

The Township of North Glengarry

Glen Robertson Well Supply System

2022 Annual and Summary Report

In compliance with O. Reg 170/03, section 11, and O. Reg 170/03 schedule 22

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Section 1: Introduction

This report is an annual summary of water quantity, quality system information, system operations and major expenditures for the Glen Robertson Well Supply during the reporting period of January 1, 2022 to December 31, 2022. It was prepared in accordance with section 11 and schedule 22 of the of Ontario's Drinking Water Systems Regulation O. Regulation 170/03.

Section 2: System Description

The Glen Robertson Well Supply System is located on Irwin St within the hamlet of Glen Robertson, which is approximately 11 kms northeast of the Town of Alexandria. This system uses groundwater as its source to supply the residents with treated water and has a rated capacity of 224 m³/day. It is categorized as a small municipal residential drinking water system. In 2010 the source was deemed to be groundwater under the direct influence of surface water (GUDI), and upgrades were implemented to strengthen the treatment processes.

Section 3: Process and Equipment Description

Supply Well

One 300 mm diameter drilled well located on 3342 Irwin St., *UTM Easting: 538506 UTM Northing: 5022689 (NAD 83, accuracy +/- 10m)*. It is equipped with a submersible well pump rated at 5.1L/sec (67 IGPM), attached to a 50mm diameter discharge pipe.

Pumping Station

All equipment is stored within a single-story brick building, approximately 17.4m², (4.7m x 3.7m), located at the Irwin St address.

Treatment Equipment

The raw water is pumped from the well into 50 mm piping. The water is directed towards 3 ultraviolet light systems (UV), 2 in service 1 in stand-by mode. The water passed through a 5-micron filter followed by a 1-micron filter prior to going through the UV system. The water is then directed past the sodium hypochlorite injection point.

The chlorination system utilizes two diaphragm sodium hypochlorite metering pumps, which discharges into the well discharge piping. The pumps have automatic switchover capabilities and will switch over if a problem develops with the lead pump during operation. There is 1 sodium hypochlorite storage tank, with 30L capacity that feeds both pumps and is contained within a secondary containment vessel.

Located outside the building but on the property, is an underground chlorine contact chamber consisting of 52m of 300mm piping. It is complete with a flushing port and a treated water sample line which feeds the on-line analyzers located in the water treatment plant.

Monitoring Equipment

There are two free chlorine analyzers are used for regulatory monitoring, one measures the residual at the end of the contact chamber as the treated water enters the distribution system and one analyzer is in place in the distribution. An additional unit measures free chlorine directly after sodium hypochlorite injection point to ensure dosing is always maintained.

There is only one regulatory flow meter is installed directly after the sodium hypochlorite injection on the piping leading to the contact chamber. This unit will record all flows leaving the treatment process and entering the distribution. There is no raw flow meter in this system due to limited access and minimal water taking prior to treatment.

The treated water turbidity is monitored by one on-line analyzer, which draws from the treated water as it leaves the contact chamber and enters the distribution system.

All treatment equipment and monitoring analyzers are connected into the SCADA system, which was put into service in September 2022. The SCADA allows for real time monitoring, alarm setpoint enabling and historical trending, however it does not have the ability to control or adjust the process or equipment. Prior to September 2022 all monitoring equipment was connected to 7-day chart recorders, and a plc with real time and 7-day data retention capabilities. The system is also fully alarmed with multiple alarm set points, so that if any parameter is exceeded an alarm will be triggered on the SCADA desktop and through the auto dialer system. The on-call operator is then notified by the monitoring centre, which operates 24 hours a day, 365 days a year.

System Pressure Equipment

The well pump will start, run, or stop based on the system pressure, which can be observed on a gauge in the water plant prior to sodium hypochlorite injection. The start and stop point are set in the SCADA system and can be adjusted within the threshold if required. There are also five 400 L pneumatic pressure tanks operating between 275 to 400 kPa to maintain the system pressure.

Emergency Power

A 17-kW natural gas generator, equipped with auto start, is used to provide power to the water treatment building in the event of an outage. It is located outside the building on the southwest wall.

Additional Equipment.

All piping, valves, controls, and appurtenances along with associated mechanical and electrical equipment not mentioned in the description but are utilized to make up the system.

Monitoring Wells

Two drilled monitoring wells are located on the property where the treatment plant is located. One being located northeast of the building, and one located southwest of the building. These wells were utilized in the past for groundwater level monitoring, but no monitoring is being currently conducted. In December 2022 the well covers were replaced to ensure well integrity is maintained, in accord with the most recent compliance inspection.

Section 4: Flow Summary

In order to assess the rated capacity of the WTP in terms of meeting existing and planned uses of the system, a summary of the treated flow rates during this period covered by this report was prepared and is presented below. In accordance with License #181-102 the Glen Robertson Well Supply shall not be operated to exceed the rated of the treatment system. Both the Permit to Take Water (PTTW) and the License requirements allow for a maximum of 224 m³ total daily for raw and treated water.

The average treated daily flow for 2022 is calculated to be 27.3m³ and the maximum daily flow for the year was reported to be 47.3m³. This represents 12.1% of the total plant rated capacity. Refer to the appendices for full 2022 data summary.

<u>2022 Treated Flow Summary</u>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Maximum Daily Flow (m ³)	26.3	27.4	26.2	30.0	46.5	39.6	47.3	38.2	44.0	30.3	36.4	39.4
Monthly Average Flow (m ³)	23.1	23.3	23.7	23.7	30.0	32.3	33.0	32.2	31.3	24.7	24.3	25.6
Monthly Average Daily Maximum Instantaneous Flow (L/s)	1.15	1.10	1.20	1.30	1.10	1.20	1.86	1.76	1.86	1.99	1.64	1.98
Rated Maximum Daily Treated Flow for the approved system										224 m ³ /day		
Rated Maximum Instantaneous Treated Flow										2.6 L/s		

Section 5: Sampling and Laboratory Analysis Summary

The Township of North Glengarry uses Caduceon Laboratories as the primary provider for all sample analysis. Caduceon Laboratories is an accredited laboratory under the Ministry of the Environment and Climate Control requirements. Refer to table below for all results as required.

2022 Microbiological Testing Completed as per Schedule 10, 11 and/or 12 of O. Reg 170/03					
Location	Number of Samples	Range of E. Coli or Fecal Results (#-#)	Range of Total Coliform Results (#-#)	Number of HPC Samples	Range of HPC Results (#-#)
Raw	52	0 - 1	0 - 10	0	
Treated	53	0 - 0	0 - 0	52	< 2 - 4
Distribution	107	0 - 0	0 - 0	104	<2 - 6

2022 Operational Testing as per Schedule 7, 8 and or 9 of O. Reg 170/03		
Parameter	Number of Grab Samples	Range of Results unit of measure is mg/L unless otherwise indicated (#-#)
Raw Turbidity	244	0.10ntu - 2.28ntu
Treated Free Chlorine	Continuous	0.44 - 2.20
Distribution Free Chlorine	Continuous	0.49 - 2.38
Fluoride (If the DWS provides fluoridation)		n/a

Additional Sampling or Testing in Accordance with System Approval Requirement or Order				
Date of Order or Approval Amendment	Parameter	Date Sampled	Result	Unit of Measure
n/a				

2022 Summary of Inorganic Parameters Tested (1ug/L = 0.001mg/L; RAA=Rolling Annual Average)					
Parameter	Sample Date	Standard (maximum concentration)	Result Value	Unit of Measure	Exceedance
Antimony	November 1, 2021	0.006 mg/L	< 0.0001	mg/L	No
Arsenic	November 1, 2021	0.01 mg/L	0.0002	mg/L	No
Barium	November 1, 2021	1.0 mg/L	0.176	mg/L	No
Boron	November 1, 2021	5.0 mg/L	0.033	mg/L	No
Cadmium	November 1, 2021	0.005 mg/L	< 0.000015	mg/L	No
Chromium	November 1, 2021	0.05 mg/L	< 0.002	mg/L	No
Lead	September 8, 2021	0.01mg/L	0.00161	mg/L	No
Mercury	November 1, 2021	0.001mg/L	< 0.00002	mg/L	No
Selenium	November 1, 2021	0.05 mg/L	< 0.001	mg/L	No
Sodium	September 12, 2022	20 mg/L	104	mg/L	No
Uranium	November 1, 2021	0.02 mg/L	0.00042	mg/L	No
Fluoride	September 12, 2022	1.5 mg/L	< 0.1	mg/L	No
Nitrite	January 16, 2023	1.0 mg/L	< 0.1	mg/L	No
Nitrate	January 16, 2023	10.0 mg/L	6	mg/L	No

2022 Summary of Lead Testing							
(1ppm = 1mg/L)							
Location/ Type	Number of Samples	Range of Lead Results (#-#)	Unit of Measure	Range of Alkalinity Results (#-#)	Unit of Measure	Average pH	Exceedance
Residential Plumbing	0						
Non-Residential Plumbing	0						
Distribution	2			338 - 338	mg/L	7.2	No

2022 Summary of Organic Parameters Tested					
(1ug/L = 0.001mg/L; RAA=Rolling Annual Average)					
Parameter	Sample Date	Standard (maximum concentration)	Result Value	Unit of Measure	Exceedance
Alachlor	November 1, 2021	0.005 mg/L	< 0.3	ug/L	No
Atrazine + N-dealkylated metabolites	November 1, 2021	0.005 mg/L	< 0.5	ug/L	No
Azinphos-methyl	November 1, 2021	0.02 mg/L	< 1	ug/L	No
Benzene	November 1, 2021	0.001 mg/L	< 0.5	ug/L	No
Benzo(a)pyrene	November 1, 2021	0.00001 mg/L	< 0.006	ug/L	No
Bromoxynil	November 1, 2021	0.005 mg/L	< 0.5	ug/L	No
Carbaryl	November 1, 2021	0.09 mg/L	< 3	ug/L	No
Carbofuran	November 1, 2021	0.09 mg/L	< 1	ug/L	No
Carbon Tetrachloride	November 1, 2021	0.002 mg/L	< 0.2	ug/L	No
Chlorpyrifos	November 1, 2021	0.09 mg/L	< 0.5	ug/L	No
Diazinon	November 1, 2021	0.02 mg/L	< 1	ug/L	No
Dicamba	November 1, 2021	0.12 mg/L	< 10	ug/L	No
1,2-Dichlorobenzene	November 1, 2021	0.2 mg/L	< 0.5	ug/L	No
1,4-Dichlorobenzene	November 1, 2021	0.005 mg/L	< 0.5	ug/L	No
1,2-Dichloroethane	November 1, 2021	0.005 mg/L	< 0.5	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	November 1, 2021	0.014 mg/L	< 0.5	ug/L	No
Dichloromethane	November 1, 2021	0.05 mg/L	< 5	ug/L	No
2-4 Dichlorophenol	November 1, 2021	0.9 mg/L	< 0.2	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	November 1, 2021	0.1 mg/L	< 10	ug/L	No
Diclofop-methyl	November 1, 2021	0.009 mg/L	< 0.9	ug/L	No
Dimethoate	November 1, 2021	0.02 mg/L	< 1	ug/L	No
Diquat	November 1, 2021	0.07 mg/L	< 5	ug/L	No
Diuron	November 1, 2021	0.15 mg/L	< 5	ug/L	No
Glyphosate	November 1, 2021	0.28 mg/L	< 25	ug/L	No
Haloacetic Acid (RAA)	January 16, 2023	0.08mg/L	< 5.3	ug/L	No
Malathion	November 1, 2021	0.19 mg/L	< 5	ug/L	No
2 Methyl-4 Chlorophenoxyacetic (MCPA)	November 1, 2021	0.1 mg/L	< 10	ug/L	No
Metolachlor	November 1, 2021	0.05 mg/L	< 3	ug/L	No

2022 Summary of Organic Parameters Tested (1ug/L = 0.001mg/L; RAA=Rolling Annual Average)					
Parameter	Sample Date	Standard (maximum concentration)	Result Value	Unit of Measure	Exceedance
Metribuzin	November 1, 2021	0.08 mg/L	< 3	ug/L	No
Monochlorobenzene	November 1, 2021	0.08 mg/L	< 0.5	ug/L	No
Paraquat	November 1, 2021	0.01 mg/L	< 1	ug/L	No
Pentachlorophenol	November 1, 2021	0.06mg/L	< 0.2	ug/L	No
Phorate	November 1, 2021	0.002 mg/L	< 0.3	ug/L	No
Picloram	November 1, 2021	0.19 mg/L	< 15	ug/L	No
Polychlorinated Biphenyls (PCB)	November 1, 2021	0.003 mg/L	< 0.05	ug/L	No
Prometryne	November 1, 2021	0.001 mg/L	< 0.1	ug/L	No
Simazine	November 1, 2021	0.01 mg/L	< 0.5	ug/L	No
THM (RAA)	January 16, 2023	0.100 mg/L	17.8	ug/L	No
Terbufos	November 1, 2021	0.001 mg/L	< 0.5	ug/L	No
Tetrachloroethylene	November 1, 2021	0.01 mg/L	< 0.5	ug/L	No
2,3,4,6-Tetrachlorophenol	November 1, 2021	0.1 mg/L	< 0.2	ug/L	No
Triallate	November 1, 2021	0.23 mg/L	< 10	ug/L	No
Trichloroethylene	November 1, 2021	0.005 mg/L	< 0.5	ug/L	No
2,4,6-Trichlorophenol	November 1, 2021	0.005 mg/L	< 0.2	ug/L	No
Trifluralin	November 1, 2021	0.045 mg/L	< 0.5	ug/L	No
Vinyl Chloride	November 1, 2021	0.001 mg/L	< 0.2	ug/L	No

Inorganic or Organic Parameters that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards			
Parameter	Result Value	Unit of Measure	Date of Sample
n/a			

Section 6: Significant Expenses Incurred

There were two capital works projects and one major equipment failure during the 2022 budgetary period. All significant expenses were regarding to maintenance or equipment replacement, as described below.

- Install required equipment.
- Repair required equipment.
- Replace required equipment.
- None during this period

Briefly Describe Incident and/or Expenses Incurred:

No.	Project Name	Description	Cost
1	SCADA System Installation	<ul style="list-style-type: none"> • installation of SCADA system for monitoring and historical trending of required elements 	\$82,686.45
2	Well Pump Replacement	<ul style="list-style-type: none"> • pump failure caused need for replacement 	\$4,200
3	UV Installation	<ul style="list-style-type: none"> • upgrade units to ensure compatibility with SCADA system 	\$12,000

Section 7: Compliance with Licenses, Permits, Approvals and Orders

The system is an approved system through the accreditation process that was rolled out by the Ministry of the Environment and Climate Control, now known as Ministry of the Environment, Conservation and Parks. The operating authority strives to remain compliant with the Drinking Water Quality Management Standard, the Safe Drinking Water Act and all associated procedures or a guideline. This approach is utilized for creating a multi-barrier approach to ensure safe drinking water.

The following table is a listing of all permits and or licenses that apply to this system:

<i>Description</i>	<i>Number</i>	<i>Version</i>	<i>Issue Date</i>	<i>Expiry Date</i>
Water Works License	181-102	2	March 16, 2021	March 16, 2026
Water Works Permit	181-202	2	March 16, 2021	March 16, 2026
Permit to Take Water	3330-9UNQ2Q		March 20, 2015	March 16, 2025

The Township has been actively engaged in the process of internal and external auditing, as per the Drinking Water Management Standard. All outstanding issues from previous years have been brought back into conformance.

During this period, all raw water flows were compliant with the permit to take water and all flows were well within the rated capacity for the system, currently at 12.1% of the allowable limits.

All disinfection equipment was operated in such a manner that all license requirements were met at all times. The treatment system was operated at all times to ensure compliance with the Procedure for Disinfection of Drinking Water in Ontario.

All equipment was maintained as per operations manuals and/or calibrated annually by a certified technician.

Section 8: Non-Compliance with Licenses, Permits, Approvals and Orders

There was one instance of non-compliance in regard to sampling limit exceedance and one report for system wide pressure loss.

During the inspection period, there were no non-compliance and non-conformance issues identified and all license, permit and or approval requirements were met during this reporting period. Furthermore, there were no orders or additional requirements issued to the system at the completion of the inspection period.

The quarterly reporting requirement from previous inspection was completed in October 2022, and all reports were submitted as per request and no further action was required after the last report was submitted.

2022 Reported Incident in accordance to subsection 18(1) of the Safe Drinking Water Act or Schedule 16 of O. Reg 170/03					
<i>Incident Date</i>	<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Corrective Action</i>	<i>Corrective Action Date</i>
April 5, 2022	System Wide Pressure Loss	0	psi	<ul style="list-style-type: none"> remove and replace defective well pump system wide flushing and sampling 	April 7, 2022
September 9, 2022	Sodium Exceedence	104	mg/L	<ul style="list-style-type: none"> resample and user notification 	October 10, 2022

Section 9: Township of North Glengarry Endorsement of Summary Report

A copy of the report was presented to all members of the municipal Council through the Public Works Committee meeting held on March 22, 2022, see appendix D for motion. The report was also made available to the public through the Township of North Glengarry website or upon request at the Main office, located at 3720 County Rd in Alexandria.

This report has been endorsed by Tim Wright, Director of Public Works on behalf of Township of North Glengarry Council.

Section 10: Contact

All efforts have been made to provide accurate and up to date information in a relevant format. In the event that additional information is required please submit all verbal requests by phone at 613-525-3087; in writing by mail to 3720 County Rd in Alexandria, Alexandria Ontario, K0C 1A0; or in writing by email to enviro@northglengarry.ca

Appendix A: Glen Robertson 2022 Daily Treated Flows (m³)

	January	February	March	April	May	June	July	August	September	October	November	December
1	23.4	22.5	21.3	24.5	27.0	25.7	30.7	33.7	30.4	27.9	29.0	28.2
2	23.4	21.7	24.9	24.5	26.7	31.3	39.7	31.3	32.1	27.9	30.2	24.8
3	21.4	25.4	24.9	24.5	26.2	37.2	39.7	26.3	37.2	22.6	22.6	24.8
4	21.4	23.6	25.7	23.8	18.5	37.2	35.3	29.2	37.2	30.3	20.8	24.8
5	22.2	23.6	25.7	13.0	25.6	37.2	47.3	33.7	37.2	22.4	26.5	28.7
6	21.2	23.6	25.7	21.8	28.3	37.0	31.7	33.7	44.0	28.5	24.6	25.0
7	26.3	22.6	25.7	24.1	28.3	28.6	33.0	33.7	24.1	24.8	28.0	24.9
8	26.3	26.9	21.1	24.1	28.3	28.6	33.0	29.1	33.6	28.2	20.9	22.7
9	26.3	17.5	25.5	24.1	27.9	29.4	36.7	29.9	36.0	24.7	21.1	22.5
10	21.1	21.4	18.9	24.1	35.7	30.8	36.7	23.8	36.0	26.5	20.4	24.1
11	23.4	27.2	22.1	22.7	26.5	30.8	34.7	38.2	36.0	20.4	26.1	26.2
12	24.7	27.2	22.1	30.0	27.2	30.8	30.6	34.8	30.4	21.0	26.1	24.3
13	19.9	27.2	22.1	17.4	33.8	35.9	29.0	34.8	32.1	19.7	26.1	26.0
14	25.3	22.1	25.2	28.4	33.8	39.6	36.2	34.8	29.4	21.2	22.9	23.1
15	25.3	27.4	22.2	28.4	33.8	39.5	35.4	31.4	27.5	21.7	21.9	23.5
16	25.3	18.9	22.2	22.3	26.4	35.4	35.4	33.4	20.1	27.7	24.7	22.0
17	21.9	21.7	19.1	22.3	27.4	37.1	35.4	27.8	24.8	28.9	23.5	25.2
18	21.2	26.6	25.2	22.3	22.9	37.1	27.2	29.3	24.6	24.2	21.3	23.5
19	21.2	22.6	25.2	26.8	29.0	37.1	33.1	37.8	25.4	24.2	24.3	22.6
20	22.1	22.6	25.2	17.1	22.7	26.7	29.4	37.8	20.3	21.3	22.9	21.9
21	24.6	22.6	22.4	23.0	37.9	35.7	27.5	37.8	21.2	26.6	24.3	20.7
22	24.6	23.6	26.2	24.3	37.9	22.0	30.3	28.3	21.3	26.6	23.7	21.0
23	24.6	20.4	26.2	24.3	37.9	24.7	30.3	33.5	36.0	26.6	36.4	20.8
24	20.6	21.8	24.9	24.3	46.5	31.3	30.3	33.5	36.0	24.9	26.9	27.6
25	21.0	23.6	25.1	24.7	26.5	31.3	28.7	28.8	36.0	25.2	22.4	23.6
26	22.4	23.6	25.1	25.7	24.9	31.3	36.1	33.6	32.8	25.2	22.0	26.2
27	19.4	23.6	25.1	19.2	34.9	28.2	26.2	33.6	28.7	23.0	22.5	30.2
28	24.3	21.3	24.7	24.7	34.9	34.0	26.9	33.6	40.0	20.4	23.4	32.9
29	24.3		25.0	27.0	34.9	26.7	29.1	30.4	40.0	24.1	22.0	39.4
30	24.3		20.9	27.0	26.9	30.7	33.7	37.5	27.9	28.6	22.1	30.6
31	21.8		19.6		30.5		33.7	22.4		21.6		31.5
Minimum	19.4	17.5	18.9	13.0	18.5	22.0	26.2	22.4	20.1	19.7	20.4	20.7
Maximum	26.3	27.4	26.2	30.0	46.5	39.6	47.3	38.2	44.0	30.3	36.4	39.4
Average	23.1	23.3	23.7	23.7	30.0	32.3	33.0	32.2	31.3	24.7	24.3	25.6
Total	715.1	652.9	735.0	710.5	929.5	968.9	1022.9	997.8	938.3	766.9	729.4	793.4

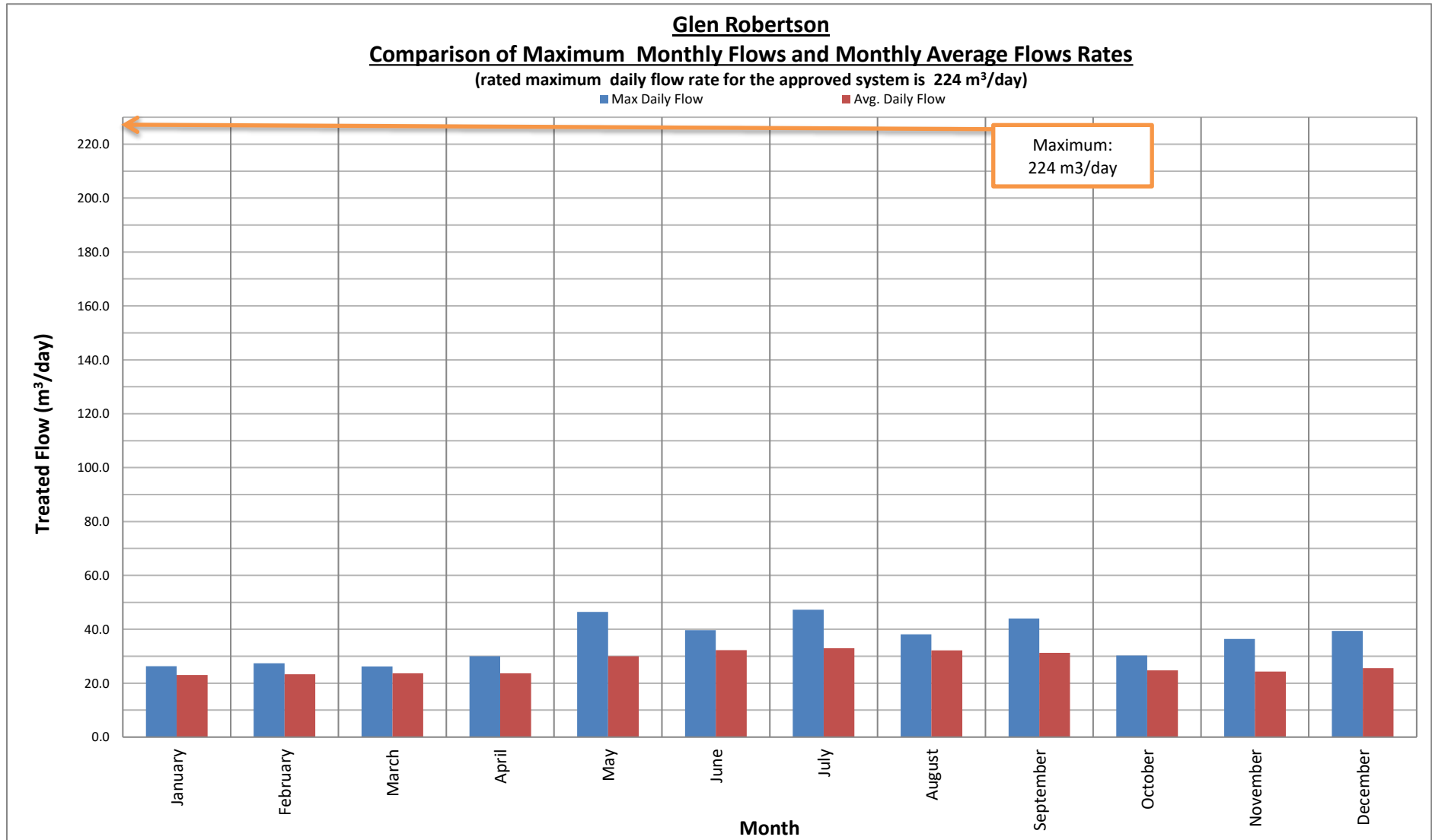
Annual Treated Flows Summary
13.0
47.3
27.3
9,961

Appendix B: Glen Robertson 2022 Treated Maximum Instantaneous Flows (L/s)

	January	February	March	April	May	June	July	August	September	October	November	December
1	1.09	0.84	0.89	0.88	1.00	0.85	0.76	1.58	1.30	1.54	1.40	1.78
2	1.15	0.84	0.90	0.89	1.02	0.82	0.73	1.44	1.28	1.44	1.49	1.51
3	0.98	0.94	0.86	0.89	0.96	0.93	0.88	1.30	1.27	1.38	1.20	1.57
4	1.08	0.88	0.96	0.78	0.87	1.04	0.82	1.45	1.44	1.40	1.24	1.62
5	0.96	0.96	0.91	1.30	0.84	1.20	1.56	1.34	1.44	1.99	1.59	1.39
6	0.94	1.10	1.20	0.90	0.92	1.17	1.86	1.48	1.60	1.62	1.42	1.30
7	0.92	0.86	0.84	0.94	0.98	0.80	1.61	1.30	1.50	1.23	1.56	1.35
8	1.13	0.86	0.84	0.70	0.94	0.86	1.68	1.13	1.62	1.39	1.33	1.36
9	0.90	0.88	0.96	1.12	0.90	0.80	1.44	1.24	1.36	1.37	1.36	1.36
10	0.86	0.84	0.88	0.92	0.76	0.78	1.75	1.22	1.86	1.76	1.30	1.41
11	0.96	0.86	0.97	0.76	1.10	0.72	1.72	1.30	1.50	1.21	1.39	1.50
12	0.90	0.94	0.86	0.98	0.92	0.94	1.28	1.22	1.20	1.44	1.60	1.34
13	0.88	0.90	1.01	0.90	0.98	0.96	1.58	1.28	1.59	1.41	1.52	1.41
14	0.82	0.80	0.97	1.01	1.00	0.90	1.45	1.76	1.36	1.30	1.29	1.26
15	0.95	1.00	0.94	0.94	1.04	0.84	1.52	1.60	1.26	1.28	1.38	1.19
16	1.00	0.92	0.86	1.16	0.82	0.90	1.50	1.36	1.29	1.60	1.50	1.15
17	0.84	0.90	0.78	0.94	0.90	0.86	1.64	1.30	1.43	1.61	1.28	1.25
18	0.91	0.98	1.06	0.88	0.98	0.88	1.26	1.36	1.37	1.47	1.50	1.54
19	0.95	0.88	1.00	1.04	0.79	0.90	1.58	1.32	1.36	1.43	1.50	1.37
20	0.96	0.94	0.90	0.82	0.88	0.76	1.63	1.44	1.16	1.25	1.31	1.62
21	0.90	1.00	0.98	0.80	0.94	0.87	1.66	1.62	1.67	1.18	1.64	1.32
22	1.03	0.86	0.78	0.80	1.06	0.78	1.12	1.14	1.57	1.55	1.20	1.26
23	0.93	0.80	0.88	0.98	0.92	0.72	1.64	1.54	1.53	1.44	1.55	1.34
24	0.89	0.96	1.10	1.11	0.94	0.72	1.64	1.58	1.63	1.56	1.25	1.60
25	0.80	0.80	1.00	0.82	0.98	0.88	1.38	1.28	1.63	1.44	1.51	1.73
26	0.84	1.02	1.03	0.85	0.80	0.80	1.38	1.20	1.34	1.51	1.40	1.98
27	0.98	0.90	0.98	0.92	0.92	0.70	1.46	1.18	1.41	1.62	1.48	1.55
28	0.84	0.92	0.97	0.86	0.90	0.86	1.24	1.40	1.62	1.23	1.56	1.31
29	0.90		0.84	0.82	1.00	0.72	1.69	1.22	1.62	1.31	1.29	1.32
30	1.02		0.92	1.00	0.86	0.80	1.48	1.32	1.76	1.54	1.44	1.76
31	0.91		1.00		0.86		1.52	1.36		1.68		1.40
Maximum	1.15	1.10	1.20	1.30	1.10	1.20	1.86	1.76	1.86	1.99	1.64	1.98
Average	0.94	0.91	0.94	0.92	0.93	0.86	1.43	1.36	1.47	1.46	1.42	1.45

Annual Treated Flows Summary
1.99
1.17

Appendix C: 2022 Comparative Monthly Treated Flows Rates



Appendix D: Committee of the Whole Agenda

THE CORPORATION OF THE TOWNSHIP OF NORTH GLENGARRY Committee of the Whole

Wednesday, March 22, 2023, 3:00 pm

Council Chamber
3720 County Road 34
Alexandria, On. K0C 1A0

1. CALL TO ORDER
2. DECLARATION OF PECUNIARY INTEREST
3. ACCEPT THE AGENDA(Additions/Deletions)
4. DELEGATIONS
5. STAFF REPORTS
 - a. Administration Department
 1. Draft Strategic Plan and Priorities 2023-2026
 - b. Treasury Department
 1. Variance Report March 2023
 - c. Building/Planning & By-law Department
 1. Update on Clear Cutting By-law No. 43-2021
 2. Update on Shipping Container By-law Amendment
 3. Administrative Monetary Penalties
 - d. Public Work's Department
 1. Annual Drinking Water System Summary Reports for Alexandria/Maxville and Glen Robertson
 2. Annual Waste Water Systems Reports for Alexandria and Maxville
 3. Blue Box Transition and Regional Waste Management Group Update
 - e. Fire Department

1. Training Facility - Rental

6. CONSENT AGENDA

- a. TR 2023-09 Workplan Update March 2023
- b. CS 2023-06 Community Services Workplan Q1 2023
- c. PW 2023-14 Public Works Work Plan
- d. FD 2023-02 Departmental Workplan Update – March 2023

7. UNFINISHED BUSINESS

8. OTHER BUSINESS

9. MATTERS ARISING FROM STANDING COMMITTEES

- a. Raisin Region Conservation Authority update by Councillor Jacques Massie
- b. Maxville Manor update by Councillor Gary Martin
- c. Glengarry Pioneer Museum update by Councillor Gary Martin
- d. Glengarry Archives update by Mayor Jamie MacDonald
- e. Arts, Culture & Heritage update by Councillor Jeff Manley
- f. County Council update by Deputy Mayor Carma Williams
- g. Friends of the Trails update by Councillor Jeff Manley
- h. Community Development Committee by update by Deputy Mayor Carma Williams
- i. Rural Affairs update by Councillor Brian Caddell

10. NOTICE OF MOTION

Next Committee of the Whole Meeting

Wednesday June 21 2023 at 3:00 p.m. at the Council Chambers Ontario.

Note: Meeting are subject to change or cancellation.

11. ADJOURNMENT



STAFF REPORT TO THE COMMITTEE OF THE WHOLE Report No: PW 2023-12

March 15, 2023

From: Angela Cullen – Water Wastewater Compliance Coordinator

RE: Annual Drinking Water System Summary Reports for Alexandria/Maxville and Glen Robertson

Recommended Motion:

THAT the Committee of the Whole receives Staff Report No. PW 2023-12 for information purposes.

Background / Analysis:

Staff have prepared the annual reports for the Alexandria Drinking Water System and the Glen Robertson Drinking System, as per the requirements under Ontario Regulation 170/03 for each system.

The attached annual reports will be sent to the Ministry of the Environment and posted to the North Glengarry Township's website for public access, as part of the Township's obligation.

Financial Implications:

N/A

Others Consulted:

Dean McDonald, Environmental Services Manager
Tim Wright, Director of Public Works

Attachments:

- Alexandria Drinking Water System 2022 Annual and Summary Report
- Glen Robertson Drinking Water System 2022 Annual and Summary Report
- Annual Drinking Water Systems Annual Report to Council

Reviewed and approved by: Sarah Huskinson, CAO/Clerk