The Township of North Glengarry

Glen Robertson Well Supply System

2024 Annual 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, 2024, to December 31, 2024. 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: Drinking Water System Overview

The Glen Robertson Drinking Water System is composed of a treatment facility and a distribution system all located within the hamlet of Glen Robertson. This drinking water system obtains groundwater as its source to supply the residents within the hamlet with safe and reliable drinking water. It is categorized as a small municipal residential drinking water system, through the Ministry of Environment, Conservation and Parks.

In 2010 the source water was deemed to be groundwater under the direct influence of surface water (GUDI), and upgrades were completed to strengthen treatment processes. In 2024, the drinking water system was re-categorized as per O. Reg 128/04 from a limited supply system to a water treatment subsystem class 1 and a water distribution class 1.

Section 3: Treatment Process and Equipment Description

Well Supply & Pumping Station

The groundwater source for the Glen Robertson Drinking Water System is a drilled well, situated within the water treatment building located at 3342 Irwin St. This well houses a submersible pump rated at 5.1L/sec (67 IGPM) and is connected to the internal piping system in order to transmit raw water through the treatment processes prior to distribution. All treatment and monitoring equipment is also stored within the single-story brick building. To ensure site security and to protect against vandalism the property is enclosed by a chain link fence and the building is equipped and monitored by an automated alarm system.

Treatment Equipment

The raw water is pumped from the well through 2 particulate filters, a 5-micron followed by a 1-micron, prior to entering the ultraviolet light (UV) disinfection system for primary disinfection. As per the DWWP Schedule A description, 2 UV units are deemed to operate in duty mode with 1 unit on stand-by. All the UV units are are equipped with auto-shut down in the event of operational issues or equipment failure, but waterworks staff must manually rotate duty operations between UV units thus ensuring proper operation prior to being placed in service.

The disinfected water is then dosed with sodium hypochlorite to complete the primary disinfection process and ensure secondary disinfection can be achieved. The sodium hypochlorite system utilizes two diaphragm metering pumps, piping and an injection point in the discharge pipe to apply the chemical based on water flow. The pumps have automatic switchover capabilities if a problem develops with the lead pump during operation.

Located outside the building but within the fenced property boundaries, is an underground contact piping loop that contains a flushing port and a sample line, which feeds the on-line analyzers located in the treatment building.

Monitoring Equipment

Three on-line free chlorine analyzers are used for regulatory and non-regulatory monitoring of the primary and secondary disinfection processes. One analyzer measures residual directly after sodium hypochlorite injection

point, one analyzer measures residuals at the end of the contact loop, as the treated water enters the distribution system, and one analyzer is in place in the distribution to ensure continuously monitor.

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

Pneumatic pressure tanks are in service to ensure the distribution pressure is maintained between pump cycles and alarms are enabled and in place through the SCADA system, as previously described.

Emergency Power

A 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, with the transfer switch located within the water treatment building.

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 within the fenced 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.

Section 4: Flow Summary

In accordance with the Municipal Drinking Water License #181-102 and the Permit to Take Water (PTTW), the Glen Robertson Well Supply shall not be operated to exceed the maximum daily volume of water flowing from the well source or from the treatment process into the distribution system. Throughout this reporting period, the daily volumes recorded were well below the maximum allowable compliance limit of 224 m^3/day, as stipulated in both the license and permit listed above. In order to assess the drinking water system's capability to meet the existing demands and potential future development needs, a summary of the treated flow rates during this period was prepared and is presented in the chart below.

The 2024 average daily treated flow was calculated to be 24.1m^3 and the observed maximum daily flow was reported to be 71.7m^3. This represents 10.7% of the total plant rated capacity, please refer to the appendices for full 2024 annual data summary.

2024 Treated Flow Summary	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Maximum Daily Flow (m^3)	71.7	28.9	25.1	41.1	39.7	39.7	47.2	36.7	26.0	29.3	25.0	28.7
Monthly Average Flow (m^3)	26.1	23.3	21.0	24.3	25.2	29.3	25.8	25.5	22.1	22.5	21.3	23.0
Monthly Average Daily Maximum Instantaneous Flow (L/s)	2.00	1.53	1.48	1.47	1.69	2.52	1.75	1.82	1.55	1.55	1.61	1.61
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.

2024 Microbiological Testing Completed as per Schedule 11 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 - 3	0	
Treated	53	0 - 0	0 - 0	53	< 2 - 6
Distribution	106	0 - 0	0 - 0	106	< 2 - 2

2024 Operational Testing as per Schedule 7of O. Reg 170/03		
Parameter	Number of Grab Samples	Range of Results unit of measure is mg/L unless otherwise indicated
Raw Turbidity	253	0.10 – 9.76 NTU
Treated Free Chlorine	Continuous	0.83 – 2.17
Distribution Free Chlorine	Continuous	0.56 – 2.98
Fluoride *(If DWS provides fluoridation)*	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				

2024 Summary of Inorganic Chemical Parameters Tested as per Schedule 13 of O. Reg 170/03 *(1ug/L = 0.001mg/L; RAA=Rolling Annual Average)*					
Parameter	Sample Date	Standard (maximum concentration)	Result Value	Unit of Measure	Exceedance
Antimony	16-Sep-2024	0.006 mg/L	< 0.0001	mg/L	No
Arsenic	16-Sep-2024	0.01 mg/L	0.0001	mg/L	No
Barium	16-Sep-2024	1.0 mg/L	0.176	mg/L	No
Boron	16-Sep-2024	5.0 mg/L	0.027	mg/L	No
Cadmium	16-Sep-2024	0.005 mg/L	< 0.000015	mg/L	No
Chromium	16-Sep-2024	0.05 mg/L	< 0.0010	mg/L	No
Mercury	16-Sep-2024	0.001mg/L	< 0.00002	mg/L	No

2024 Summary of Inorganic Chemical Parameters Tested as per Schedule 13 of O. Reg 170/03 *(1ug/L = 0.001mg/L; RAA=Rolling Annual Average)*					
Parameter	Sample Date	Standard (maximum concentration)	Result Value	Unit of Measure	Exceedance
Selenium	16-Sep-2024	0.05 mg/L	< 0.001	mg/L	No
Uranium	16-Sep-2024	0.02 mg/L	0.00048	mg/L	No

2024 Summary of Organic Chemical Parameters Tested as per Schedule 13 of O. Reg 170/03 *(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	16-Sep-2024	0.005	mg/L	< 0.3	ug/L	No
Atrazine + N-dealkylated metabolites	16-Sep-2024	0.005	mg/L	< 0.5	ug/L	No
Azinphos-methyl	16-Sep-2024	0.02	mg/L	< 1	ug/L	No
Benzene	16-Sep-2024	0.001	mg/L	< 0.5	ug/L	No
Benzo(a)pyrene	16-Sep-2024	0.00001	mg/L	< 0.006	ug/L	No
Bromoxynil	16-Sep-2024	0.005	mg/L	< 0.5	ug/L	No
Carbaryl	16-Sep-2024	0.09	mg/L	< 3	ug/L	No
Carbofuran	16-Sep-2024	0.09	mg/L	< 1	ug/L	No
Carbon Tetrachloride	16-Sep-2024	0.002	mg/L	< 0.2	ug/L	No
Chlorpyrifos	16-Sep-2024	0.09	mg/L	< 0.5	ug/L	No
Diazinon	16-Sep-2024	0.02	mg/L	< 1	ug/L	No
Dicamba	16-Sep-2024	0.12	mg/L	< 1.0	ug/L	No
1,2-Dichlorobenzene	16-Sep-2024	0.2	mg/L	< 0.5	ug/L	No
1,4-Dichlorobenzene	16-Sep-2024	0.005	mg/L	<0.5	ug/L	No
1,2-Dichloroethane	16-Sep-2024	0.005	mg/L	< 0.5	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	16-Sep-2024	0.014	mg/L	< 0.5	ug/L	No
Dichloromethane	16-Sep-2024	0.05	mg/L	< 5	ug/L	No
2-4 Dichlorophenol	16-Sep-2024	0.9	mg/L	< 0.2	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	16-Sep-2024	0.1	mg/L	< 1.0	ug/L	No
Diclofop-methyl	16-Sep-2024	0.009	mg/L	< 0.9	ug/L	No
Dimethoate	16-Sep-2024	0.02	mg/L	< 1	ug/L	No
Diquat	16-Sep-2024	0.07	mg/L	< 5	ug/L	No
Diuron	16-Sep-2024	0.15	mg/L	< 5	ug/L	No
Glyphosate	16-Sep-2024	0.28	mg/L	< 25	ug/L	No
Malathion	16-Sep-2024	0.19	mg/L	< 5	ug/L	No
2-Methyl-4-Chlorophenoxyacetic (MCPA)	16-Sep-2024	0.1	mg/L	< 10	ug/L	No
Metolachlor	16-Sep-2024	0.05	mg/L	< 3	ug/L	No
Metribuzin	16-Sep-2024	0.08	mg/L	< 3	ug/L	No
Monochlorobenzene	01-Nov-2021	0.08	mg/L	< 0.5	ug/L	No
Paraquat	16-Sep-2024	0.01	mg/L	< 1	ug/L	No
Pentachlorophenol	16-Sep-2024	0.06	mg/L	< 0.2	ug/L	No
Phorate	16-Sep-2024	0.002	mg/L	< 0.3	ug/L	No

2024 Summary of Organic Chemical Parameters Tested as per Schedule 13 of O. Reg 170/03 (1ug/L = 0.001mg/L; RAA=Rolling Annual Average)						
Parameter	Sample Date	Standard (maximum concentration)	Unit of Measure	Result Value	Unit of Measure	Exceedance
Picloram	16-Sep-2024	0.19	mg/L	< 5.0	ug/L	No
Polychlorinated Biphenyls (PCB)	16-Sep-2024	0.003	mg/L	< 0.05	ug/L	No
Prometryne	16-Sep-2024	0.001	mg/L	< 0.1	ug/L	No
Simazine	16-Sep-2024	0.01	mg/L	< 0.5	ug/L	No
Terbufos	16-Sep-2024	0.001	mg/L	< 0.5	ug/L	No
Tetrachloroethylene	16-Sep-2024	0.01	mg/L	< 0.5	ug/L	No
2,3,4,6-Tetrachlorophenol	16-Sep-2024	0.1	mg/L	< 0.2	ug/L	No
Triallate	16-Sep-2024	0.23	mg/L	< 10	ug/L	No
Trichloroethylene	16-Sep-2024	0.005	mg/L	< 0.5	ug/L	No
2,4,6-Trichlorophenol	16-Sep-2024	0.005	mg/L	< 0.2	ug/L	No
Trifluralin	16-Sep-2024	0.045	mg/L	< 0.5	ug/L	No
Vinyl Chloride	16-Sep-2024	0.001	mg/L	< 0.2	ug/L	No

Inorganic or Organic Parameters that exceeded half the standard prescribed in Schedule 2 and 3 of O. Reg 169/03 (requiring increased monitoring for future sampling)			
Parameter	Result Value	Unit of Measure	Date of Sample
n/a			

2024 Summary of Additional Chemical Parameters Tested as per Schedule 13 of O. Reg 170/03 (1ug/L = 0.001mg/L; RAA=Rolling Annual Average)						
Parameter	Sample Date	Standard (maximum concentration)	Unit of Measure	Result Value	Unit of Measure	Exceedance
THM (RAA)	13-Jan-2025	0.100	mg/L	17.5	ug/L	No
Haloacetic Acid (RAA)	13-Jan-2025	0.08	mg/L	5.55	ug/L	No
Nitrate	13-Jan-2025	10.0	mg/L	0.44	mg/L	No
Nitrite	13-Jan-2025	1.0	mg/L	< 0.05	mg/L	No
Sodium	12-Sep-2022	20	mg/L	104	mg/L	Yes
Fluoride	12-Sep-2022	1.5	mg/L	< 0.1	mg/L	No

2024 Summary of Lead Testing as per Schedule 15.1 of O. Ref 170/03 (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			347 - 349	mg/L	7.04	No

Section 6: Significant Expenses Incurred

There were two capital works during the 2024 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	Header Pipe Replacement and Singer Valve Removal	• Removal of the defective singer valve • Reconfiguration and installation of the header pipe.	$13,400

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 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
Water Treatment Classification	10067		July 9, 2024	n/a
Water Distribution Classification	10068		July 9, 2024	n/a

The Glen Robertson Drinking Water System 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 10.7% 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 always operated 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 were no instances of minor non-conformances identified during the annual external surveillance audit and no instances of non-compliance identified during the annual MECP system inspection. All documentation and operations were within all compliance and conformance limits.

Parameter	Regulatory Document	Requirement	Date of Correction
n/a			

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.

2024 Reported Incident in accordance to subsection 18(1) 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 will be presented to all members of the municipal Council through the Public Works Committee meeting. 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 dean@northglengarry.ca.

Appendix A: Glen Robertson 2024 Daily Treated Flows (m^3)

	January	February	March	April	May	June	July	August	September	October	November	December
1	25.8	22.9	22.2	22.3	22.5	30.2	21.0	35.1	19.5	21.8	19.6	26.0
2	30.1	23.8	22.4	20.2	22.0	34.5	28.1	19.8	25.1	19.2	22.5	21.8
3	22.9	20.7	24.5	19.9	20.8	38.6	27.8	25.0	22.8	21.5	21.6	22.7
4	25.8	22.1	23.7	15.9	24.5	24.3	29.5	25.8	22.6	20.6	20.4	20.5
5	23.9	20.1	17.5	20.2	27.0	32.1	30.6	26.6	21.5	21.0	19.8	20.3
6	26.6	24.6	19.0	25.5	30.0	23.0	28.0	27.0	22.0	23.1	19.3	21.1
7	22.3	28.9	25.1	29.0	28.6	19.8	30.2	22.1	24.2	24.1	20.6	22.1
8	24.4	22.9	20.7	41.1	28.9	25.5	26.3	26.3	21.2	21.2	19.8	24.1
9	26.8	19.9	21.2	28.8	27.3	27.3	22.2	20.9	19.0	23.7	21.0	28.7
10	34.4	22.6	21.0	22.8	31.3	33.3	22.0	22.7	26.0	19.6	22.6	19.1
11	35.0	25.6	21.0	25.2	23.8	34.2	21.7	23.8	21.4	18.5	20.8	19.5
12	21.5	21.9	21.5	24.2	22.9	34.1	23.8	25.7	20.4	20.5	19.4	19.7
13	24.2	21.8	19.4	25.1	24.2	38.5	21.4	33.7	19.6	22.6	22.2	19.3
14	23.1	22.1	18.4	23.4	23.7	30.3	24.2	21.8	23.4	23.2	19.5	21.1
15	20.6	21.5	18.1	20.2	23.3	36.6	29.6	24.7	21.4	22.3	19.6	22.2
16	19.8	21.1	22.6	21.2	22.7	38.2	22.2	24.8	24.3	25.0	25.0	20.5
17	20.6	25.9	22.9	23.5	22.1	31.3	22.5	21.6	23.0	22.2	22.0	21.4
18	19.4	24.0	17.6	23.2	21.5	28.8	21.8	32.5	22.7	20.1	21.9	21.3
19	20.4	26.8	19.2	24.4	22.2	28.1	22.6	22.7	20.9	22.9	22.0	23.7
20	23.1	28.6	18.4	28.3	35.0	30.7	24.8	26.4	21.9	22.0	21.1	21.5
21	24.8	26.5	20.8	26.2	32.1	30.2	29.6	29.8	21.6	26.0	20.0	22.9
22	22.9	25.0	25.0	25.4	23.5	39.7	22.9	29.3	24.1	23.8	21.1	26.9
23	23.5	21.8	23.4	22.5	20.9	22.8	32.5	25.4	23.0	20.8	24.0	23.7
24	71.7	25.7	21.6	22.4	23.9	25.5	47.2	30.5	24.2	22.3	23.1	25.5
25	50.1	24.4	21.9	21.7	39.7	27.2	20.6	36.7	20.9	21.4	21.7	24.1
26	22.4	19.8	20.5	28.1	22.6	23.3	22.9	24.0	22.1	26.5	19.0	27.3
27	21.6	18.3	19.7	29.7	19.6	23.5	22.8	24.6	19.6	29.3	20.7	24.4
28	21.9	21.2	16.0	25.8	18.6	22.1	23.6	20.6	21.1	25.8	23.4	27.0
29	21.5	25.7	23.0	21.1	20.2	22.9	22.5	21.1	20.3	24.5	22.3	26.4
30	18.8		24.1	20.8	22.3	21.1	25.4	19.7	23.6	20.1	21.6	24.2
31	20.0		19.5		32.4		30.7	20.3		22.5		25.4

													Annual Treated Flows Summary
Minimum	18.8	18.3	16.0	15.9	18.6	19.8	20.6	19.7	19.0	18.5	19.0	19.1	15.9
Maximum	71.7	28.9	25.1	41.1	39.7	39.7	47.2	36.7	26.0	29.3	25.0	28.7	71.7
Average	26.1	23.3	21.0	24.3	25.2	29.3	25.8	25.5	22.1	22.5	21.3	23.0	24.1
Total	809.9	676.2	651.9	728.1	780.1	877.7	801.0	791.0	663.4	698.1	637.6	714.4	8829.4

Appendix B: Glen Robertson 2024 Treated Maximum Instantaneous Flows (L/s)

	January	February	March	April	May	June	July	August	September	October	November	December
1	0.30	0.27	0.26	0.26	0.26	0.35	0.24	0.41	0.23	0.25	0.23	0.30
2	0.35	0.28	0.26	0.23	0.25	0.40	0.33	0.23	0.29	0.22	0.26	0.25
3	0.27	0.24	0.28	0.23	0.24	0.45	0.32	0.29	0.26	0.25	0.25	0.26
4	0.30	0.26	0.27	0.18	0.28	0.28	0.34	0.30	0.26	0.24	0.24	0.24
5	0.28	0.23	0.20	0.23	0.31	0.37	0.35	0.31	0.25	0.24	0.23	0.23
6	0.31	0.28	0.22	0.30	0.35	0.27	0.32	0.31	0.25	0.27	0.22	0.24
7	0.26	0.33	0.29	0.34	0.33	0.23	0.35	0.26	0.28	0.00	0.24	0.26
8	0.28	0.27	0.24	0.48	0.33	0.30	0.30	0.30	0.25	0.25	0.23	0.28
9	0.31	0.23	0.25	0.33	0.32	0.32	0.26	0.24	0.22	0.27	0.24	0.33
10	0.40	0.26	0.24	0.26	0.36	0.39	0.00	0.26	0.30	0.23	0.26	0.22
11	0.41	0.30	0.24	0.29	0.28	0.40	0.25	0.28	0.25	0.21	0.24	0.23
12	0.25	0.25	0.25	0.28	0.27	0.39	0.28	0.30	0.24	0.24	0.22	0.23
13	0.28	0.25	0.22	0.29	0.28	0.45	0.25	0.39	0.23	0.26	0.26	0.22
14	0.27	0.26	0.21	0.27	0.27	0.35	0.28	0.25	0.27	0.27	0.23	0.24
15	0.24	0.25	0.21	0.23	0.27	0.42	0.34	0.29	0.25	0.26	0.23	0.26
16	0.23	0.24	0.26	0.25	0.26	0.44	0.26	0.29	0.28	0.29	0.29	0.24
17	0.24	0.30	0.27	0.27	0.26	0.36	0.26	0.25	0.27	0.26	0.25	0.25
18	0.22	0.28	0.20	0.27	0.25	0.33	0.25	0.38	0.26	0.23	0.25	0.25
19	0.24	0.31	0.22	0.28	0.26	0.33	0.26	0.26	0.24	0.27	0.25	0.27
20	0.27	0.33	0.21	0.33	0.41	0.36	0.29	0.31	0.25	0.25	0.24	0.25
21	0.29	0.31	0.24	0.30	0.37	0.35	0.34	0.34	0.25	0.30	0.23	0.27
22	0.27	0.29	0.29	0.29	0.27	0.46	0.27	0.34	0.28	0.28	0.24	0.31
23	0.27	0.25	0.27	0.26	0.24	0.26	0.38	0.29	0.27	0.24	0.28	0.27
24	0.83	0.30	0.25	0.26	0.28	0.30	0.55	0.35	0.28	0.26	0.27	0.30
25	0.58	0.28	0.25	0.25	0.46	0.31	0.24	0.42	0.24	0.25	0.25	0.28
26	0.26	0.23	0.24	0.33	0.26	0.27	0.27	0.28	0.26	0.31	0.22	0.32
27	0.25	0.21	0.23	0.34	0.23	0.27	0.26	0.28	0.23	0.34	0.24	0.28
28	0.25	0.25	0.19	0.30	0.22	0.26	0.27	0.24	0.24	0.30	0.27	0.31
29	0.25	0.30	0.27	0.24	0.23	0.27	0.26	0.24	0.23	0.28	0.26	0.31
30	0.22		0.28	0.24	0.26	0.24	0.29	0.23	0.27	0.23	0.25	0.28
31	0.23		0.23		0.38		0.36	0.23		0.26		0.29
Maximum	0.83	0.33	0.29	0.48	0.46	0.46	0.55	0.42	0.30	0.34	0.29	0.33
Average	0.30	0.27	0.24	0.28	0.29	0.34	0.29	0.30	0.26	0.25	0.25	0.27

Annual Treated Flows Summary
0.83
0.28

Appendix C: 2024 Comparative Monthly Treated Flows Rates