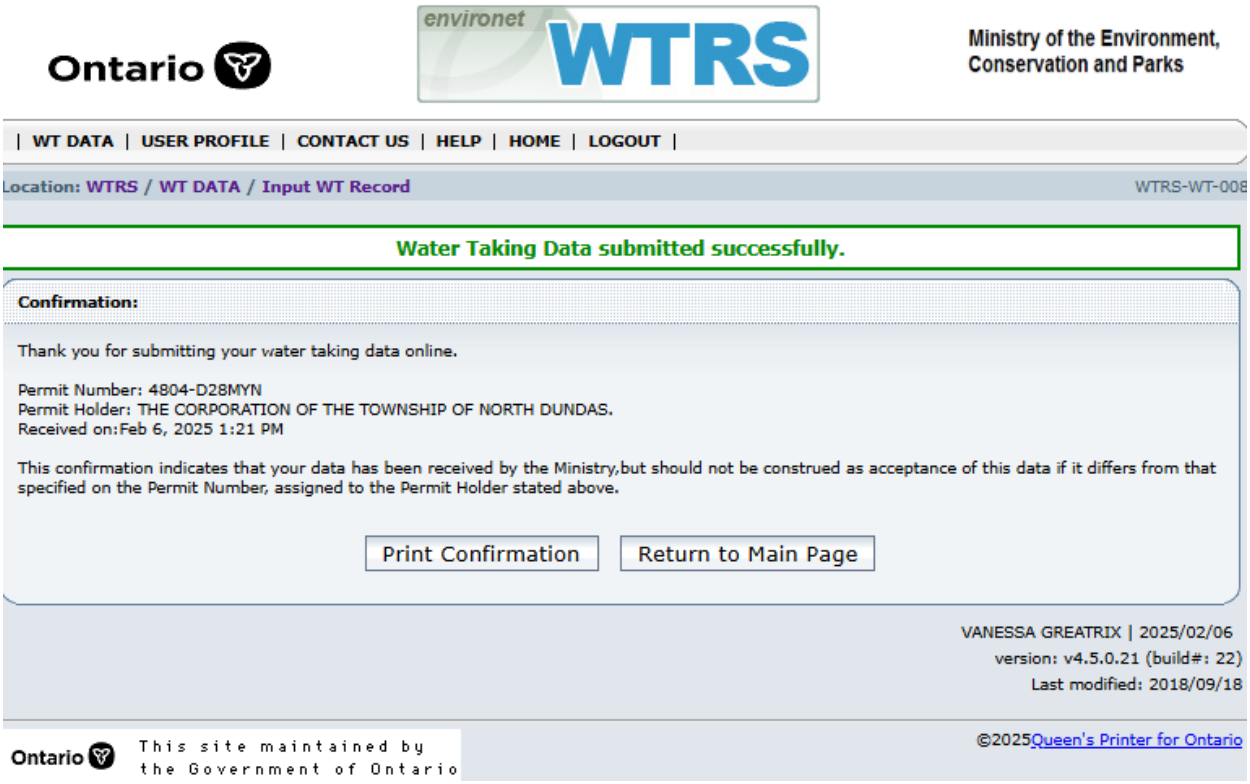

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Permit Holder: THE CORPORATION OF THE TOWNSHIP OF NORTH DUNDAS.
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version: v4.5.0.21 (build#: 22)
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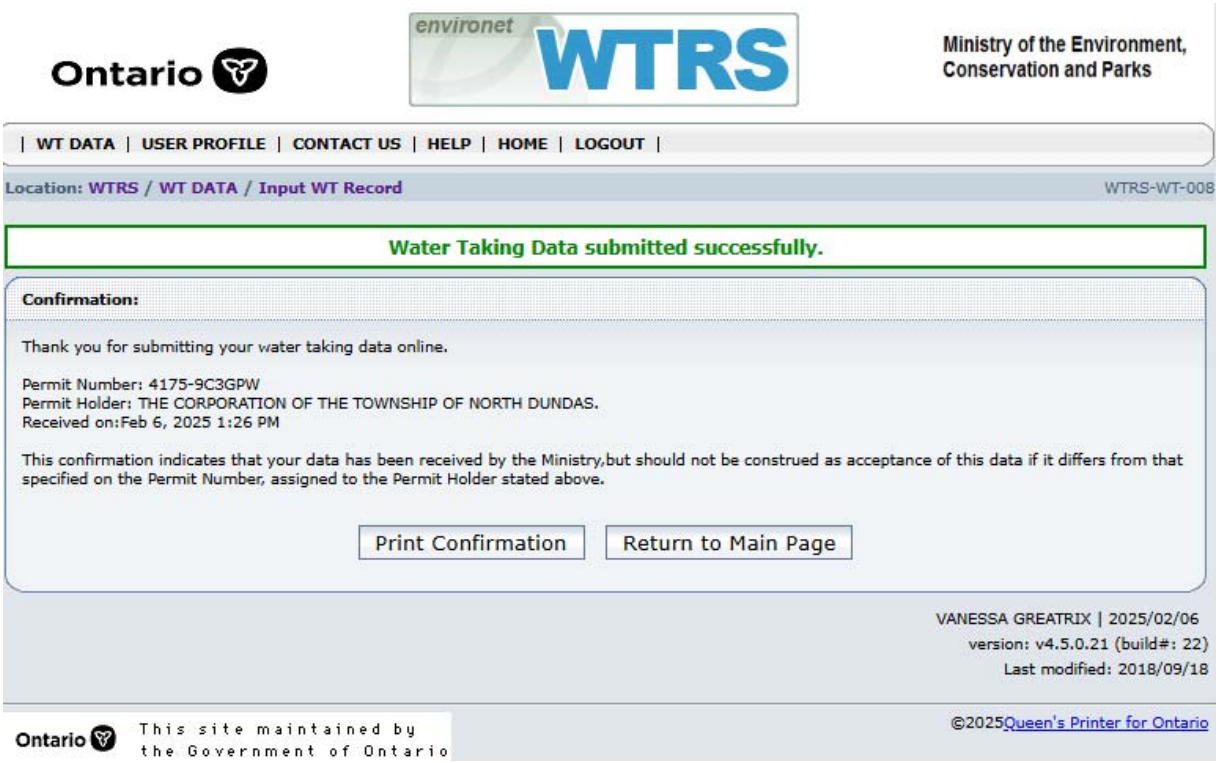

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Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 4175-9C3GPW
Permit Holder: THE CORPORATION OF THE TOWNSHIP OF NORTH DUNDAS.
Received on:Feb 6, 2025 1:26 PM

This confirmation indicates that your data has been received by the Ministry,but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

Print Confirmation | Return to Main Page

VANESSA GREATRIX | 2025/02/06
version: v4.5.0.21 (build#: 22)
Last modified: 2018/09/18

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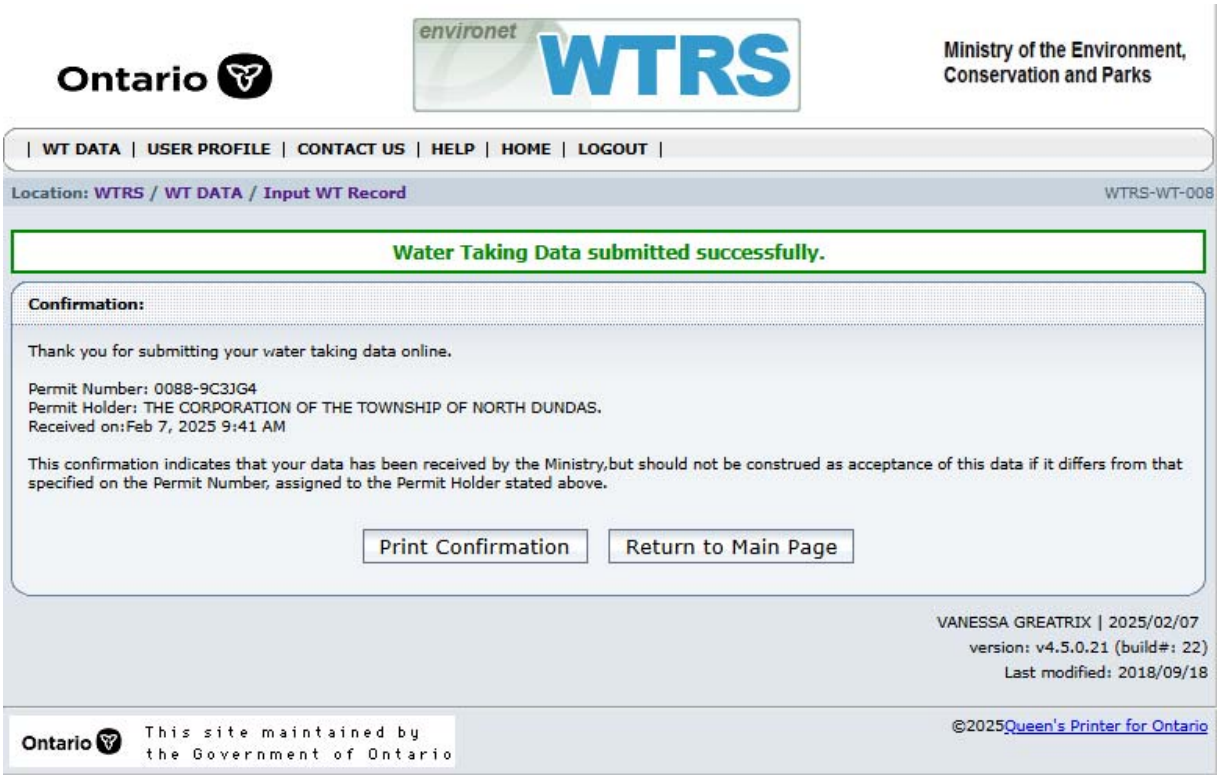

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Ministry of the Environment, Conservation and Parks

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Location: WTRS / WT DATA / Input WT Record WTRS-WT-008

Water Taking Data submitted successfully.

Confirmation:

Thank you for submitting your water taking data online.

Permit Number: 0088-9C3JG4
Permit Holder: THE CORPORATION OF THE TOWNSHIP OF NORTH DUNDAS.
Received on:Feb 7, 2025 9:41 AM

This confirmation indicates that your data has been received by the Ministry,but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

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VANESSA GREATRIX | 2025/02/07
version: v4.5.0.21 (build#: 22)
Last modified: 2018/09/18

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NORTH DUNDAS DRINKING WATER SYSTEM / Raw Well #1 Winch

Yearly Summary (Flow) 2024

Annual Values and Summary **Units:** cubic meter per day

Station: **Daily Max:** 257.0 on August 02

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	154.00	147.00	143.00	149.00	147.00	248.00	171.00	196.00	126.00	163.00	136.00	22.00
2	155.00	145.00	152.00	144.00	180.00	227.00	183.00	257.00	164.00	157.00	107.00	42.00
3	142.00	153.00	147.00	173.00	160.00	211.00	190.00	201.00	150.00	146.00	146.00	143.00
4	154.00	149.00	142.00	122.00	139.00	243.00	169.00	197.00	161.00	102.00	102.00	115.00
5	143.00	143.00	150.00	91.00	155.00	211.00	156.00	207.00	151.00	0.00	125.00	90.00
6	148.00	148.00	151.00	151.00	166.00	176.00	208.00	214.00	157.00	0.00	111.00	108.00
7	154.00	151.00	148.00	146.00	201.00	204.00	175.00	130.00	154.00	1.00	132.00	112.00
8	149.00	114.00	139.00	139.00	161.00	186.00	214.00	171.00	160.00	55.00	114.00	113.00
9	144.00	146.00	151.00	150.00	154.00	201.00	188.00	148.00	165.00	111.00	116.00	118.00
10	164.00	153.00	137.00	149.00	162.00	206.00	132.00	155.00	132.00	94.00	135.00	144.00
11	154.00	150.00	153.00	145.00	137.00	183.00	161.00	176.00	173.00	170.00	127.00	133.00
12	150.00	145.00	147.00	145.00	146.00	168.00	147.00	137.00	155.00	129.00	124.00	132.00
13	145.00	146.00	143.00	143.00	150.00	207.00	174.00	177.00	156.00	155.00	99.00	146.00
14	149.00	151.00	148.00	145.00	135.00	210.00	169.00	184.00	186.00	160.00	125.00	122.00
15	149.00	150.00	150.00	155.00	167.00	248.00	134.00	137.00	163.00	160.00	106.00	147.00
16	143.00	144.00	148.00	142.00	169.00	246.00	172.00	194.00	144.00	141.00	123.00	148.00
17	152.00	146.00	143.00	141.00	151.00	243.00	161.00	163.00	168.00	137.00	139.00	103.00
18	152.00	153.00	144.00	148.00	174.00	201.00	166.00	162.00	170.00	138.00	117.00	164.00
19	145.00	148.00	150.00	146.00	131.00	177.00	233.00	180.00	132.00	110.00	128.00	134.00
20	148.00	142.00	144.00	141.00	226.00	179.00	254.00	183.00	159.00	121.00	108.00	157.00
21	152.00	159.00	141.00	146.00	149.00	173.00	206.00	137.00	178.00	116.00	77.00	105.00
22	144.00	139.00	144.00	145.00	169.00	168.00	3.00	145.00	143.00	180.00	120.00	149.00
23	139.00	151.00	144.00	141.00	158.00	155.00	134.00	170.00	206.00	134.00	49.00	128.00
24	144.00	148.00	149.00	147.00	174.00	155.00	194.00	148.00	160.00	111.00	14.00	145.00
25	206.00	145.00	151.00	172.00	168.00	143.00	138.00	174.00	70.00	131.00	58.00	104.00
26	143.00	144.00	145.00	177.00	156.00	1.00	102.00	172.00	104.00	129.00	30.00	130.00
27	147.00	151.00	141.00	185.00	172.00	129.00	0.00	162.00	172.00	155.00	103.00	118.00
28	152.00	150.00	147.00	172.00	125.00	155.00	0.00	147.00	180.00	114.00	132.00	139.00
29	143.00	88.00	146.00	172.00	130.00	157.00	117.00	148.00	158.00	129.00	115.00	115.00
30	145.00		141.00	191.00	202.00	167.00	137.00	144.00	169.00	117.00	107.00	136.00
31	151.00		147.00		242.00		186.00	169.00		137.00		155.00

NORTH DUNDAS DRINKING WATER SYSTEM / Raw Well #5 Chest

Yearly Summary (Flow) 2024

Annual Values and Summary **Units:** cubic meter per day

Station: **Daily Max:** 1451.0 on July 21

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	761.00	739.00	739.00	768.00	808.00	1438.00	850.00	960.00	405.00	287.00	402.00	422.00
2	756.00	735.00	761.00	735.00	958.00	1321.00	921.00	1318.00	343.00	441.00	360.00	307.00
3	708.00	774.00	737.00	671.00	876.00	1221.00	974.00	1051.00	304.00	308.00	477.00	339.00
4	778.00	752.00	717.00	663.00	759.00	1433.00	859.00	1043.00	589.00	395.00	380.00	393.00
5	700.00	716.00	756.00	456.00	836.00	1230.00	798.00	1331.00	363.00	439.00	256.00	278.00
6	730.00	753.00	766.00	765.00	917.00	1007.00	1070.00	1174.00	404.00	379.00	484.00	394.00
7	756.00	764.00	743.00	743.00	1107.00	1156.00	907.00	693.00	358.00	404.00	266.00	406.00
8	730.00	567.00	733.00	722.00	884.00	1052.00	1137.00	900.00	402.00	322.00	421.00	417.00
9	721.00	729.00	762.00	762.00	843.00	1140.00	975.00	804.00	307.00	275.00	393.00	379.00
10	732.00	768.00	693.00	761.00	882.00	1176.00	696.00	801.00	387.00	278.00	413.00	339.00
11	770.00	755.00	771.00	742.00	739.00	1035.00	835.00	919.00	291.00	533.00	286.00	397.00
12	746.00	722.00	746.00	742.00	777.00	928.00	787.00	721.00	412.00	438.00	400.00	395.00
13	722.00	738.00	724.00	733.00	822.00	1149.00	905.00	917.00	406.00	373.00	320.00	342.00
14	747.00	763.00	754.00	750.00	701.00	1177.00	879.00	967.00	367.00	392.00	377.00	410.00
15	757.00	758.00	763.00	758.00	903.00	1425.00	705.00	708.00	447.00	350.00	332.00	430.00
16	711.00	725.00	755.00	726.00	905.00	1424.00	889.00	1016.00	324.00	587.00	370.00	382.00
17	758.00	734.00	728.00	727.00	808.00	1420.00	828.00	863.00	397.00	397.00	470.00	5.00
18	775.00	772.00	759.00	785.00	933.00	1155.00	862.00	854.00	347.00	351.00	393.00	678.00
19	726.00	748.00	764.00	746.00	700.00	988.00	1238.00	951.00	325.00	325.00	279.00	437.00
20	744.00	706.00	730.00	721.00	1235.00	967.00	1406.00	936.00	469.00	442.00	439.00	364.00
21	765.00	750.00	758.00	752.00	828.00	956.00	1451.00	836.00	302.00	375.00	372.00	394.00
22	718.00	705.00	734.00	761.00	921.00	912.00	355.00	445.00	493.00	284.00	269.00	403.00
23	712.00	763.00	733.00	726.00	868.00	823.00	674.00	297.00	327.00	753.00	424.00	371.00
24	727.00	751.00	764.00	761.00	949.00	857.00		441.00	374.00	354.00	436.00	362.00
25	738.00	737.00	767.00	898.00	925.00	747.00	705.00	352.00	364.00	281.00	319.00	361.00
26	728.00	734.00	738.00	939.00	860.00	1113.00	934.00	431.00	303.00	423.00	315.00	375.00
27	752.00	768.00	725.00	994.00	947.00	1025.00	1004.00	381.00	488.00	444.00	390.00	390.00
28	767.00	760.00	774.00	936.00	701.00	756.00	1107.00	484.00	332.00	393.00	363.00	359.00
29	722.00	1044.00	745.00	959.00	685.00	780.00	875.00	312.00	378.00	355.00	260.00	353.00
30	736.00		723.00	1050.00	1092.00	823.00	677.00	416.00	363.00	378.00	420.00	344.00
31	762.00		757.00		1382.00		876.00	304.00		253.00		343.00

NORTH DUNDAS DRINKING WATER SYSTEM / Raw Well #5 Winch

Yearly Summary (Flow) 2024

Annual Values and Summary **Units:** cubic meter per day

Station: **Daily Max:** 269.0 on May 31

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	188.00	217.00	196.00	244.00	172.00	269.00	187.00	197.00	141.00	194.00	183.00	212.00
2	183.00	185.00	183.00	186.00	219.00	269.00	181.00	269.00	176.00	175.00	159.00	158.00
3	146.00	162.00	194.00	171.00	182.00	240.00	34.00	202.00	166.00	163.00	204.00	179.00
4	168.00	151.00	144.00	192.00	196.00	269.00	112.00	7.00	177.00	217.00	144.00	143.00
5	186.00	179.00	207.00	268.00	185.00	242.00	166.00	1.00	162.00	185.00	180.00	233.00
6	188.00	98.00	193.00	177.00	214.00	199.00	57.00	124.00	173.00	145.00	154.00	224.00
7	195.00	178.00	214.00	268.00	193.00	216.00	1.00	136.00	173.00	83.00	187.00	154.00
8	124.00	196.00	190.00	152.00	185.00	229.00	93.00	186.00	173.00	186.00	150.00	165.00
9	161.00	210.00	66.00	268.00	182.00	221.00	132.00	165.00	124.00	218.00	164.00	149.00
10	188.00	190.00	199.00	268.00	184.00	228.00	142.00	175.00	155.00	268.00	190.00	176.00
11	123.00	178.00	208.00	217.00	156.00	212.00	169.00	180.00	190.00	226.00	174.00	156.00
12	97.00	167.00	199.00	125.00	173.00	187.00	169.00	148.00	167.00	179.00	171.00	170.00
13	149.00	200.00	36.00	210.00	181.00	225.00	183.00	196.00	179.00	218.00	139.00	178.00
14	200.00	208.00	144.00	166.00	152.00	230.00	178.00	197.00	195.00	230.00	178.00	150.00
15	187.00	186.00	194.00	164.00	86.00	269.00	152.00	153.00	219.00	235.00	146.00	193.00
16	183.00	155.00	130.00	70.00	128.00	269.00	176.00	202.00	167.00	220.00	219.00	121.00
17	204.00	217.00	209.00	215.00	175.00	269.00	176.00	169.00	191.00	128.00	189.00	168.00
18	183.00	213.00	163.00	136.00	200.00	228.00	183.00	172.00	199.00	128.00	181.00	196.00
19	204.00	197.00	216.00	211.00	159.00	202.00	235.00	200.00	155.00	218.00	172.00	164.00
20	268.00	225.00	214.00	200.00	186.00	188.00	269.00	188.00	195.00	165.00	156.00	199.00
21	143.00	34.00	188.00	209.00	177.00	195.00	262.00	158.00	205.00	86.00	107.00	140.00
22	166.00	206.00	181.00	192.00	203.00	178.00	231.00	155.00	174.00	177.00	166.00	180.00
23	141.00	202.00	189.00	199.00	165.00	170.00	269.00	195.00	228.00	184.00	229.00	174.00
24	173.00	167.00	201.00	268.00	191.00	181.00	199.00	168.00	185.00	154.00	268.00	179.00
25	207.00	204.00	214.00	268.00	167.00	181.00	157.00	140.00	82.00	187.00	268.00	52.00
26	165.00	198.00	181.00	205.00	168.00	2.00	166.00	196.00	127.00	168.00	268.00	164.00
27	185.00	182.00	187.00	176.00	124.00	1.00	183.00	176.00	193.00	222.00	188.00	153.00
28	181.00	189.00	268.00	178.00	86.00	84.00	185.00	172.00	212.00	165.00	161.00	177.00
29	185.00	268.00	268.00	203.00	140.00	159.00	169.00	170.00	181.00	172.00	183.00	143.00
30	190.00		268.00	178.00	224.00	167.00	146.00	156.00	195.00	167.00	177.00	163.00

31	192.00		142.00		269.00		174.00	184.00		162.00		115.00

NORTH DUNDAS DRINKING WATER SYSTEM / Raw Well #6 Chest

Yearly Summary (Flow) 2024

Annual Values and Summary **Units:** cubic meter per day

Station: **Daily Max:** 1284.0 on October 10

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	407.00	366.00	301.00	362.00	340.00	444.00	411.00	285.00	660.00	842.00	956.00	127.00
2	416.00	374.00	329.00	263.00	334.00	494.00	293.00	525.00	863.00	817.00	740.00	247.00
3	351.00	412.00	441.00	290.00	318.00	421.00	265.00	369.00	786.00	750.00	1022.00	857.00
4	354.00	437.00	332.00	329.00	394.00	473.00	476.00	386.00	848.00	1089.00	718.00	712.00
5	403.00	384.00	340.00	232.00	413.00	497.00	411.00	312.00	803.00	961.00	845.00	570.00
6	413.00	372.00	334.00	385.00	368.00	496.00	304.00	355.00	827.00	1019.00	767.00	661.00
7	423.00	384.00	330.00	370.00	383.00	281.00	436.00	344.00	814.00	979.00	912.00	698.00
8	363.00	334.00	315.00	236.00	351.00	292.00	222.00	331.00	847.00	721.00	779.00	872.00
9	365.00	312.00	347.00	360.00	344.00	457.00	499.00	431.00	870.00	1022.00	797.00	709.00
10	394.00	352.00	344.00	313.00	338.00	311.00	384.00	395.00	692.00	1284.00	922.00	823.00
11	394.00	357.00	311.00	313.00	362.00	438.00	276.00	328.00	906.00	1032.00	883.00	771.00
12	357.00	330.00	272.00	272.00	367.00	318.00	401.00	500.00	791.00	789.00	866.00	778.00
13	409.00	302.00	341.00	332.00	339.00	340.00	337.00	499.00	825.00	980.00	681.00	868.00
14	450.00	300.00	293.00	391.00	313.00	323.00	477.00	365.00	993.00	1031.00	850.00	737.00
15	382.00	286.00	320.00	313.00	320.00	314.00	314.00	324.00	872.00	1074.00	725.00	884.00
16	370.00	311.00	332.00	274.00	419.00	460.00	398.00	408.00	771.00	938.00	850.00	903.00
17	376.00	361.00	374.00	336.00	370.00	455.00	296.00	300.00	887.00	916.00	970.00	584.00
18	230.00	346.00	285.00	308.00	366.00	436.00	402.00	408.00	904.00	934.00	799.00	974.00
19	479.00	311.00	329.00	329.00	503.00	347.00	290.00	310.00	696.00	733.00	888.00	838.00
20	408.00	398.00	304.00	357.00	522.00	410.00	411.00	301.00	834.00	790.00	741.00	983.00
21	496.00	310.00	311.00	377.00	582.00	283.00	337.00	570.00	932.00	761.00	522.00	650.00
22	376.00	316.00	309.00	281.00	441.00	408.00	347.00	765.00	740.00	1230.00	811.00	923.00
23	389.00	308.00	329.00	355.00	698.00	317.00	348.00	898.00	1122.00	922.00	332.00	796.00
24	378.00	338.00	348.00	317.00	376.00	375.00	384.00	782.00	843.00	758.00	79.00	879.00
25	377.00	331.00	340.00	324.00	322.00	280.00	303.00	935.00	353.00	876.00	136.00	632.00
26	377.00	408.00	311.00	343.00	483.00	388.00	295.00	940.00	559.00	875.00	239.00	777.00
27	414.00	294.00	307.00	327.00	391.00	290.00	420.00	885.00	869.00	1070.00	595.00	694.00
28	427.00	317.00	309.00	427.00	314.00	298.00	357.00	788.00	926.00	784.00	806.00	830.00
29	389.00	303.00	319.00	321.00	325.00	394.00	395.00	806.00	814.00	887.00	712.00	688.00
30	425.00		335.00	307.00	350.00	299.00	402.00	767.00	878.00	803.00	683.00	812.00

31	381.00		352.00		309.00		422.00	897.00		954.00		921.00

NORTH DUNDAS DRINKING WATER SYSTEM / Raw Well #6 Winch

Yearly Summary (Flow) 2024

Annual Values and Summary **Units:** cubic meter per day

Station: **Daily Max:** 534.0 on April 24

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	351.00	390.00	361.00	445.00	316.00	507.00	332.00	356.00	266.00	399.00	320.00	357.00
2	306.00	336.00	351.00	342.00	410.00	489.00	325.00	484.00	320.00	312.00	281.00	264.00
3	266.00	293.00	364.00	308.00	335.00	432.00	200.00	357.00	299.00	271.00	351.00	302.00
4	228.00	272.00	268.00	364.00	307.00	482.00	313.00	10.00	324.00	389.00	248.00	242.00
5	340.00	345.00	382.00	487.00	345.00	431.00	289.00	0.00	300.00	325.00	314.00	396.00
6	348.00	191.00	353.00	331.00	362.00	362.00	101.00	203.00	315.00	336.00	268.00	374.00
7	357.00	323.00	393.00	483.00	348.00	279.00	0.00	243.00	308.00	330.00	321.00	262.00
8	234.00	372.00	351.00	278.00	341.00	409.00	108.00	333.00	319.00	323.00	260.00	275.00
9	292.00	377.00	280.00	493.00	343.00	396.00	236.00	292.00	313.00	406.00	285.00	251.00
10	346.00	346.00	375.00	485.00	340.00	411.00	257.00	310.00	283.00	483.00	332.00	300.00
11	276.00	331.00	387.00	399.00	291.00	372.00	305.00	321.00	340.00	14.00	296.00	268.00
12	258.00	303.00	378.00	241.00	328.00	336.00	305.00	267.00	303.00	0.00	299.00	292.00
13	290.00	367.00	242.00	393.00	331.00	410.00	330.00	349.00	325.00	0.00	239.00	302.00
14	366.00	379.00	415.00	337.00	287.00	422.00	321.00	350.00	350.00	0.00	306.00	254.00
15	347.00	342.00	364.00	307.00	355.00	506.00	275.00	271.00	320.00	248.00	252.00	330.00
16	333.00	284.00	247.00	130.00	369.00	523.00	316.00	358.00	297.00	403.00	307.00	237.00
17	371.00	398.00	392.00	403.00	323.00	513.00	316.00	300.00	339.00	330.00	321.00	206.00
18	342.00	213.00	308.00	259.00	370.00	406.00	330.00	407.00	353.00	333.00	315.00	340.00
19	302.00	0.00	404.00	395.00	299.00	356.00	421.00	362.00	278.00	260.00	291.00	125.00
20	89.00	163.00	397.00	375.00	342.00	293.00	480.00	333.00	355.00	295.00	269.00	182.00
21	214.00	250.00	351.00	386.00	326.00	345.00	467.00	281.00	363.00	263.00	183.00	248.00
22	310.00	384.00	334.00	357.00	375.00	315.00	431.00	282.00	312.00	349.00	284.00	321.00
23	256.00	372.00	357.00	406.00	300.00	303.00	497.00	337.00	413.00	316.00	391.00	306.00
24	381.00	306.00	373.00	534.00	348.00	319.00	349.00	301.00	318.00	268.00	454.00	314.00
25	379.00	379.00	396.00	498.00	303.00	323.00	278.00	243.00	156.00	330.00	443.00	226.00
26	301.00	362.00	340.00	372.00	306.00	356.00	294.00	355.00	229.00	290.00	439.00	294.00
27	335.00	340.00	356.00	327.00	308.00	352.00	325.00	322.00	340.00	385.00	313.00	274.00
28	328.00	357.00	530.00	329.00	255.00	279.00	330.00	317.00	376.00	290.00	272.00	316.00
29	339.00	485.00	527.00	388.00	256.00	284.00	302.00	307.00	321.00	128.00	313.00	253.00
30	346.00		491.00	322.00	413.00	298.00	260.00	288.00	344.00	0.00	297.00	293.00

31	348.00		266.00		499.00		310.00	331.00		182.00		188.00

NORTH DUNDAS DRINKING WATER SYSTEM / Raw Wellfield #7 Winch

Yearly Summary (Flow) 2024

Annual Values and Summary **Units:** cubic meter per day

Station: **Daily Max:** 1774.0 on March 29

Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1175.00	1270.00	1203.00	1483.00	1062.00	498.00	784.00	464.00	824.00	1138.00	1104.00	1268.00
2	1105.00	1128.00	1123.00	1145.00	1023.00	762.00	1119.00	912.00	1024.00	1054.00	950.00	1541.00
3	898.00	996.00	1187.00	1054.00	1115.00	676.00	1230.00	957.00	1028.00	1016.00	1217.00	1006.00
4	1033.00	922.00	894.00	854.00	1012.00	754.00	1065.00	929.00	1070.00	799.00	824.00	806.00
5	1144.00	1095.00	1289.00	1672.00	1140.00	987.00	983.00	940.00	985.00	1113.00	964.00	1223.00
6	1170.00	609.00	1194.00	1111.00	1021.00	1110.00	1335.00	1147.00	1043.00	1151.00	878.00	1275.00
7	1196.00	1101.00	1313.00	1652.00	1405.00	809.00	1160.00	830.00	1046.00	1089.00	1063.00	878.00
8	781.00	1231.00	1178.00	1114.00	1151.00	642.00	1401.00	1106.00	1044.00	1065.00	863.00	932.00
9	1001.00	1314.00	1136.00	1645.00	810.00	620.00	1185.00	1003.00	1024.00	921.00	929.00	876.00
10	1265.00	1180.00	1228.00	1627.00	1148.00	699.00	809.00	1062.00	887.00	1632.00	1080.00	1041.00
11	1232.00	1108.00	1281.00	1328.00	980.00	924.00	1034.00	1103.00	1096.00	1282.00	774.00	929.00
12	878.00	1021.00	1223.00	772.00	1076.00	1135.00	1028.00	870.00	958.00	1026.00	1025.00	992.00
13	933.00	1220.00	855.00	1285.00	1128.00	860.00	1118.00	1146.00	1030.00	1268.00	833.00	1053.00
14	1246.00	1273.00	1347.00	1111.00	938.00	192.00	1084.00	1152.00	1127.00	270.00	1065.00	897.00
15	1147.00	1143.00	1189.00	1014.00	1172.00	0.00	1245.00	920.00	1027.00	1399.00	871.00	1145.00
16	1122.00	955.00	798.00	431.00	1151.00	189.00	1071.00	1171.00	961.00	1369.00	1063.00	1039.00
17	1249.00	1324.00	1272.00	1340.00	1076.00	1295.00	1070.00	983.00	1127.00	1122.00	1133.00	944.00
18	869.00	1296.00	997.00	846.00	1231.00	1164.00	1115.00	1002.00	1192.00	1136.00	1020.00	1107.00
19	1250.00	1212.00	1344.00	1314.00	977.00	1158.00	406.00	940.00	935.00	870.00	978.00	948.00
20	1623.00	1343.00	1324.00	1247.00	1148.00	995.00	19.00	1235.00	1175.00	992.00	890.00	1034.00
21	1133.00	638.00	1093.00	1291.00	1110.00	1054.00	629.00	960.00	1234.00	868.00	664.00	785.00
22	1090.00	1274.00	1116.00	1170.00	1259.00	1081.00	892.00	968.00	1043.00	905.00	944.00	1015.00
23	877.00	1250.00	1166.00	880.00	1017.00	1042.00	1698.00	1177.00	1361.00	1049.00	1309.00	1008.00
24	1089.00	1033.00	1245.00	1740.00	1183.00	1093.00	1197.00	1019.00	1078.00	883.00	1456.00	1068.00
25	1278.00	1265.00	1310.00	1636.00	1040.00	1109.00	958.00	1152.00	467.00	1072.00	1582.00	763.00
26	1024.00	1201.00	879.00	1231.00	1021.00	1121.00	1011.00	985.00	730.00	954.00	1580.00	987.00
27	1150.00	1109.00	170.00	1056.00	1126.00	1189.00	1112.00	1021.00	1108.00	446.00	1098.00	916.00
28	1114.00	930.00	286.00	913.00	846.00	952.00	1135.00	1003.00	1221.00	959.00	966.00	1055.00
29	1140.00	911.00	1774.00	1573.00	862.00	975.00	1006.00	982.00	1039.00	1046.00	1092.00	857.00
30	1159.00		1661.00	1400.00	243.00	1022.00	857.00	901.00	1122.00	1001.00	1056.00	974.00

31	998.00		878.00		82.00		969.00	1061.00		1155.00		1096.00