

The Township of North Glengarry

Glen Robertson Well Supply System

2023 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, 2023, to December 31, 2023. 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, through the Ministry of Environment, Conservation and Parks. 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 3342 Irwin St. The property is enclosed by a chain link fence and the building is monitored by an automated alarm system for security purposes.

Treatment Equipment

The raw water is pumped from the well via a 50 mm pipe and passes through 2 filters, a 5-micron particulate filter followed by a 1-micron particulate filter, prior to entering the ultraviolet light (UV) disinfection system. The filtered water passes through UV units for primary disinfection, with 2 units in service 1 unit in stand-by mode at all times. The systems are equipped with auto-shut down, but manual switch over is required to transfer over operations between units.

The water is then dosed with sodium hypochlorite to ensure primary and secondary disinfection are achieved. The chlorination system utilizes two diaphragm sodium hypochlorite metering pumps, which discharges through the injection point into the 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 within the property boundaries, is an underground chlorine contact chamber consisting of 52m of 300mm piping. It contains a flushing port and a treated water sample line which feeds the on-line analyzers located in the water treatment plant.

Monitoring Equipment

Three free chlorine analyzers are used for regulatory monitoring, one measures chlorine residuals directly after sodium hypochlorite injection point, 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.

One 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.

One on-line turbidity analyzer measures the treated water as it leaves the contact chamber and enters the distribution system.

All the instrumentation and equipment described above is tied into the SCADA system which ensures system monitoring, process control and historical trending, however while remote monitoring is possible, there is limited remote control capabilities. The alarm setpoints are enabled through the SCADA system and transferred to an automated alarm/dialler system to alert the on-call operational staff member to any limit exceedances.

System Pressure Equipment

The well pump will start, run, or stop based on pressure limits set within the SCADA system, the system utilizes an automated gauge in the water plant prior to sodium hypochlorite injection to monitor the system pressure. Five 400 L pneumatic pressure tanks are in service to ensure the distribution pressure is maintained between 275 to 400 kPa and alarms are enabled, as previously described.

The pre-existing manual pressure switch now acts as a system back-up and is set to operate if the SCADA system malfunctions.

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 a utility power outage. The generator is located outside the building on the west facing wall, with the transfer switch located within the water treatment building on the east 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.

Section 4: Flow Summary

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.

In order to assess the rated capacity of the drinking waters system, in terms of meeting existing demands and planned future developments, a summary of the treated flow rates during this period covered by this report was prepared and is presented in the chart below. The 2023 average daily treated flow was calculated to be 24.6m³ and the observed maximum daily flow was reported to be 69.1m³. This represents 10.9% of the total plant rated capacity, please refer to the appendices for full 2023 annual data summary.

<u>2023 Treated Flow Summary</u>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Maximum Daily Flow (m ³)	29.5	69.1	30.5	27.8	39.8	44.1	47.5	33.4	29.6	29.3	29.3	27.1
Monthly Average Flow (m ³)	24.0	27.2	23.1	23.8	28.1	28.0	26.3	24.0	22.4	22.8	22.4	22.9

<u>2023 Treated Flow Summary</u>	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Monthly Average Daily Maximum Instantaneous Flow (L/s)	1.67	2.06	1.71	1.71	1.92	2.10	1.72	1.98	1.88	1.65	2.00	1.89
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, Conservation and Parks requirements. Refer to table below for all results as required.

2023 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 - 0	0 - 0	0	
Treated	52	0 - 0	0 - 0	52	< 2 - 3
Distribution	104	0 - 0	0 - 0	104	< 2 - 500

2023 Operational Testing as per Schedule 7, 8 and or 9 of O. Reg 170/03		
Parameter	Number of Samples	Range of Results <i>unit of measure is mg/L unless otherwise indicated (#-#)</i>
Raw Turbidity	256	0.10 - 1.40
Treated Free Chlorine	Continuous	0.80 – 2.17
Distribution Free Chlorine	Continuous	0.64 - 3.26
Fluoride <i>(If the DWS provides fluoridation)</i>	n/a	

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

2023 Summary of Inorganic Parameters Tested <i>(1ug/L = 0.001mg/L; RAA=Rolling Annual Average)</i>					
Parameter	Sample Date	Standard <i>(maximum concentration)</i>	Result Value	Unit of Measure	Exceedance
Antimony	01-Nov-2021	0.006 mg/L	< 0.0001	mg/L	No
Arsenic	01-Nov-2021	0.01 mg/L	0.0002	mg/L	No
Barium	01-Nov-2021	1.0 mg/L	0.176	mg/L	No
Boron	01-Nov-2021	5.0 mg/L	0.033	mg/L	No
Cadmium	01-Nov-2021	0.005 mg/L	< 0.000015	mg/L	No
Chromium	01-Nov-2021	0.05 mg/L	< 0.002	mg/L	No
Lead	11-Sep-2023	0.01mg/L	0.00422	mg/L	No
Mercury	01-Nov-2021	0.001mg/L	< 0.00002	mg/L	No
Selenium	01-Nov-2021	0.05 mg/L	< 0.001	mg/L	No
Sodium	12-Sep-2022	20 mg/L	104	mg/L	Yes

2023 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
Uranium	01-Nov-2021	0.02 mg/L	0.00042	mg/L	No
Fluoride	12-Sep-2022	1.5 mg/L	< 0.1	mg/L	No
Nitrite	15-Jan-2024	1.0 mg/L	< 0.05	mg/L	No
Nitrate	15-Jan-2024	10.0 mg/L	0.86	mg/L	No

2023 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	0.001 - 0.004	mg/L	334-347	mg/L	7.14	0

2023 Summary of Organic Parameters Tested

(1ug/L = 0.001mg/L; RAA=Rolling Annual Average)

Parameter	Sample Date	Standard (maximum concentration)	Unit of Measure	Result Value	Unit of Measure	Exceedance
Alachlor	01-Nov-2021	0.005	mg/L	< 0.3	ug/L	No
Atrazine + N-dealkylated metabolites	01-Nov-2021	0.005	mg/L	< 0.5	ug/L	No
Azinphos-methyl	01-Nov-2021	0.02	mg/L	< 1	ug/L	No
Benzene	01-Nov-2021	0.001	mg/L	< 0.5	ug/L	No
Benzo(a)pyrene	01-Nov-2021	0.00001	mg/L	< 0.006	ug/L	No
Bromoxynil	01-Nov-2021	0.005	mg/L	< 0.5	ug/L	No
Carbaryl	01-Nov-2021	0.09	mg/L	< 3	ug/L	No
Carbofuran	01-Nov-2021	0.09	mg/L	< 1	ug/L	No
Carbon Tetrachloride	01-Nov-2021	0.002	mg/L	< 0.2	ug/L	No
Chlorpyrifos	01-Nov-2021	0.09	mg/L	< 0.5	ug/L	No
Diazinon	01-Nov-2021	0.02	mg/L	< 1	ug/L	No
Dicamba	01-Nov-2021	0.12	mg/L	< 10	ug/L	No
1,2-Dichlorobenzene	01-Nov-2021	0.2	mg/L	< 0.5	ug/L	No
1,4-Dichlorobenzene	01-Nov-2021	0.005	mg/L	< 0.5	ug/L	No
1,2-Dichloroethane	01-Nov-2021	0.005	mg/L	< 0.5	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	01-Nov-2021	0.014	mg/L	< 0.5	ug/L	No
Dichloromethane	01-Nov-2021	0.05	mg/L	< 5	ug/L	No
2-4 Dichlorophenol	01-Nov-2021	0.9	mg/L	< 0.2	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	01-Nov-2021	0.1	mg/L	< 10	ug/L	No
Diclofop-methyl	01-Nov-2021	0.009	mg/L	< 0.9	ug/L	No

2023 Summary of Organic Parameters Tested (1ug/L = 0.001mg/L; RAA=Rolling Annual Average)						
Parameter	Sample Date	Standard (maximum concentration)	Unit of Measure	Result Value	Unit of Measure	Exceedance
<i>Dimethoate</i>	01-Nov-2021	0.02	mg/L	< 1	ug/L	No
<i>Diquat</i>	01-Nov-2021	0.07	mg/L	< 5	ug/L	No
<i>Diuron</i>	01-Nov-2021	0.15	mg/L	< 5	ug/L	No
<i>Glyphosate</i>	01-Nov-2021	0.28	mg/L	< 25	ug/L	No
<i>Haloacetic Acid (RAA)</i>	15-Jan-2024	0.08	mg/L	7.45	ug/L	No
<i>Malathion</i>	01-Nov-2021	0.19	mg/L	< 5	ug/L	No
<i>2 Methyl-4 Chlorophenoxyacetic (MCPA)</i>	01-Nov-2021	0.1	mg/L	< 10	ug/L	No
<i>Metolachlor</i>	01-Nov-2021	0.05	mg/L	< 3	ug/L	No
<i>Metribuzin</i>	01-Nov-2021	0.08	mg/L	< 3	ug/L	No
<i>Monochlorobenzene</i>	01-Nov-2021	0.08	mg/L	< 0.5	ug/L	No
<i>Paraquat</i>	01-Nov-2021	0.01	mg/L	< 1	ug/L	No
<i>Pentachlorophenol</i>	01-Nov-2021	0.06	mg/L	< 0.2	ug/L	No
<i>Phorate</i>	01-Nov-2021	0.002	mg/L	< 0.3	ug/L	No
<i>Picloram</i>	01-Nov-2021	0.19	mg/L	< 15	ug/L	No
<i>Polychlorinated Biphenyls (PCB)</i>	01-Nov-2021	0.003	mg/L	< 0.05	ug/L	No
<i>Prometryne</i>	01-Nov-2021	0.001	mg/L	< 0.1	ug/L	No
<i>Simazine</i>	01-Nov-2021	0.01	mg/L	< 0.5	ug/L	No
<i>THM (RAA)</i>	15-Jan-2024	0.100	mg/L	16	ug/L	No
<i>Terbufos</i>	01-Nov-2021	0.001	mg/L	< 0.5	ug/L	No
<i>Tetrachloroethylene</i>	01-Nov-2021	0.01	mg/L	< 0.5	ug/L	No
<i>2,3,4,6-Tetrachlorophenol</i>	01-Nov-2021	0.1	mg/L	< 0.2	ug/L	No
<i>Triallate</i>	01-Nov-2021	0.23	mg/L	< 10	ug/L	No
<i>Trichloroethylene</i>	01-Nov-2021	0.005	mg/L	< 0.5	ug/L	No
<i>2,4,6-Trichlorophenol</i>	01-Nov-2021	0.005	mg/L	< 0.2	ug/L	No
<i>Trifluralin</i>	01-Nov-2021	0.045	mg/L	< 0.5	ug/L	No
<i>Vinyl Chloride</i>	01-Nov-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 no capital works during the 2023 budgetary period. All significant expenses were regarding 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	Meter Change Program	<ul style="list-style-type: none"> • Replacement of meters installed in 2008 to radio read units • 77% system completed 	\$3,300
2	Glen Robertson WTP Building Expansion Engineering	<ul style="list-style-type: none"> • Engineering and design of expansions of building, wet well construction and well casing repairs 	\$8,500
3	Flushing/Sampling Station	<ul style="list-style-type: none"> • Due to limited available sampling areas due to size of system. Installation of a flushing and sampling station at end of distribution. 	\$7,500

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

The operating authority strives to remain compliant with the Drinking Water Quality Management Standard 2.0, the Safe Drinking Water Act and all associated regulations, procedures or guidelines. This approach is utilized to maintain a multi-barrier water treatment and distribution approach to ensure safeguarding of the drinking water.

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

Description	Number	Issue	Issue Date	Expiry Date
Municipal Drinking Water License	181-102	3	March 16, 2021	March 16, 2026
Water Works Permit	181-202	3	March 16, 2021	March 16, 2026
Permit to Take Water	3330-9UNQ2Q		March 20, 2015	March 16, 2025

The Township of North Glengarry and Operating Authority currently upholds the accreditation certification by maintaining and promoting the current Quality Management System currently in place. The Operational Staff actively participates in all system auditing requirements, and the annual system inspections as conducted through the Ministry of the Environment. All conformance and compliance issues identified throughout these system reviews have been addressed and are in the process of being corrected.

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 10.9% 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-Conformance and Non-Compliance with Licenses, Permits, Approvals and Orders

There was 1 instances of minor non-conformances identified during the annual external surveillance audit and 1 instance of non-compliance identified during the annual MECP system inspection. Once reported, the compliance coordinator reviewed all documentation and completed updates as required and submitted the reclassification application.

Parameter	Regulatory Document	Requirement	Date of Correction
Documentation Currency and not adhering to the Ministry's Director Direction.	-The Operational Plan shall document a procedure for document and records control - Director's Directions, Safe Drinking Water Act, 2002: Minimum Requirements for Operational Plans Municipal Drinking Water Systems, May 2021.	-(a) documents required by the QMS are (i) kept current -(3.3) all plans shall contain the following: (3) a completed copy of the subject system description form.	06-Dec-2023
System re-classification after replacement or alteration.	O.Reg 128/04	-s3.(3) If a system is to be replaced or altered, the owner of the subsystem shall apply for a redetermination of the type and class of the subsystem when approval of the alteration is applied for under the subsection 32 (1) of the Act	1-Dec-2023

There were no incidents that required reporting under O. Regulation 170/03. All license permit and/or approval requirements were met during this reporting period. Furthermore, there were no orders or additional requirements issued to this system.

2023 Reported Incident in accordance to subsection 18(1) of the Safe Drinking Water Act or Schedule 16 of O. Reg 170/03

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
n/a				•	

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 Council meeting held on February 26, 2024, 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 Road 34, south of 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 Road 34, RR2, Alexandria Ontario, K0C 1A0; or in writing by email to enviro@northglengarry.ca.

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

	January	February	March	April	May	June	July	August	September	October	November	December
1	24.2	25.2	23.6	27.1	24.9	35.1	21.1	22.7	19.6	24.4	19.4	20.5
2	23.8	21.3	21.0	27.8	23.4	37.5	23.0	22.3	23.2	21.8	22.5	22.3
3	21.9	22.2	20.2	21.4	22.9	34.6	26.1	21.1	25.1	22.0	19.4	23.7
4	22.5	36.2	26.4	22.2	24.6	34.4	21.0	23.3	24.9	19.4	24.5	22.3
5	23.7	64.2	25.5	19.9	23.5	29.5	21.5	32.7	19.4	20.4	22.0	24.0
6	23.7	69.1	22.8	22.8	26.9	22.5	24.1	28.3	19.5	22.7	22.2	20.9
7	27.3	31.1	23.4	24.7	26.0	28.7	22.4	23.9	18.9	23.7	20.2	25.1
8	22.8	21.8	22.3	24.9	26.7	23.6	27.8	23.5	18.1	24.5	19.4	22.8
9	21.5	23.0	24.1	25.4	22.5	19.7	33.2	21.2	22.2	23.2	19.5	24.1
10	22.1	20.5	22.5	22.3	23.8	28.1	28.4	24.6	23.7	22.5	21.1	24.4
11	22.0	26.3	30.5	21.5	36.2	35.3	26.9	21.3	27.7	21.1	27.5	24.3
12	23.7	24.4	22.2	21.1	23.3	34.9	25.0	23.0	20.1	19.6	22.7	27.1
13	20.7	20.9	21.8	22.1	27.2	22.7	26.1	23.9	20.7	21.1	19.5	21.1
14	26.8	20.4	21.2	25.2	33.2	23.9	26.2	26.4	21.0	23.0	21.5	19.9
15	24.0	20.6	22.2	23.3	31.4	24.0	19.9	21.3	21.5	24.0	24.5	21.4
16	25.8	19.3	22.4	26.4	25.9	28.8	26.8	25.1	22.2	21.6	20.3	22.0
17	22.3	22.1	21.9	24.0	26.6	27.3	47.5	21.1	24.6	20.8	21.5	22.0
18	21.3	25.4	24.4	23.1	23.1	25.0	29.9	24.3	23.5	25.8	22.9	23.4
19	19.4	23.8	24.8	22.4	28.7	22.0	32.5	23.2	19.2	29.3	25.1	21.6
20	22.6	22.8	24.7	19.5	25.9	32.2	27.3	22.7	20.3	23.0	29.3	21.5
21	23.1	23.9	22.9	24.2	28.3	44.1	23.2	28.2	26.3	25.7	28.3	22.7
22	24.9	24.5	21.6	27.0	30.0	34.2	20.9	21.8	21.0	27.3	21.7	24.4
23	26.5	27.2	21.7	27.8	23.1	27.4	29.4	33.4	23.9	21.2	26.7	26.4
24	23.5	29.0	21.1	23.2	25.5	21.7	23.3	22.9	23.7	19.2	19.5	24.7
25	26.9	26.0	25.9	25.5	26.5	23.6	30.5	20.3	27.1	24.1	24.3	22.7
26	28.3	24.0	26.7	23.7	31.6	21.5	23.3	22.9	23.3	24.4	22.8	21.0
27	24.7	22.6	22.2	22.2	36.2	20.9	27.2	23.1	29.6	21.7	19.5	22.9
28	29.5	22.6	23.6	21.2	39.8	24.3	23.1	26.3	19.4	20.7	21.0	22.0
29	26.4		22.9	25.6	38.5	31.2	22.9	23.3	20.5	28.0	22.7	21.1
30	24.0		20.1	25.6	32.1	20.4	20.8	23.3	22.8	21.2	20.0	25.2
31	24.0		20.0		33.4		32.6	23.4		18.8		22.6
Minimum	19.4	19.3	20.0	19.5	22.5	19.7	19.9	20.3	18.1	18.8	19.4	19.9
Maximum	29.5	69.1	30.5	27.8	39.8	44.1	47.5	33.4	29.6	29.3	29.3	27.1
Average	24.0	27.2	23.1	23.8	28.1	28.0	26.3	24.0	22.4	22.8	22.4	22.9
Total	743.9	760.4	716.6	713.1	871.7	839.1	813.9	744.8	673.0	706.2	671.5	710.1

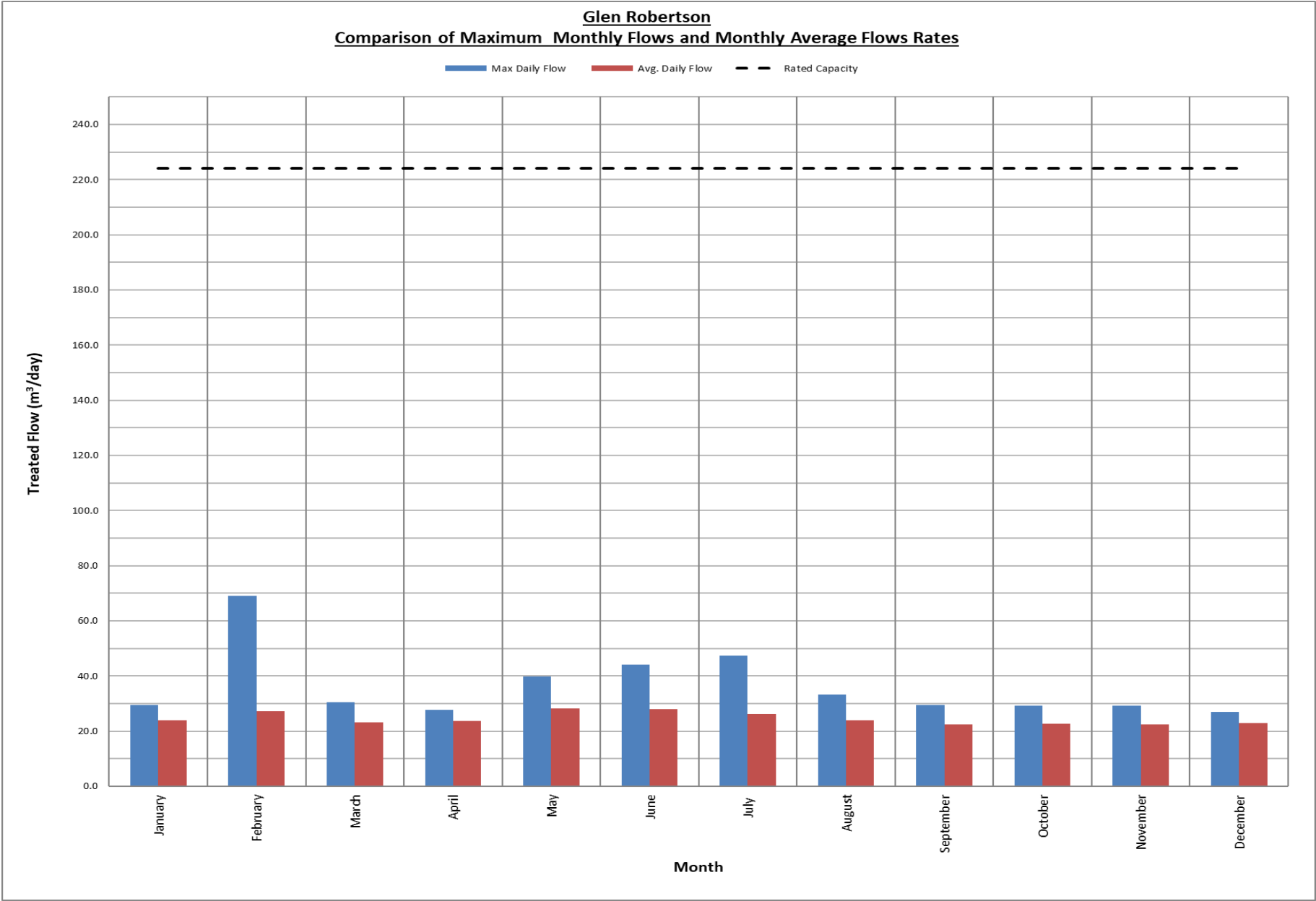
Annual Treated Flows Summary
18.1
69.1
24.6
8964.3

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

	January	February	March	April	May	June	July	August	September	October	November	December
1	1.54	1.47	1.24	1.53	1.41	2.10	1.24	1.20	1.13	1.44	1.26	1.89
2	1.45	1.12	1.71	1.50	1.56	1.68	1.39	1.44	1.36	1.38	1.33	1.28
3	1.42	0.98	1.32	1.25	1.31	1.90	1.48	1.14	1.46	1.45	1.30	1.29
4	1.54	1.59	1.46	1.36	1.62	1.78	1.60	1.32	1.45	1.22	1.26	1.23
5	1.41	1.90	1.59	1.27	1.25	1.63	1.28	1.79	1.30	1.44	1.34	1.20
6	1.28	2.06	1.38	1.38	1.39	1.30	1.39	1.51	1.28	1.31	2.00	1.35
7	1.53	1.55	1.22	1.36	1.39	1.67	1.23	1.47	1.31	1.40	1.32	1.30
8	1.66	1.33	1.37	1.32	1.55	1.83	1.41	1.39	1.14	1.48	1.27	1.57
9	1.31	1.40	1.58	1.43	1.30	1.20	1.56	1.21	1.28	1.52	1.16	1.48
10	1.38	1.53	1.34	1.13	1.18	1.60	1.41	1.22	1.50	1.12	1.29	1.47
11	1.37	1.52	1.55	1.50	1.83	1.88	1.47	1.26	1.46	1.40	1.37	1.38
12	1.31	1.23	1.49	1.22	1.26	2.00	1.42	1.27	1.22	1.27	1.57	1.29
13	1.25	1.25	1.48	1.26	1.53	1.57	1.40	1.27	1.24	1.65	1.32	1.23
14	1.27	1.15	1.29	1.47	1.52	1.28	1.35	1.52	1.18	1.35	1.10	1.28
15	1.48	1.35	1.28	1.43	1.55	1.36	1.37	1.40	1.20	1.29	1.32	1.39
16	1.51	1.19	1.43	1.36	1.55	1.60	1.43	1.81	1.34	1.52	1.10	1.37
17	1.33	1.44	1.27	1.39	1.37	1.43	1.72	1.16	1.56	1.31	1.35	1.48
18	1.61	1.58	1.49	1.65	1.64	1.35	1.54	1.32	1.42	1.47	1.39	1.19
19	1.49	1.43	1.38	1.36	1.51	1.45	1.58	1.50	1.17	1.47	1.67	1.58
20	1.34	1.44	1.37	1.22	1.83	1.45	1.56	1.45	1.41	1.33	1.64	1.26
21	1.33	1.61	1.36	1.71	1.44	1.22	1.31	1.52	1.35	1.35	1.32	1.48
22	1.50	1.39	1.40	1.58	1.65	1.94	1.39	1.28	1.42	1.55	1.29	1.28
23	1.43	1.47	1.64	1.40	1.28	1.44	1.69	1.75	1.46	1.27	1.33	1.37
24	1.40	1.26	1.30	1.63	1.77	1.44	1.41	1.26	1.45	1.64	0.98	1.32
25	1.52	1.41	1.56	1.59	1.55	1.41	1.59	1.21	1.46	1.40	1.47	1.53
26	1.67	1.37	1.67	1.31	1.62	1.54	1.50	1.49	1.48	1.40	1.78	1.19
27	1.51	1.65	1.32	1.25	1.74	1.16	1.30	1.30	1.88	1.25	1.13	1.55
28	1.41	1.28	1.44	1.48	1.80	1.56	1.17	1.40	1.18	1.39	1.96	1.52
29	1.21		1.42	1.24	1.92	1.69	1.33	1.98	1.25	1.60	1.31	1.05
30	1.60		1.22	1.44	1.59	1.25	1.19	1.46	1.88	1.20	1.22	1.31
31	1.55		1.34		1.64		1.62	1.31		1.12		1.34
Maximum	1.67	2.06	1.71	1.71	1.92	2.10	1.72	1.98	1.88	1.65	2.00	1.89
Average	1.44	1.43	1.42	1.40	1.53	1.56	1.43	1.41	1.37	1.39	1.37	1.37

Annual Treated Flows Summary
2.10
1.43

Appendix C: Comparison of Average and Maximum Monthly Treated Flow Rates



**CORPORATION OF THE
TOWNSHIP OF NORTH GLENGARRY**

Council Meeting

Resolution # 11

Date: Monday, February 26, 2024

Moved by: Jacques Massie

Seconded by: Jeff Manley

THAT the Council of the Township of North Glengarry receives Staff Report No. PW 2024-07 for information purposes only.

Carried

Deferred

Defeated

Mayor / Deputy Mayor