

Moose Creek Drinking Water System

Waterworks # 220008033
System Category – Large Municipal Residential

Annual Report

Township of North Stormont

Reporting Period of January 1st – December 31st 2025

Issued: February 25, 2026

Revision: 0

Operating Authority:



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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Revision History

Date	Revision #	Revision Notes
February 25, 2026	0	Issued Annual Report

Report Availability

As Moose Creek's 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 Township of North Stormont's municipal office located at 57A Cockburn Street, Berwick, Ontario and on the Township website (<https://www.northstormont.ca>).

Compliance Report Card

Compliance Event	# of Events
Ministry of Environment Inspections	1
Ministry of Labour Inspections	0
QEMS External Audit	1 (Re-accreditation Audit)
AWQI's/BWA	1/0
Non-Compliance	1
Spills	0
Watermain Breaks	0

System Process Description

Raw Source

Moose Creek's drinking water system draws water from three wells completed in overburden sediments. Well #1R is a 200 mm diameter 15.2 m deep drilled groundwater production well equipped with a submersible well pump rated at 7.43 L/s at 14.3 m total dynamic head (TDH). Well #2 is a 200 mm diameter 30.8 m deep drilled groundwater production well equipped with a submersible well pump rated at 3.5 L/s at 40 m total dynamic head (TDH). Well #3 is a 200 mm diameter 32 m deep drilled groundwater production well equipped with a submersible well pump rated at 3.5 L/s at 42 m total dynamic head (TDH). Well #3 is in the process of being replaced by Well #3R which is a 200 mm diameter 32 m deep drilled groundwater production well equipment with a submersible well pump rated at 3.5 L/s at 42 m total dynamic head (TDH). Water from the three wells is conveyed in separate 50 mm diameter pipes to the pump house for treatment.

Treatment

Sodium hypochlorite is used for both primary and secondary disinfection. It is injected prior to discharge

into a mixing chamber. After passing through the mixing chamber, the chlorinated water enters two clearwells. Two high lift pumps, each rated at 10.4 L/s at 58 m TDH, convey water from the clearwells to the distribution system. Water leaving the treatment plant is continuously monitored for flow and free chlorine residual.

Distribution

The distribution system consists of an elevated tank and approximately 7 km of PVC distribution piping installed in 1993 and 1994. The elevated storage tank is fabricated of steel and mounted on a concrete pedestal. It is located along County Road 15, west of the Village of Moose Creek and has a storage capacity of 622 m³. The storage tank provides for peak hour demands and fire flows.

Treatment Chemicals used during the reporting year

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Jutzi

Summary of Non-Compliance

Adverse Water Quality Incidents

Date	AWQI #	Location	Problem	Details	Corrective Action Taken	Legislation
June 30, 2025	168807	Moose Creek Distribution Water (DW)	Total Coliform result of 1 CFU/100 mL	Total Coliform Resample Results: DW1: 0 CFU/100 mL DW2: 0 CFU/100 mL	Resampled distribution water at AWQI location and downstream from tower.	O. Reg. 170/03

Non-Compliance

Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
O. Reg. 170/03	Two sets of samples are required to be collected in every 12-month period for pH and alkalinity in the distribution system.	Samples were missed for the period of December 15, 2024-April 15, 2025.	The importance of adhering to facility sampling schedules with emphasis on reinforcing existing procedures and ensuring all regulatory samples are collected as required was formally reviewed with operational staff.	Complete

Non-Compliance Identified in a Ministry Inspection

Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
There were no additional non-compliances identified in the Ministry Inspection Report issued November 20, 2025.				

Flows

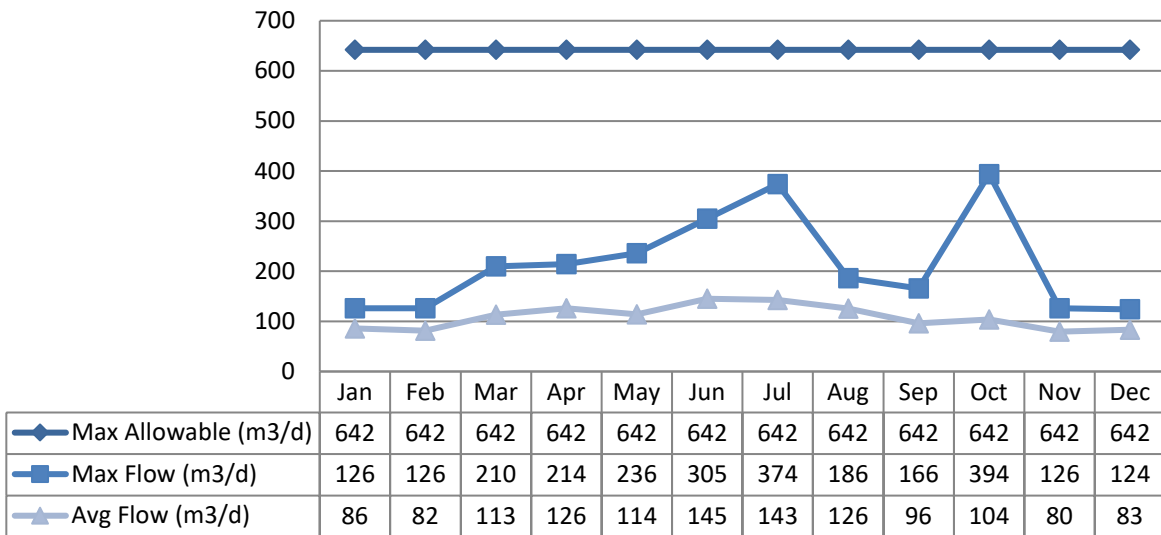
Moose Creek’s drinking water system is operating on average under half the rated capacity.

Raw Water Flows

Raw water flows are regulated under the Permit to Take Water (PTTW). Raw flow data for 2025 was submitted to the Ministry electronically under Permit #4000-9YGLJP & Permit #1807-DMWNVA. The submission confirmation can be found attached in Appendix A.

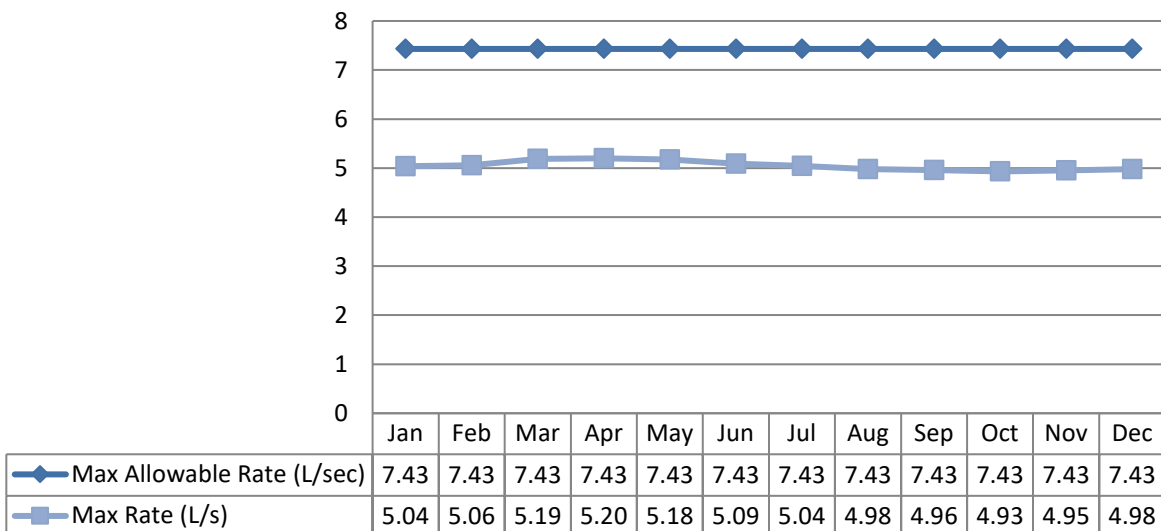
Well #1 - Flows

Max. Allowable Flow - PTTW



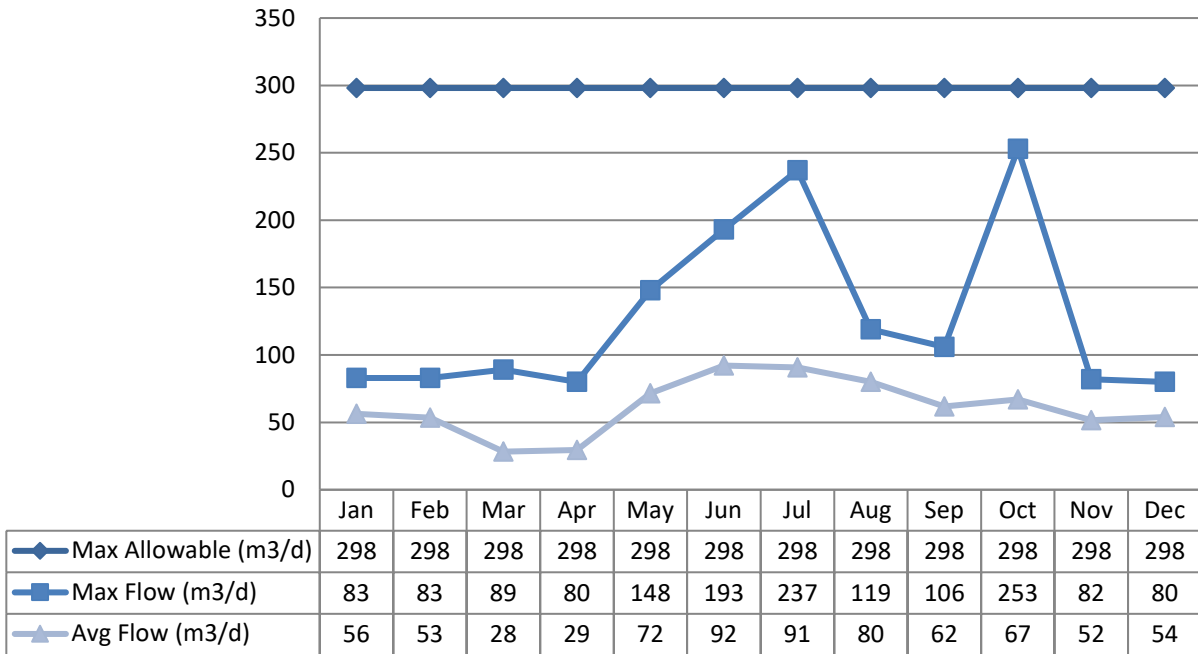
Well #1 - Maximum Flow Rates

Max. Allowable Rate - PTTW



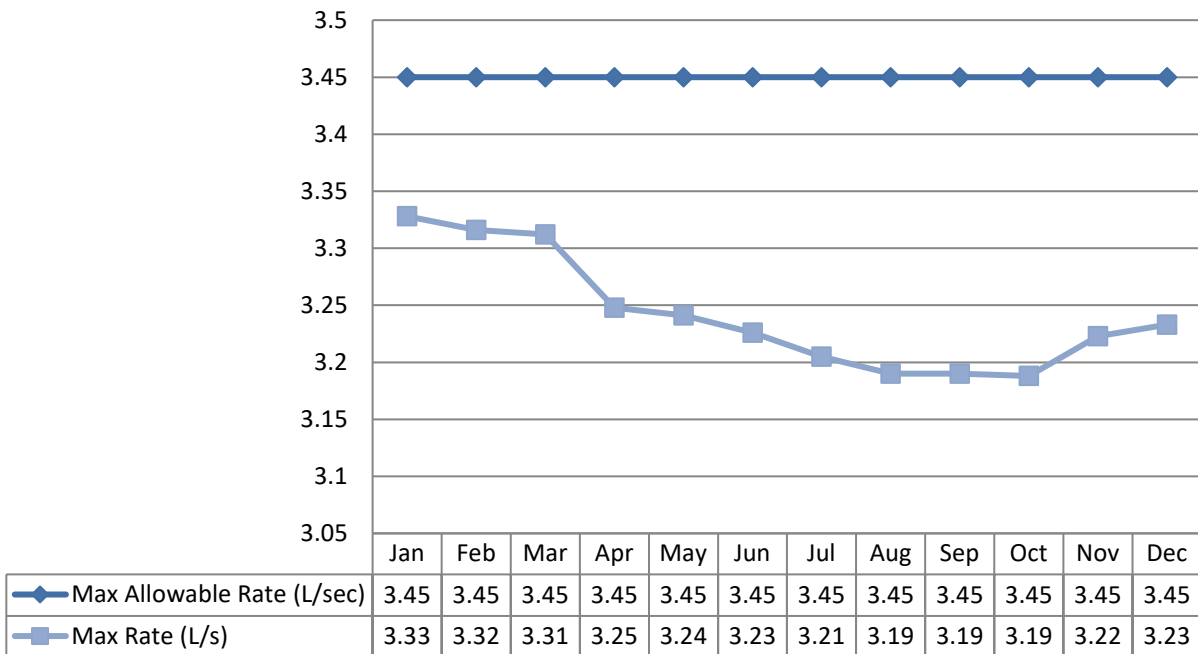
Well #2 - Flows

Max. Allowable Flow - PTTW



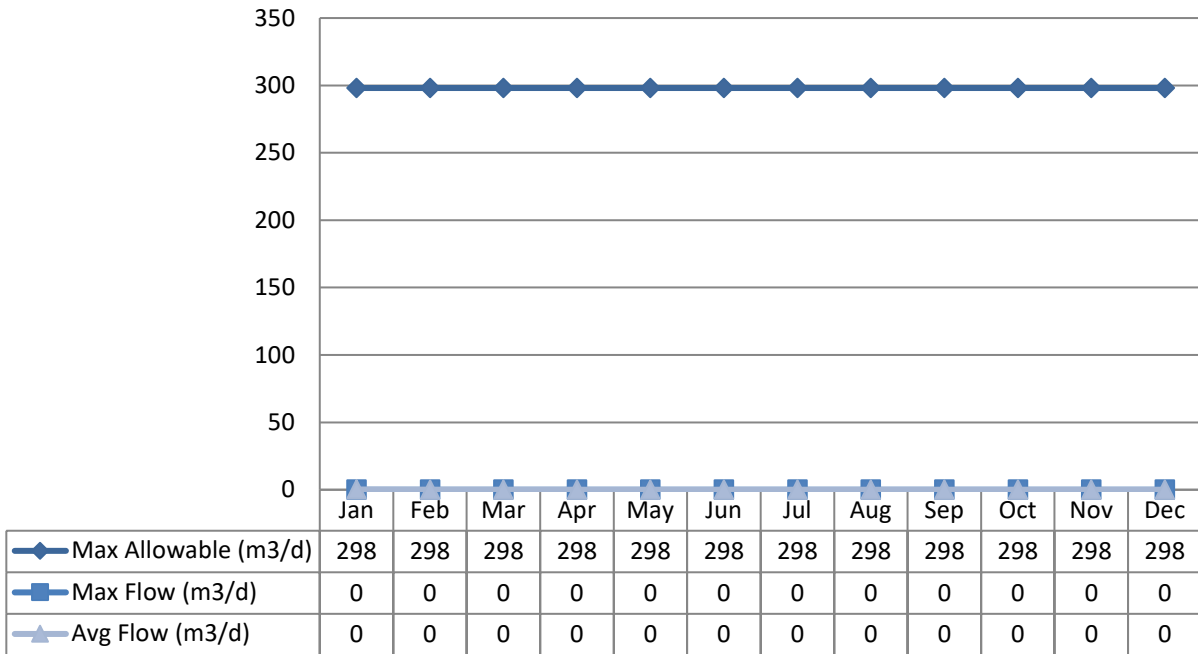
Well #2 - Maximum Flow Rates

Max. Allowable Rate - PTTW



Well #3 - Flows

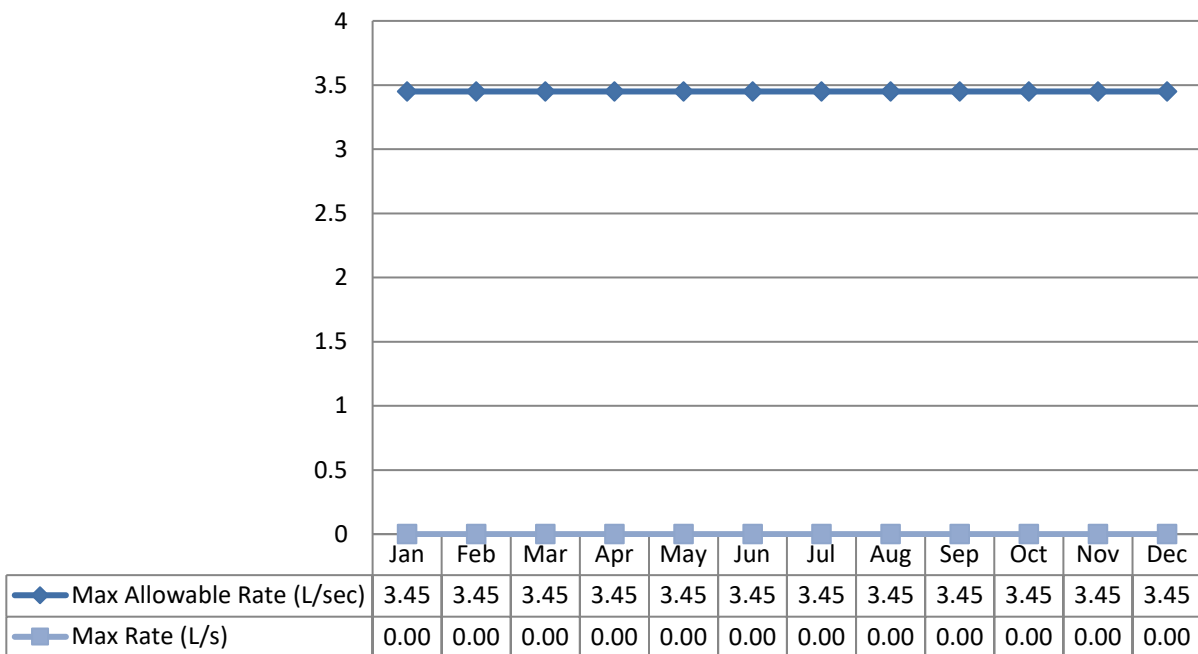
Max. Allowable Flow - PTTW



**Well #3 Offline all of 2025*

Well #3 - Maximum Flow Rates

Max. Allowable Rate - PTTW



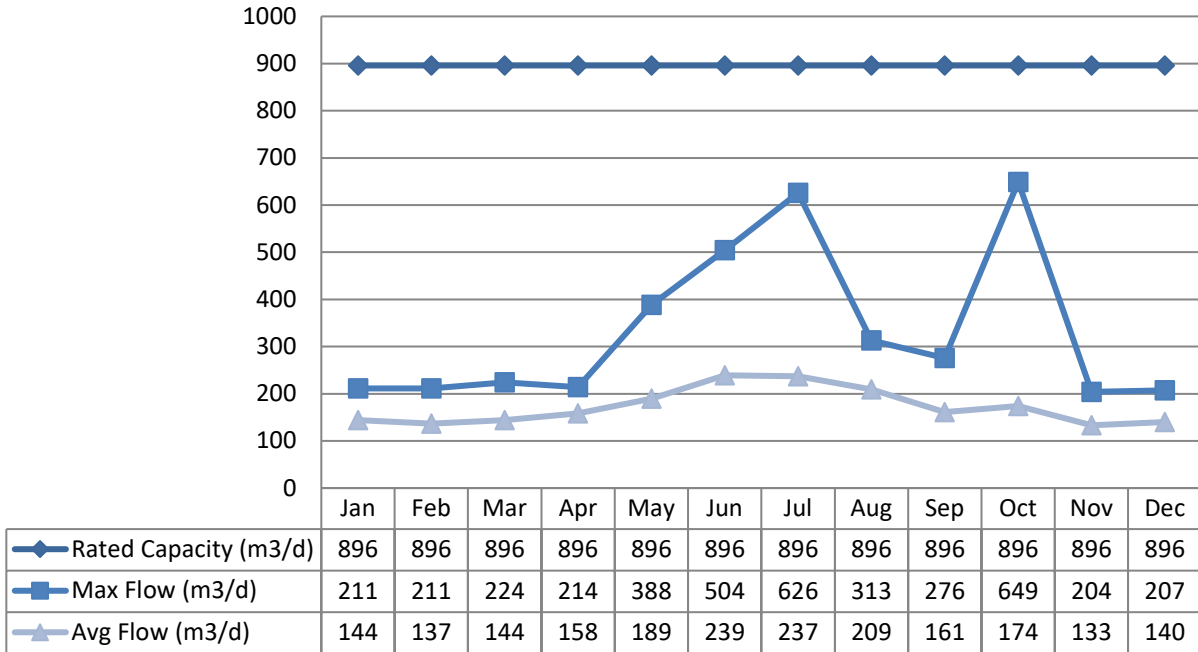
**Well #3 Offline all of 2025*

Treated Water Flows

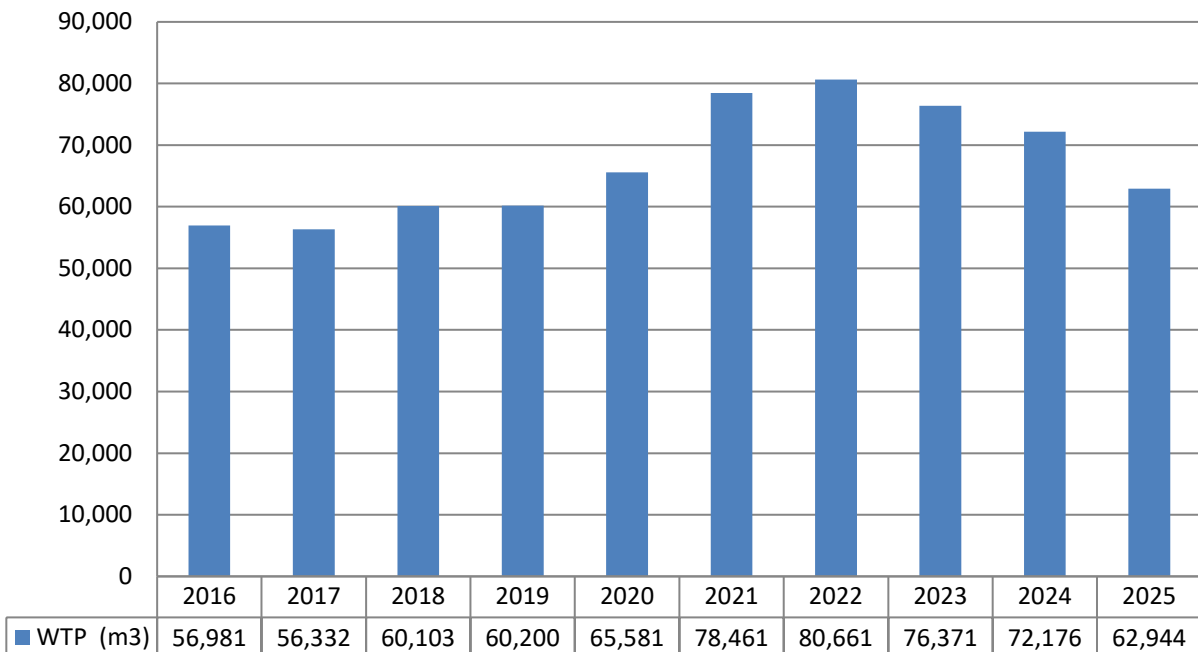
Treated water flows are regulated under the Municipal Drinking Water Licence (MDWL).

Treated Flows

Rated Capacity - MDWL



Annual Total Flow Comparison



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	99	0	0	0	1	0	N/A	N/A
Treated Water	52	0	0	0	0	52	< 2	< 2
Distribution Water	106	0	0	0	1	52	< 2	< 2

*Well #2 offline for 5 weeks and Well #3 offline all of 2025.

Operational Testing

Parameter & Sample Type	No. of Samples Collected	Range of Results		
		Minimum	Average	Maximum
Turbidity; In-House (NTU)- RW1	12	0.17	0.79	1.30
Turbidity; In-House (NTU)- RW2	12	0.30	0.91	1.86
Turbidity; In-House (NTU)- RW3	0*	N/A	N/A	N/A
Free Chlorine Residual; TW Field (mg/L)	53	1.19	1.82	2.55
Free Chlorine Residual; On-Line (mg/L)- TW	8760	0.77	1.97	3.50
Free Chlorine Residual; On-Line (mg/L)- DW1	8760	0.49	1.19	2.14
Free Chlorine Residual; DW Field (mg/L)	116	0.61	1.26	2.09

*Well #3 Offline – in the process of replacing the well.

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

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Antimony: Sb (ug/L) - TW	2024/01/08	< MDL 0.1	6	No	No
Arsenic: As (ug/L) - TW	2024/01/08	0.1	10	No	No
Barium: Ba (ug/L) - TW	2024/01/08	184	1000	No	No
Boron: B (ug/L) - TW	2024/01/08	44	5000	No	No
Cadmium: Cd (ug/L) - TW	2024/01/08	< MDL 0.015	5	No	No

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Chromium: Cr (ug/L) - TW	2024/01/08	< MDL 1	50	No	No
Mercury: Hg (ug/L) - TW	2024/01/08	< MDL 0.02	1	No	No
Selenium: Se (ug/L) - TW	2024/01/08	< MDL 1	50	No	No
Uranium: U (ug/L) - TW	2024/01/08	0.37	20	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2022/01/10	< MDL 0.1	1.5	No	No
Nitrate : (mg/L) - TW	2025/01/13	< MDL 0.05	10	No	No
Nitrate : (mg/L) - TW	2025/04/22	< MDL 0.05	10	No	No
Nitrate : (mg/L) - TW	2025/07/07	< MDL 0.05	10	No	No
Nitrate : (mg/L) - TW	2025/10/27	< MDL 0.05	10	No	No
Nitrite : (mg/L) - TW	2025/01/13	< MDL 0.05	1	No	No
Nitrite : (mg/L) - TW	2025/04/22	< MDL 0.05	1	No	No
Nitrite : (mg/L) - TW	2025/07/07	0.15	1	No	No
Nitrite : (mg/L) - TW	2025/10/27	< MDL 0.05	1	No	No
Sodium / Na (mg/L) - TW	2022/01/17	31.5	20*	Yes	Yes

*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.

Schedule 15.1 Sampling:

The Schedule 15.1 Sampling is required under O. Reg. 170/03. This system is under a reduced sampling schedule. No plumbing samples were collected. Lead samples were collected in 2025.

Location Type	Number of Samples	Range of Results		MAC (ug/L)	Number of Exceedances
		Minimum	Maximum		
Lead - Pb: (µg/l)	2	0.02	0.05	10	0
Alkalinity - CaCO ₃ : (mg/L)	2	208	209	N/A	N/A
pH Field:	2	7.37	7.5	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 parameter exceeds half the maximum allowable concentration the parameter is required to be sampled quarterly. Distribution samples are tested quarterly for THM's and HAA's in accordance with O. Reg. 170/03.

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

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
1,1-Dichloroethylene (ug/L)-TW	2024/01/08	< MDL 0.5	14	No	No
1,2-Dichlorobenzene (ug/L)-TW	2024/01/08	< MDL 0.5	200	No	No
1,2-Dichloroethane (ug/L)-TW	2024/01/08	< MDL 0.5	5	No	No
1,4-Dichlorobenzene (ug/L)-TW	2024/01/08	< MDL 0.5	5	No	No
2,3,4,6-Tetrachlorophenol (ug/L)-TW	2024/01/08	< MDL 0.2	100	No	No
2,4,6-Trichlorophenol (ug/L)-TW	2024/01/08	< MDL 0.2	5	No	No
2,4-Dichlorophenol (ug/L)-TW	2024/01/08	< MDL 0.2	900	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L)-TW	2024/01/08	< MDL 1	100	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L)-TW	2024/01/08	< MDL 10	100	No	No
Alachlor (ug/L) -TW	2024/01/08	< MDL 0.3	5	No	No
Atrazine + N-dealkylated metabolites (ug/L)-TW	2024/01/08	< MDL 0.5	5	No	No
Azinphos-methyl (ug/L)-TW	2024/01/08	< MDL 1	20	No	No
Benzene (ug/L)-TW	2024/01/08	< MDL 0.5	1	No	No
Benzo(a)pyrene (ug/L)-TW	2024/01/08	< MDL 0.006	0.01	No	Yes
Bromoxynil (ug/L)-TW	2024/01/08	< MDL 0.5	5	No	No
Carbaryl (ug/L)-TW	2024/01/08	< MDL 3	90	No	No
Carbofuran (ug/L) -TW	2024/01/08	< MDL 1	90	No	No
Carbon Tetrachloride (ug/L) -TW	2024/01/08	< MDL 0.2	2	No	No
Chlorpyrifos (ug/L) -TW	2024/01/08	< MDL 0.5	90	No	No
Diazinon (ug/L)-TW	2024/01/08	< MDL 1	20	No	No
Dicamba (ug/L)-TW	2024/01/08	< MDL 1	120	No	No
Dichloromethane (Methylene Chloride) (ug/L)-TW	2024/01/08	< MDL 5	50	No	No
Diclofop-methyl (ug/L)-TW	2024/01/08	< MDL 0.9	9	No	No
Dimethoate (ug/L)-TW	2024/01/08	< MDL 1	20	No	No
Diquat (ug/L)-TW	2024/01/08	< MDL 5	70	No	No
Diuron (ug/L)-TW	2024/01/08	< MDL 5	150	No	No
Glyphosate (ug/L)-TW	2024/01/08	< MDL 25	280	No	No
Malathion (ug/L)-TW	2024/01/08	< MDL 5	190	No	No
Metolachlor (ug/L)-TW	2024/01/08	< MDL 3	50	No	No
Metribuzin (ug/L)-TW	2024/01/08	< MDL 3	80	No	No
Paraquat (ug/L)-TW	2024/01/08	< MDL 1	10	No	No

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
PCB (ug/L)-TW	2024/01/08	< MDL 0.05	3	No	No
Pentachlorophenol (ug/L)-TW	2024/01/08	< MDL 0.2	60	No	No
Phorate (ug/L)-TW	2024/01/08	< MDL 0.3	2	No	No
Picloram (ug/L)-TW	2024/01/08	< MDL 5	190	No	No
Prometryne (ug/L)-TW	2024/01/08	< MDL 0.1	1	No	No
Simazine (ug/L)-TW	2024/01/08	< MDL 0.5	10	No	No
Terbufos (ug/L)-TW	2024/01/08	< MDL 0.5	1	No	No
Tetrachloroethylene (ug/L)-TW	2024/01/08	< MDL 0.5	10	No	No
Triallate (ug/L) -TW	2024/01/08	< MDL 10	230	No	No
Trichloroethylene (ug/L)-TW	2024/01/08	< MDL 0.5	5	No	No
Trifluralin (ug/L)-TW	2024/01/08	< MDL 0.5	45	No	No
Vinyl Chloride (ug/L)-TW	2024/01/08	< MDL 0.2	1	No	No
Distribution Water					
Haloacetic Acid (HAA): Total (ug/L) RAA*	2025	32.0	80	No	No
Trihalomethane (THM): Total (ug/L) RAA*	2025	79.3	100	No	No

*RAA: Running Annual Average



Additional Legislated Samples

No additional sampling required.

Major Maintenance Summary

Description
<ul style="list-style-type: none"> – New generator at WTP – Acid washing of Well 3R to increase flow capacity – Ongoing work on Well 3R – well not operational in 2025 – Rebuilt hydrants: 17, 28, 49, 30 & 12

Appendix A - WTRS Submission Confirmation



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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: 4000-9YGLJP
Permit Holder: THE CORPORATION OF THE TOWNSHIP OF NORTH STORMONT.
Received on: Feb 24, 2026 8:55 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.

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Water Taking Data submitted successfully.

Confirmation:


Thank you for submitting your water taking data online.

Permit Number: 1807-DMWNVA
Permit Holder: THE CORPORATION OF THE TOWNSHIP OF NORTH STORMONT.
Received on: Feb 24, 2026 8:44 PM

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MOOSE CREEK DRINKING WATER SYSTEM / Raw Well #1

Yearly Summary (Flow) 2025

Annual Values and Summary												
Station:												
	Units: cubic meter per day											
	Daily Max: 394.0 on October 02											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	121.00	65.00	68.00	112.00	104.00	110.00	374.00	116.00	105.00	293.00	70.00	95.00
2	63.00	113.00	78.00	128.00	51.00	143.00	223.00	112.00	153.00	394.00	120.00	85.00
3	113.00	81.00	116.00	156.00	130.00	141.00	93.00	175.00	108.00	114.00	60.00	53.00
4	63.00	59.00	61.00	214.00	107.00	199.00	98.00	160.00	87.00	92.00	61.00	75.00
5	125.00	63.00	63.00	169.00	124.00	51.00	109.00	107.00	85.00	157.00	118.00	92.00
6	62.00	114.00	93.00	199.00	117.00	136.00	115.00	143.00	94.00	91.00	64.00	65.00
7	58.00	61.00	90.00	140.00	84.00	190.00	94.00	142.00	95.00	76.00	63.00	124.00
8	115.00	74.00	66.00	167.00	231.00	177.00	97.00	170.00	90.00	68.00	120.00	67.00
9	55.00	126.00	77.00	194.00	236.00	73.00	93.00	186.00	85.00	72.00	69.00	72.00
10	61.00	59.00	118.00	141.00	135.00	101.00	165.00	180.00	84.00	71.00	61.00	112.00
11	116.00	60.00	63.00	144.00	95.00	163.00	141.00	147.00	166.00	128.00	118.00	55.00
12	91.00	92.00	60.00	209.00	159.00	94.00	137.00	132.00	86.00	71.00	61.00	60.00
13	98.00	91.00	112.00	158.00	77.00	118.00	121.00	141.00	95.00	81.00	59.00	112.00
14	56.00	59.00	70.00	129.00	141.00	177.00	125.00	151.00	98.00	121.00	63.00	72.00
15	115.00	69.00	68.00	132.00	96.00	183.00	174.00	159.00	86.00	71.00	114.00	119.00
16	60.00	116.00	136.00	84.00	78.00	149.00	141.00	142.00	87.00	61.00	68.00	56.00
17	115.00	65.00	124.00	59.00	105.00	181.00	122.00	59.00	147.00	118.00	62.00	62.00
18	69.00	83.00	172.00	114.00	89.00	139.00	129.00	116.00	105.00	64.00	126.00	114.00
19	125.00	101.00	210.00	91.00	136.00	140.00	144.00	86.00	90.00	77.00	61.00	60.00
20	98.00	57.00	131.00	114.00	67.00	146.00	118.00	122.00	87.00	125.00	56.00	72.00
21	83.00	63.00	128.00	96.00	114.00	144.00	170.00	135.00	97.00	61.00	63.00	117.00
22	60.00	118.00	135.00	104.00	69.00	0.00	122.00	93.00	83.00	73.00	118.00	66.00
23	115.00	68.00	153.00	92.00	123.00	208.00	131.00	103.00	81.00	115.00	69.00	116.00
24	62.00	66.00	119.00	70.00	65.00	305.00	132.00	100.00	78.00	63.00	62.00	66.00
25	71.00	122.00	117.00	128.00	144.00	226.00	163.00	79.00	78.00	75.00	117.00	109.00
26	126.00	60.00	126.00	69.00	102.00	60.00	145.00	119.00	83.00	121.00	62.00	67.00
27	66.00	59.00	154.00	111.00	87.00	130.00	133.00	128.00	95.00	59.00	56.00	112.00
28	58.00	118.00	170.00	105.00	121.00	182.00	162.00	45.00	90.00	62.00	62.00	67.00
29	63.00		148.00	70.00	82.00	103.00	202.00	149.00	83.00	118.00	117.00	111.00
30	96.00		165.00	84.00	91.00	186.00	143.00	86.00	90.00	65.00	65.00	58.00
31	78.00		124.00		178.00		110.00	109.00		61.00		75.00

MOOSE CREEK DRINKING WATER SYSTEM / Raw Well #2

Yearly Summary (Flow) 2025

Annual Values and Summary												Units: cubic meter per day
Station:												Daily Max: 253.0 on October 02
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	79.00	42.00	44.00	0.00	66.00	70.00	237.00	74.00	67.00	187.00	46.00	62.00
2	41.00	74.00	51.00	0.00	32.00	90.00	142.00	71.00	97.00	253.00	78.00	55.00
3	74.00	53.00	75.00	0.00	82.00	89.00	59.00	112.00	69.00	74.00	39.00	34.00
4	41.00	38.00	40.00	0.00	67.00	126.00	62.00	102.00	55.00	60.00	39.00	48.00
5	82.00	41.00	40.00	0.00	78.00	33.00	70.00	68.00	55.00	102.00	76.00	60.00
6	41.00	75.00	61.00	0.00	73.00	86.00	73.00	91.00	61.00	59.00	42.00	42.00
7	38.00	40.00	59.00	0.00	53.00	121.00	60.00	91.00	61.00	49.00	41.00	80.00
8	75.00	49.00	43.00	0.00	145.00	112.00	61.00	108.00	58.00	44.00	78.00	43.00
9	36.00	83.00	51.00	0.00	148.00	47.00	59.00	119.00	55.00	47.00	45.00	47.00
10	40.00	39.00	77.00	0.00	84.00	64.00	104.00	115.00	54.00	46.00	40.00	72.00
11	76.00	40.00	41.00	0.00	60.00	103.00	89.00	94.00	106.00	82.00	76.00	36.00
12	60.00	60.00	39.00	0.00	100.00	60.00	87.00	84.00	55.00	46.00	39.00	39.00
13	64.00	60.00	74.00	0.00	48.00	75.00	77.00	90.00	61.00	52.00	38.00	72.00
14	37.00	39.00	46.00	0.00	88.00	112.00	80.00	96.00	63.00	78.00	41.00	46.00
15	75.00	45.00	45.00	0.00	52.00	116.00	110.00	101.00	56.00	46.00	74.00	77.00
16	39.00	76.00	89.00	58.00	49.00	94.00	90.00	91.00	56.00	39.00	44.00	36.00
17	76.00	43.00	0.00	37.00	66.00	114.00	78.00	38.00	94.00	76.00	40.00	40.00
18	45.00	54.00	0.00	72.00	56.00	79.00	82.00	74.00	68.00	42.00	82.00	74.00
19	82.00	66.00	0.00	58.00	86.00	93.00	91.00	55.00	58.00	50.00	40.00	39.00
20	65.00	38.00	0.00	72.00	42.00	97.00	75.00	77.00	56.00	81.00	36.00	47.00
21	55.00	41.00	0.00	61.00	72.00	96.00	108.00	86.00	62.00	40.00	41.00	76.00
22	39.00	77.00	0.00	66.00	44.00	0.00	78.00	59.00	53.00	47.00	76.00	43.00
23	76.00	45.00	0.00	58.00	77.00	131.00	83.00	66.00	52.00	74.00	45.00	75.00
24	41.00	43.00	0.00	44.00	41.00	193.00	84.00	64.00	50.00	41.00	40.00	43.00
25	47.00	80.00	0.00	80.00	91.00	143.00	104.00	51.00	50.00	48.00	75.00	71.00
26	83.00	39.00	0.00	43.00	65.00	38.00	92.00	76.00	53.00	78.00	40.00	43.00
27	43.00	39.00	0.00	69.00	56.00	83.00	85.00	81.00	61.00	38.00	36.00	72.00
28	38.00	77.00	0.00	66.00	77.00	116.00	103.00	29.00	58.00	40.00	40.00	43.00
29	42.00		0.00	44.00	52.00	65.00	129.00	96.00	53.00	76.00	76.00	72.00
30	63.00		0.00	53.00	58.00	118.00	91.00	55.00	58.00	42.00	42.00	37.00
31	52.00		0.00		112.00		70.00	70.00		39.00		48.00

