2025
Annual Drinking Water Report
and
Summary Report for Municipalities

Glen Walter Water Treatment

Version 2.0

Prepared by: _____ February 18, 2026

Dillen Seguin
Director of Water and Wastewater

Date

Approved by: _____ February 18 2026

David Kuhn
General Manager, Infrastructure Services

Date

Table of Contents

Regulations

Annual Report

O. Reg. 170/03 – Section 11

Summary Report for Municipalities

O. Reg. 170/-3 – Schedule 22

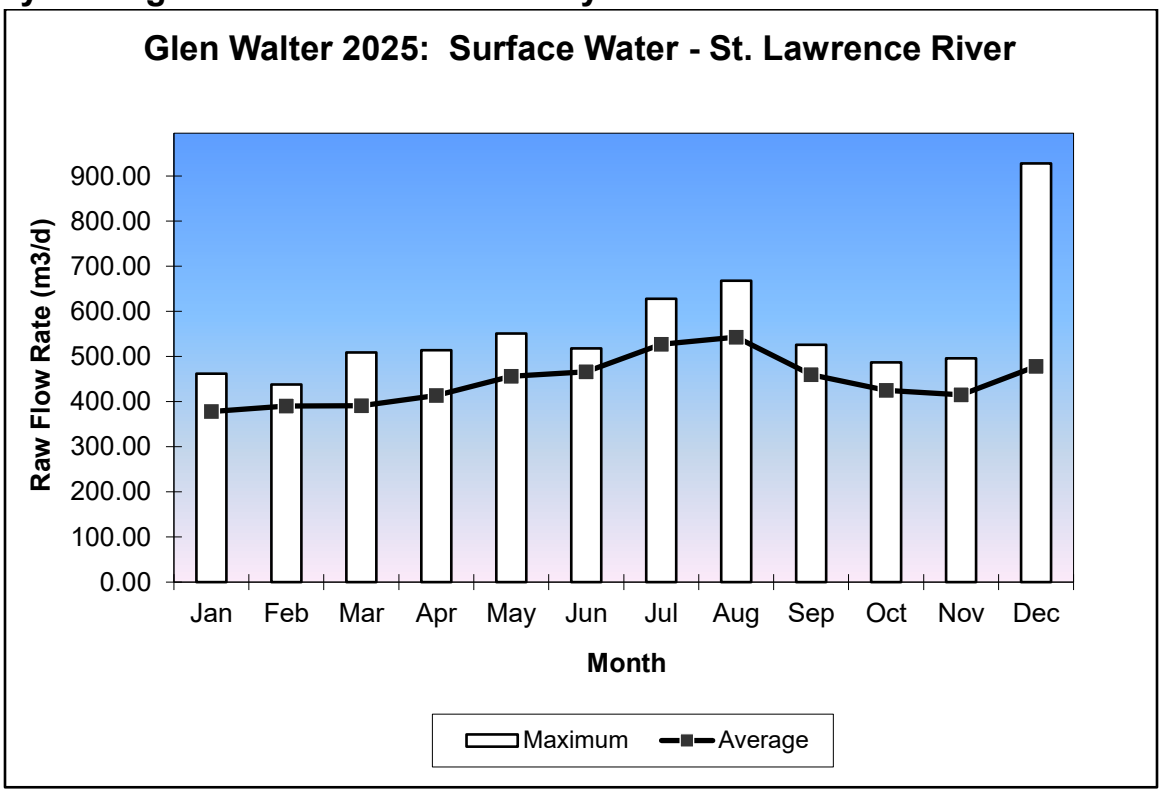
Revision History

Date	Description	Revision	Author
February 2, 2025	Initial Issue for Council Receipt	1.0	D. Seguin
February 18, 2026	Issued For Council Acceptance	2.0	D. Seguin

Glen Walter Water Treatment Plant – Annual Report

1. Flows

Daily Average and Maximum Raw Daily Flows

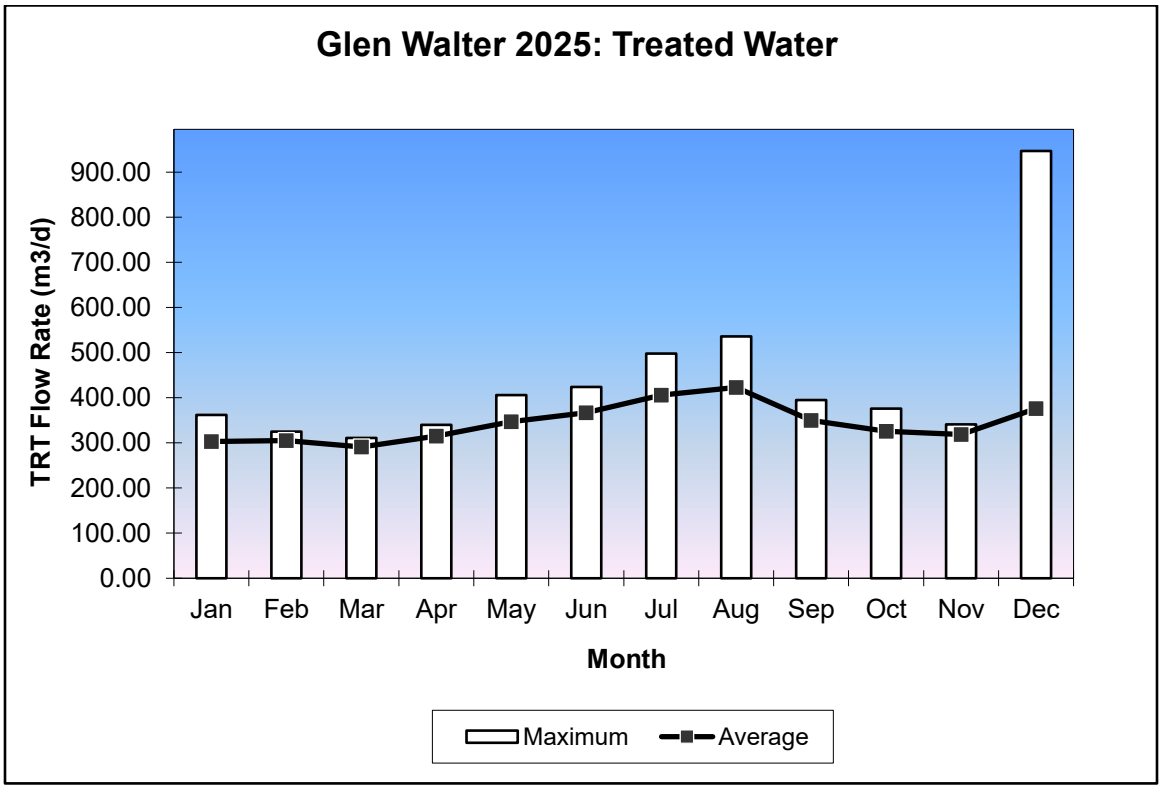


Permit To Take Water (3534-DG7N4P)	
Max Allowable Raw Water Flow:	995m^3/d
Year Max:	731m^3/day

Item(s) of Note:

- December, High Flow due to distribution break

Daily Average and Maximum Treated Daily Flows



Municipal Drinking Water License Rated Capacity (185-102)	
Max Allowable Raw Water Flow:	995m^3/d
Year Max:	687m^3/day

Item(s) of Note:

- December, High Flow due to distribution break

2. Compliance

A written report is prepared annually. This report is available for viewing at the Township of South Glengarry Municipal office, 6 Oak Street Lancaster or at the Glen Walter Water Treatment Plant located at 18352 County Road 2 in Glen Walter. A copy of the report is also available on the Townships website. A copy of the report is available free of charge to any resident requesting a copy. For more information on the Municipal water supply contact:

Township of South Glengarry
Water/Wastewater Division
Telephone: 613-347-1166 ex. 2504
Fax: 613-931-3340
E-mail: infrastructure@southglengarry.com

The Township of South Glengarry commitment policy is to provide a safe and reliable supply of drinking water to all its customers, meet or exceed the requirements of all legislation and regulations applicable to drinking water and maintain and continually improve its quality management system.

3. System Description

Overview

The Township of South Glengarry Glen Walter Water Treatment Plant is located approximately two kilometers east of Cornwall along County Road 2. The water plant is a surface water treatment facility serving the community of Glen Walter. The water treatment plant has a rated capacity of 995 cubic meters of water per day for a design population of 1,080 people.

The Township of South Glengarry utilizes the following accredited laboratory to ensure safe and potable water to meet or exceed Ministry standards. Caduceon Laboratory Ottawa. We are also a participant in the Ministry Drinking Water Surveillance Program.

The Township of South Glengarry Operators are all certified under the Ministry of Environment regulation 128/04 for Utility Operators Licensing Program.

The Township of South Glengarry water system uses sodium hypochlorite chlorine for disinfection and Aluminum Sulphate for a coagulant.

Equipment

Raw water is consumed through a 300 millimeter intake pipe and intake crib approximately 390 meters off shore into the St. Lawrence River at a depth of approximately 12 meters. The water plant consists of two low lift pumps rated at 11.52 litres per second, one flocculation tank, two rapid sand filters, two carbon contactors, three compartment clear well reservoir, two high lift pumps rated at 16.44 litres per second and one backwash pump together with all associated piping, electrical and mechanical equipment, control and alarm systems all housed in a common building.

Process

Raw water is pumped from the low lift pumping chamber, which is pre-chlorinated. A liquid coagulant is introduced into an in-line flash mixer, then flows under pressure into a flocculation tank. When the coagulation flocculation process is complete the water flows through rapid sand filters in parallel, then through the carbon contactor series, which removes any taste and odour in the drinking water. Chlorine is added after the carbon contactors for post disinfection. The chlorinated (potable) water enters the three-compartment storage reservoir, which is pumped to the distribution via high lift pumps. To allow for safe and potable water sampling and testing to be completed on a regular basis.

Distribution

The distribution system is comprised of varying sized water pipes, valves, and fire hydrants all supplied from the two high lift pumps situated at the Glen Walter Water Plant. Fire flow cannot be utilized within the Glen Walter system.

4. Operation Summary

Upgrades and or operational issues noted within Major Maintenance list.
The major maintenance undertaken on the Glen Walter system is provided in the table below.

Table 1. Major Maintenance (2025)

2025	Details
Jan.	Backflow Preventer Tested (Annually)
Mar.	Water Tower Commencement (1600L Elevated Tank)
Mar.	Hypo Pump Tube Replacements
Mar.	Hypo Line Replacement
Mar.	Scada Computer Upgrades/Replacement
May.	Valve Exercising Started
Jun.	Spring Hydrant Flushing
Jun.	Generator Maintenance/Tests
Jun.	Analytical Calibrations Third Party
Jul.	Filter Media Addition
Jul.	Clearwell Inspections
Jul.	BWA/Distribution Break and Repair
Sep.	Hypo System Solenoid Replacement
Sep.	Clean Chemical Pits
Oct.	Dist. Valve Replacement
Oct.	Water Tower Lifting
Oct	Fall Flush and Residual Checks
Oct.	Flow Meter Calibrations
Nov.	Winterize Hydrants
Dec.	Generator Maintenance/Load test
Dec.	Generator Repair at Water Plant – Faulty Fuel Pump
Dec.	Distribution Break and Repair

Glen Walter Water Treatment Plant – Summary Report

Ontario Drinking Water License #185-102

The Township of South Glengarry Water Treatment Department operated the Glen Walter Water Treatment Plant for the year 2025.

5. Non-Compliance

Adverse Water Quality Incidents

During the reporting year, there were no adverse water quality incidents (AWQI).

Incident #1

Incident Date:	-
Parameter:	-
Result:	-
Corrective Action:	-
Corrective Action Date:	-
Corrective Compliance:	-

Non-Compliance

During the reporting year, there was one (1) non-compliance in regard to a regulatory requirement.

Non-Compliance #1

Non-Compliance Date:	July 21st, 2025
Parameter:	Low Pressure/Failure to Maintain Air Gap
Result:	<20 psi Distribution break caused low pressure to approximately 125 -150 homes
Corrective Action:	Fix break in distribution and return pressure back to normal range and issue boil water advisory for affected residents until water samples could be tested.
Corrective Action Date:	July 22nd, 2025
Corrective Compliance:	Boil Water Rescinded: July 23rd, 2025

Non-Compliance Ministry Inspection

The ministry inspection occurred on and off site during the month of July.
Two regulatory compliance items identified in the report resulting in less than 100% compliance. (96.9%) A full copy of the report is available at The Glen Walter Water Treatment Plant Office.

Re: Glen Walter Drinking Water System Inspection Report

During the 2025 Annual inspection for the Glen Walter drinking water system, it was reported that non-compliance was observed with the legislative requirements.

This letter of correspondence is to address the actions required with the actions taken by the Township of South Glengarry for the report number:1-1482219854

Non-Compliance - 1

NC-1 (DWMR1115001)

The following instance(s) of non-compliance were also noted during the inspection: Two new coagulant pumps were installed during the inspection period, and although a Form 2 was completed as required, because the rated capacities of the new pumps were different than those referenced in the DWWP, a Director Notification should have been submitted within 30 days of the alteration being completed. Following the physical portion of the inspection, the Owner submitted the required Director Notification form on August 25, 2025. Additionally, the Owner is in the process of renewing the DWS's MDWL/DWWP and has ensured the ministry's review engineer reviewing the renewal documents is aware of the changes required to Schedule A of the system's DWWP.

ACTION TAKEN:

Procedure created outlining the steps required for pre-authorized and non-pre-authorized alterations to the drinking water system utilizing the appropriate forms/records as outlined in the DWWP.

Non-Compliance - 2

NC-2 (DWMR1018001)

The owner did not ensure that equipment was installed in accordance with Schedule A and Schedule C of the Drinking Water Works Permit. During the onsite portion of the inspection, it was noted that construction of the new elevated water storage tank in Glen Walter commenced on April 24, 2025, prior to a Schedule C amendment being approved by the Director and issued to the Owner.

ACTIONS REQUIRED:

1 - By December 31, 2025, the Owner SHALL submit to the Provincial Officer at michelle.gordon2@ontario.ca a procedure that outlines what steps need to be taken to ensure all proposed alterations to the drinking water system meet the requirements outlined in the DWWP. This procedure shall include, but is not limited to, the steps required for pre-authorized and non-pre-authorized alterations to the drinking water system, and shall include the appropriate use of the following forms/records as outlined in the DWWP:

- Form 1 – Record of Watermains Authorized as a Future Alteration

- Form 2 – Record of Minor Modifications or Replacements to the Drinking Water System

- Form 3 – Record of Addition, Modification, or Replacement of Equipment Discharging a Contaminant of Concern to the Atmosphere

- Schedule C – Authorization to Alter the Drinking Water System

- Director Notification Form

2 - The Owner SHALL notify the Director in writing within thirty (30) days of the placing into service or the completion of any addition, modification, replacement, removal or extension of the drinking water system which had been authorized through the approved Schedule C document. This notification shall be documented using the "Director Notification Form" available on the ministry's website at https://forms.mgcs.gov.on.ca/en/dataset/012-9166 and shall be submitted to the Director by email at mdwlp@ontario.ca and to the Provincial Officer by email at michelle.gordon2@ontario.ca.

ACTION TAKEN:

Procedure created outlining the steps required for pre-authorized and non-pre-authorized alterations to the drinking water system utilizing the appropriate forms/records as outlined in the DWWP.

6. Regulatory Sample Results

Statistics for Flow and Chemicals

A total of 162,424m³ of raw water had been treated for the year 2025 with a monthly average of 445m³ per day and a maximum flow of 928m³/day for the year. Maximum flow is equivalent to 93% plant capacity.

The Glen Walter Water Treatment Plant uses sodium hypochlorite for disinfection. A total of 483.06kg of sodium hypochlorite had been utilized for the year at an average dosage rate of 2.98mg/litre.

The Glen Walter Water Treatment Plant also uses aluminum sulphate as a coagulant in the treatment process. A total of 2.610m³ of aluminum sulphate was used.

Attached is the data spread sheet, which identifies flows, laboratory results, number of samples taken and chemical use on a monthly basis.

Municipality: Township of South Glengarry
Project: Glen Walter W.T.P
DWS # 210001861

Annual Report Data
2025

Water Source: St. Lawrence River
Design Capacity: 0.995 x 1000 m3/D

Description: Pressure Filter System - Carbon Contactors - Alum Coagulation - Sodium Hypochlorite Disinfection

	Raw Water Flow			Treated Water Flow			Chemical Usage		Treated Water									Distribution Water					
	Total X 1000 m3	Average X 1000 m3	Maximum Daily X 1000 m3	Total X 1000 m3	Average X 1000 m3	Maximum Daily X 1000 m3	Cl2 Total Kg Used	Alum Total L Used	Free Cl2 Residual mg/L Min.	Max.	Avg.	Average Turbidity NTU	Average Colour TCU	Average Aluminum mg/L	Nitrate NO3 mg/L	Nitrite NO2 mg/L	Free Cl2 Residual mg/L Min.	Max.	Avg.	THM ug/L	Lead µg/L	Lead µg/L
January	11.741	0.378	0.462	9.407	0.303	0.362	12.87	192.060	1.36	1.65	1.51	0.09	0.0	0.022	0.26	0.05	1.20	1.32	1.25	27.0		
February	10.924	0.390	0.438	8.552	0.305	0.325	29.53	188.100	1.16	1.69	1.45	0.05	0.0	0.038			0.96	1.70	1.24			
March	12.142	0.391	0.509	9.036	0.291	0.311	37.88	198.660	0.89	1.75	1.41	0.08	0.0	0.031			0.78	1.48	1.16			
April	12.433	0.414	0.514	9.461	0.315	0.340	35.66	196.020	0.90	1.71	1.53	0.10	0.0	0.032	0.32	0.05	0.88	1.42	1.22	36.0		
May	13.702	0.456	0.551	10.421	0.347	0.406	40.85	219.780	1.35	1.64	2.15	0.09	0.0	0.035			1.04	1.38	1.23			
June	14.000	0.466	0.518	11.032	0.367	0.424	46.08	225.720	1.20	1.43	1.32	0.13	0.0	0.056			0.90	1.12	1.02			
July	16.351	0.527	0.628	12.599	0.406	0.498	56.01	262.680	0.80	1.49	1.30	0.13	0.0	0.077	0.23	0.1	0.80	1.08	1.00	53.0		
August	16.837	0.543	0.668	13.131	0.423	0.536	57.62	265.320	1.17	1.97	1.38	0.09	0.0	0.107			0.90	1.32	1.06			
September	13.823	0.460	0.526	10.500	0.350	0.395	44.16	217.800	1.29	1.51	1.36	0.08	0.0	0.094			0.96	1.22	1.07			
October	13.182	0.425	0.487	10.123	0.326	0.376	42.41	210.540	1.09	1.66	1.45	0.09	0.0	0.056	0.06	0.05	0.98	1.18	1.11	39.0		
November	12.470	0.415	0.496	9.585	0.319	0.341	37.58	198.660	1.43	1.65	1.55	0.10	0.0	0.021			1.08	1.30	1.21			
December	14.819	0.478	0.928	11.686	0.376	0.947	42.41	235.620	0.45	1.70	1.50	0.09	0.0	0.031			0.74	1.25	1.18			
Total	162.424			125.533			483.06	2610.96														
Average	13.535	0.445	0.560	10.461	0.344	0.438	40.255	217.580	1.09	1.65	1.49	0.09	0.00	0.050	0.2175	0.063	0.94	1.31	1.15	38.8	#DIV/0!	#DIV/0!
Criteria			**0.995**			**0.995**			**0.2**				**5**	**0.1**	**10**	**1**	**0.05**			**100**	**10**	**10**
Maximum			0.928			0.947			0.45								0.74			38.8		
Compliance			**Yes**			**Yes**			**Yes**				**Yes**	**Yes**	**Yes**	**Yes**	**Yes**			**Yes**		

	Total # of Raw Samples	Raw Water Escherichia Coliform (cfu/100mL)			Raw Water Total Coliform (cfu/100mL)			Total # of Treated Samples	Treated Water Escherichia Coliform (cfu/100mL)		Treated Water Total Coliform (cfu/100mL)		Treated Water Heterotrophic Plate Count (cfu/100mL)		Total # of Dist. Samples	Distribution Water Escherichia Coliform (cfu/100mL)		Distribution Water Total Coliform (cfu/100mL)		Distribution Water Heterotrophic Plate Count (cfu/100mL)	
		Minimum	Maximun	Average	Minimum	Maximun	Average		Safe	Unsafe	Safe	Unsafe	Safe	Unsafe		Safe	Unsafe	Safe	Unsafe	Safe	Unsafe
January	**4**	0.0	1.0	0.3	0.0	4.0	2.5	**4**	4	0	4	0	4	0	**12**	12	0	12	0	12	0
February	**4**	0.0	0.0	0.0	0.0	2.0	1.5	**4**	4	0	4	0	4	0	**12**	12	0	12	0	12	0
March	**5**	0.0	0.0	0.0	0.0	50.0	15.4	**5**	5	0	5	0	5	0	**15**	15	0	15	0	15	0
April	**4**	0.0	0.0	0.0	0.0	0.0	0.0	**4**	4	0	4	0	4	0	**12**	12	0	12	0	12	0
May	**4**	0.0	0.0	0.0	0.0	133.0	33.3	**4**	4	0	4	0	4	0	**12**	12	0	12	0	12	0
June	**5**	0.0	0.0	0.0	0.0	0.0	0.0	**5**	5	0	5	0	5	0	**15**	15	0	15	0	15	0
July	**4**	0.0	0.0	0.0	0.0	1.0	0.25	**4**	4	0	4	0	4	0	**12**	12	0	12	0	12	0
August	**4**	0.0	0.0	0.0	0.0	4.0	1.0	**4**	4	0	4	0	4	0	**12**	12	0	12	0	12	0
September	5	0.0	0.0	0.0	0.0	1.0	0.20	**5**	5	0	5	0	5	0	**15**	15	0	15	0	15	0
October	4	0.0	0.0	0.0	0.0	0.0	0.0	**4**	4	0	4	0	4	0	**12**	12	0	12	0	12	0
November	4	0.0	0.0	0.0	0.0	1.0	0.25	**4**	4	0	4	0	4	0	**12**	12	0	12	0	12	0
December	5	0.0	4.0	1.4	0.0	18.0	7.8	**5**	5	0	5	0	5	0	15	15	0	15	0	15	0
Total	52							52							156						

Inorganic Parameters

GLEN WALTER WATER TREATMENT PLANT

INORGANIC PARAMETERS					
PARAMETER	**SAMPLE DATE**	**RESULT VALUE**	**MAC**	**UNIT OF MEASURE**	**EXCEEDANCE**
ANTIMONY	Jan-02-24	0.000100	0.006	mg/L	No
ARSENIC	Jan-02-24	0.000300	0.025	mg/L	No
BARIUM	Jan-02-24	0.020000	1.0	mg/L	No
BORON	Jan-02-24	0.020000	5.0	mg/L	No
CADMIUM	Jan-02-24	0.000015	0.005	mg/L	No
CHROMIUM	Jan-02-24	0.001000	0.050	mg/L	No
LEAD	Year 2023	0.000065	10.0	ug/L	No
MERCURY	Jan-02-24	0.000020	0.001	mg/L	No
SELENIUM	Jan-02-24	0.001000	0.010	mg/L	No
SODIUM	Aug 22 2022	16.700000	200.0	mg/L	No
URANIUM	Jan-02-24	0.000230	0.020	mg/L	No
FLUORIDE	Aug 22 2022	0.100000	1.5	mg/L	No
NITRITE	Year 2025	0.063000	1.0	mg/L	No
NITRATE	Year 2025	0.217500	10.0	mg/L	No

Eastern Ontario Health Unit MAC					
Sodium	Aug 22 2022	16.7	20	mg/L	No

Organic Parameters

GLEN WALTER WATER TREATMENT PLANT

ORGANIC PARAMETERS					
PARAMETER	**SAMPLE DATE**	**RESULT VALUE**	**MAC**	**UNIT OF MEASURE**	**EXCEEDANCE**
ALACHLOR	Jan-06-25	0.30	5	ug/L	No
ATRAZINE + N-DEALKYLATED METOBOLITES	Jan-06-25	0.50	5	ug/L	No
AZINPHOS-METHYL	Jan-06-25	1.00	20	ug/L	No
BENZO(A)PYRENE	Jan-06-25	0.01	0.01	ug/L	No
BENZENE	Jan-06-25	0.50	5	ug/L	No
BROMOXYNIL	Jan-06-25	0.50	5	ug/L	No
CARBON TETRACHLORIDE	Jan-06-25	0.20	5	ug/L	No
CARBARYL	Jan-06-25	3.00	90	ug/L	No
CARBOFURAN	Jan-06-25	1.00	90	ug/L	No
CHLORPYRIFOS	Jan-06-25	0.50	90	ug/L	No
1,2-DICHLOROBENZENE	Jan-06-25	0.50	200	ug/L	No
1,4-DICHLOROBENZENE	Jan-06-25	0.50	5	ug/L	No
1,2-DICHLOROETHANE	Jan-06-25	0.50	5	ug/L	No
1,1-DICHOROETHENE	Jan-06-25	0.50	1.4	ug/L	No
DICHLOROMETHANE	Jan-06-25	5.00	50	ug/L	No
DIAZINON	Jan-06-25	1.00	20	ug/L	No
DICAMBA	Jan-06-25	1.00	120	ug/L	No
2-4 DICHLOROPHENOL	Jan-06-25	0.20	900	ug/L	No
2,4-DICHLOROPHENOXY ACETIC ACID(2,4-D)	Jan-06-25	1.00	100	ug/L	No
DICLOFOP-METHYL	Jan-06-25	0.90	9	ug/L	No
DIMETHOATE	Jan-06-25	1.00	20	ug/L	No
DIQUAT	Jan-06-25	5.00	70	ug/L	No
DIURON	Jan-06-25	5.00	150	ug/L	No
GLYPHOSATE	Jan-06-25	25.00	280	ug/L	No
MALATHION	Jan-06-25	5.00	190	ug/L	No
METOLACHLOR	Jan-06-25	3.00	50	ug/L	No
METRIBUZIN	Jan-06-25	3.00	80	ug/L	No
PARAQUAT	Jan-06-25	1.00	10	ug/L	No
PENTACHLOROPHENOL	Jan-06-25	0.20	60	ug/L	No
PHORATE	Jan-06-25	0.30	2	ug/L	No
PICLORAM	Jan-06-25	5.00	190	ug/L	No
POLYCHLORINATED BIPHENYLS(PCB)	Jan-06-25	0.05	3	ug/L	No
PROMETRYNE	Jan-06-25	0.10	1	ug/L	No
SIMAZINE	Jan-06-25	0.50	10	ug/L	No
TETRACHLOROETHYLENE	Jan-06-25	0.50	30	ug/L	No
TRICHLOROETHYLENE	Jan-06-25	0.50	5	ug/L	No
TERBUFOS	Jan-06-25	0.50	1	ug/L	No
2,3,4,6-TETRACHOLOPHENOL	Jan-06-25	0.20	5	ug/L	No
TRIALLATE	Jan-06-25	10.00	230	ug/L	No
2,4,6-TRICHLOROPHENOL	Jan-06-25	0.20	5	ug/L	No
TRIFLURALIN	Jan-06-25	0.50	45	ug/L	No
Vinyl Chloride	Jan-06-25	0.20	2	ug/L	No
MCPA	Jan-06-25	10.00	100	ug/L	No
THM (NOTE: SHOW LATEST ANNUAL AVERAGE)	Year 2025	38.8	100	ug/L	No
HAA	Year 2025	19.0	80	ug/L	No