# Petawawa Drinking Water System

Waterworks # 210002101 System Category – Large Municipal Residential

## **Annual Water Report**

Prepared For: Town of Petawawa

Reporting Period of January 1st – December 31st, 2022

Issued: Feb 27, 2023

Revision: 1

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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### **Report Availability**

This system serves more than 10,000 residences and the annual report will be available to residents at the Town of Petawawa Municipal Office. Notification will be at the Municipal Office and copies provided free of charge, if requested. The Town of Petawawa office is located at 1111 Victoria Street in Petawawa, ON.

## **Compliance Report Card**

Compliance Event	# of Events
Ministry of the Environment, Conservation and Parks (MECP) Inspection(s)	Mar 4, 2022 – received 100% (2021-2022 Inspection period).
Ministry of Labour Inspection(s)	There were no inspections during the reporting period.
QEMS External Audit	Surveillance System Audit (S1 - Off-Site) held this year.  Completed on Nov 10, 2022 – No Non-Conformances; One (1)  OFI identified.
AWQI's	Three (3)
Non-Compliances	Two (2)
Community Complaints	Nine (9) Community Complaints: Frozen Water line - 5 Low water pressure - 2 Taste & Odour - 2
Spills	There were no Spills reported during the reporting period.
Water Main Breaks	Three (3)

## **System Process Description**

#### **Raw Source**

The source water to the Petawawa WTP is the Ottawa River (Allumette Lake). Once water is treated, it is supplied to the distribution system. The Petawawa WTP supplies water to Garrison Petawawa (Federal Jurisdiction). The south end of the distribution system is connected (only if required) to the City of Pembroke/Laurentian Valley Drinking Water System. Flow is controlled using Booster Pumping Station #1.

#### **Treatment**

Petawawa Water Treatment Plant is a conventional water treatment system using coagulation, flocculation, and sedimentation processes. Pre and post pH adjustment is also utilized. Dual media filters provide filtration, and chlorine gas is used for disinfection. Fluoridation is also practiced.

#### Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
PAX-XL6	Coagulant	Kemira
Fluoride	Fluoridation	Brenntag
Soda Ash Dense (bulk/bags)	pH Adjustment	Brenntag/Reliable Industrial Supply
Chlorine Gas	Disinfection	Brenntag
Superfloc A-100 Flocculant	Coagulant Aid (Polymer)	Kemira

#### **Distribution**

The distribution consists of a network of piping, three (3) towers and two (2) booster pumping stations. The distribution system consists of about 4105 service connections in the Town of Petawawa, approximately 3962 of which are residential. There are approx. 37 dead ends and approx. 606 fire hydrants. The distribution pipes are made of asbestos cement, cast iron, and polyvinyl chloride (PVC).

## **Summary of Non-Compliances**

#### **Adverse Water Quality Incidents**

Date	AWQI#	Location	Problem	Details	Legislation	Corrective Action Taken
Jul 19, 2022	N/A	Distribution System	HAA RAA Exceedance – Q2 of 2022	HAA formation problem in the distribution system	Result of 89.2 (MAC is 80 ug/L)	Sent to MECP SAC, MECP local office Water Inspector, MOH, and client the AWQI form, Section 2C, to notify of exceedance. No further actions required.
Oct 3, 2022	N/A	Distribution System	HAA RAA Exceedance – Q3 of 2022	HAA formation problem in the distribution system	Result of 86.5	Sent to MECP SAC, MECP local office Water Inspector, MOH, and client the AWQI form, Section 2C, to notify of exceedance. No further actions required.
Jan 9, 2023	N/A	Distribution System	HAA RAA Exceedance – Q4 of 2022	HAA formation problem in the distribution system	Result of 84.7	Sent to MECP SAC, MECP local office Water Inspector, MOH, and client the AWQI form, Section 2C, to notify of exceedance. No further actions required.

#### **Non-Compliances**

Legislation	Requirement(s) system failed to meet	Duration of the failure (i.e. date(s))	Corrective Action	Status
O. Reg. 170/03 Schedule 15. 1- 4(2)1	Failed to complete sampling of pH and alkalinity (lead sampling program) by the	April 16-20, 2022	Sampling for these parameters was completed on April 20th and submitted to the lab for testing	Completed

	end of the winter session of April 15 <sup>th</sup> , 2022			
MDWL #199- 101(#3) Schedule C, Section 1.5	Annual RAA of Backwash Total Chlorine Exceedance	Jun 2021-2022	Presently, we have the supernatant from the backwash facilities being discharged to the on-site sewer station that is directed to the PT WPCP for treatment and disinfection	Ongoing

#### Non-Compliances Identified in a Ministry Inspection: (2021-2022 Inspection)

Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	failure Corrective Action			
There were no non-compliances in the Ministry inspection, reported during the reporting period.						

#### **Flows**

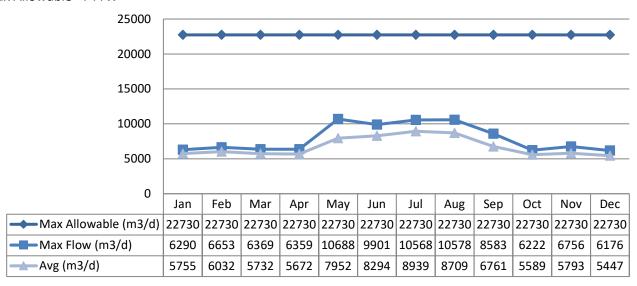
In 2022, the average day flow was at approximately 28.7% of the current plant design for the Petawawa Drinking Water System, and the maximum day flow was at approximately 45.7% of the plant design of 21 500 m<sup>3</sup>/d.

#### **Raw Water Flows**

The Raw Water flows are regulated under the Permit to Take Water. 2020 Raw Flow Data was submitted to the Ministry electronically under permit #3814-9J2RQN. The confirmation and a copy of the data that was submitted are attached in Appendix A.

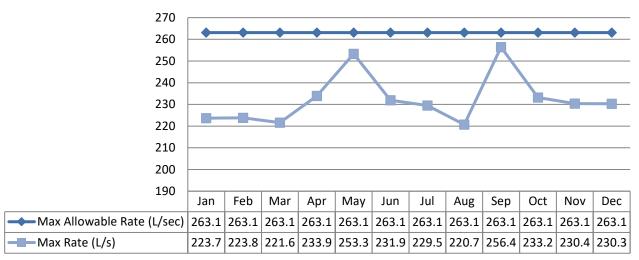
#### Total Monthly Flows (m3/d)

Max Allowable - PTTW



#### Monthly Rated Flows (L/s)

#### Max allowable rate - PTTW

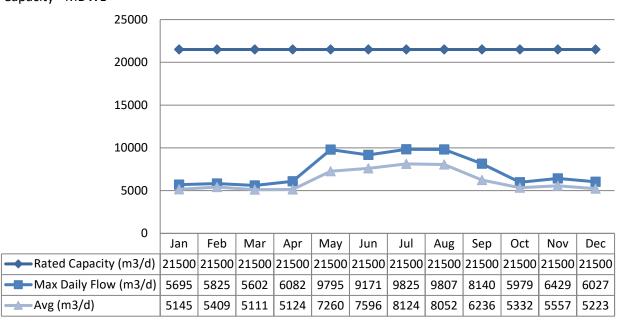


#### **Treated Water Flows**

The Treated Water flows are regulated under the Municipal Licence.

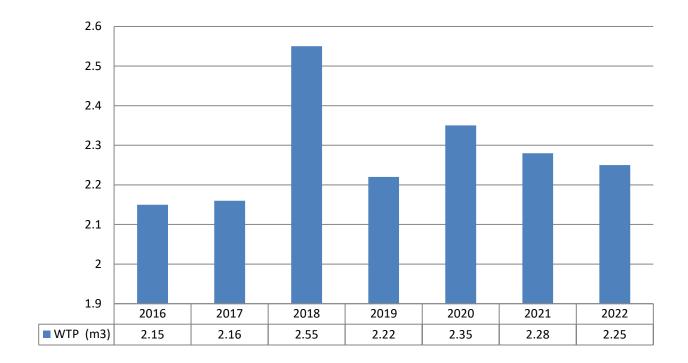
#### **Monthly Rated Flows**

#### Rated Capacity - MDWL



#### Annual Total Flow Comparison

Total Annual m3(x 10<sup>6</sup>)



**Regulatory Sample Results Summary** 

#### **Microbiological Testing**

	No. of Samples Collected	Range of E. Coli Results		Range of Total Coliform Results		Range of HPC Results		
		Min	Max	Min	Max	No. Samples	Min	Max
Raw Water	52	0	8	0	39			
Treated Water	51	0	0	0	0	51	0	217
Distribution Water	376	0	0	0	0	107	0	137

#### **Operational Testing**

	No. of Samples	Range o	of Results
	Collected	Minimum	Maximum
Turbidity, In-House (NTU) - RW	104	0.88	9.80
Turbidity, On-Line (NTU) - RW	8760	0.10	5.71
Turbidity, In-House (NTU) - TW	104	0.04	0.16
Turbidity, In-House (NTU) - Filt1	104	0.04	0.25
Turbidity, On-Line (NTU) – Filt1	8760	0.02	0.83
Turbidity, In-House (NTU) - Filt2	104	0.04	0.21
Turbidity, On-Line (NTU) – Filt2	8760	0.01	0.90
Turbidity, In-House (NTU) - Filt3	104	0.05	0.22
Turbidity, On-Line (NTU) – Filt3	8760	0.01	0.78
Free Chlorine Residual, In-House (mg/L) - TW	106	0.81	2.14
Free Chlorine Residual, On-Line (mg/L) - TW	8760	0.44	3.41
Total Chlorine Residual, In-House (mg/L) - TW	106	0.97	2.43
Free Chlorine Residual, In-House (mg/L) - DW	376	0.31	1.83
Free Chlorine Residual, On-Line (mg/L) - DW	8760	0.07	5.31
Fluoride Residual, In-House (mg/L) - TW	135	0	0.80
Fluoride Residual, On-Line (mg/L) - TW	8760	0	1.09

NOTE: Spikes/Drops to zero recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with MDWL.

#### **Inorganic Parameters**

These parameters are tested as a requirement under 170/03. Sodium and Fluoride are required to be tested every 5 years. Nitrate and Nitrite are tested quarterly and the metals are tested annually, as required under 170/03. In the event any of the parameters exceed half of the maximum allowable concentration, the parameter is required to be sampled quarterly.

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

	Sample Date	Sample Date Sample Result		No. of Exceedances	
	(yyyy/mm/dd)	mg/L	mg/L	MAC	1/2 MAC
Treated Water					
Antimony: Sb (mg/L) - TW	2022/01/10	<mdl 0.5<="" td=""><td>6.0</td><td>No</td><td>No</td></mdl>	6.0	No	No
Arsenic: As (mg/L) - TW	2022/01/10	<mdl 1.0<="" td=""><td>10.0</td><td>No</td><td>No</td></mdl>	10.0	No	No
Barium: Ba (mg/L) - TW	2022/01/10	<mdl 10.0<="" td=""><td>1000.0</td><td>No</td><td>No</td></mdl>	1000.0	No	No

	Sample Date	Sample Result	MAC	No. of Exc	eedances
	(yyyy/mm/dd)	mg/L	mg/L	MAC	1/2 MAC
Boron: B (mg/L) - TW	2022/01/10	<mdl 10.0<="" td=""><td>5000.0</td><td>No</td><td>No</td></mdl>	5000.0	No	No
Cadmium: Cd (mg/L) - TW	2022/01/10	<mdl 0.1<="" td=""><td>5.0</td><td>No</td><td>No</td></mdl>	5.0	No	No
Chromium: Cr (mg/L) - TW	2022/01/10	<mdl 1.0<="" td=""><td>50.0</td><td>No</td><td>No</td></mdl>	50.0	No	No
Mercury: Hg (mg/L) - TW	2022/01/10	<mdl 0.1<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Selenium: Se (mg/L) - TW	2022/01/10	<mdl 1.0<="" td=""><td>50.0</td><td>No</td><td>No</td></mdl>	50.0	No	No
Uranium: U (mg/L) - TW	2022/01/10	<mdl 1.0<="" td=""><td>20.0</td><td>No</td><td>No</td></mdl>	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2022/12/28	0.53	1.5	No	Yes
Nitrite (mg/L) - TW	2022/01/10	<mdl 0.1<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Nitrite (mg/L) - TW	2022/04/04	<mdl 0.1<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Nitrite (mg/L) - TW	2022/07/04	<mdl 0.1<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Nitrite (mg/L) - TW	2022/10/03	<mdl 0.1<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Nitrate (mg/L) - TW	2022/01/10	0.20	10.0	No	No
Nitrate (mg/L) - TW	2022/04/04	0.25	10.0	No	No
Nitrate (mg/L) - TW	2022/07/04	0.21	10.0	No	No
Nitrate (mg/L) - TW	2022/10/03	0.26	10.0	No	No
Sodium: Na (mg/L) - TW	2019/04/29	14.0	20.0*	No	Yes

<sup>\*</sup>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 mg/L 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 Sampling: Lead

The Schedule 15 Sampling is required under MDWL. This system is under the plumbing exemption, therefore, hydrant samples only were collected. (\*Lead will be sampled again in 2024 – every 3 years)

Distribution System	Number of Sampling	Number of Samples	Range o	f Results	MAC	Number of
Distribution system	Points	Number of Samples	Minimum	Maximum	(mg/L)	Exceedances
Alkalinity (mg/L)	4	8	30	37	500	0
рН	4	8	6.98	7.46	8.5	0
Lead (mg/L)	N/A	N/A	N/A	N/A	N/A	N/A

#### **Organic Parameters**

These parameters are tested annually as a requirement under MDWL. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

	Sample Date	Sample Result	MAC	Number of Exceedances	
	(yyyy/mm/dd)			MAC	1/2 MAC
Treated Water					
Alachlor (ug/L) - TW	2022/01/10	<mdl 0.5<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2022/01/10	<mdl 1.0<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
Azinphos-methyl (ug/L) - TW	2022/01/10	<mdl 2.0<="" td=""><td>20.00</td><td>No</td><td>No</td></mdl>	20.00	No	No
Benzene (ug/L) - TW	2020/01/10	<mdl 0.5<="" td=""><td>1.00</td><td>No</td><td>No</td></mdl>	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2022/01/10	<mdl 0.01<="" td=""><td>0.01</td><td>No</td><td>Yes*</td></mdl>	0.01	No	Yes*
Bromoxynil (ug/L) - TW	2022/01/10	<mdl 0.5<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
Carbaryl (ug/L) - TW	2022/01/10	<mdl 5.0<="" td=""><td>90.00</td><td>No</td><td>No</td></mdl>	90.00	No	No

MAC   Carbofuran (ug/L) - TW   2022/01/10   MDL 5.0   90.00   No   No   No   Carbon Tetrachloride (ug/L) - TW   2022/01/10   MDL 0.2   2.00   No   No   No   Chlorpyrifos (ug/L) - TW   2022/01/10   MDL 1.0   90.00   No   No   No   Diaznion (ug/L) - TW   2022/01/10   MDL 1.0   20.00   No   No   No   Diaznion (ug/L) - TW   2022/01/10   MDL 1.0   20.00   No   No   No   Diaznion (ug/L) - TW   2022/01/10   MDL 1.0   20.00   No   No   No   No   Diaznion (ug/L) - TW   2022/01/10   MDL 0.4   200.00   No   No   No   1,2-Dichlorobenzene (ug/L) - TW   2022/01/10   MDL 0.4   200.00   No   No   No   1,2-Dichlorobenzene (ug/L) - TW   2022/01/10   MDL 0.4   200.00   No   No   No   1,2-Dichlorobenzene (ug/L) - TW   2022/01/10   MDL 0.5   14.00   No   No   1,2-Dichlorobenzene (ug/L) - TW   2022/01/10   MDL 0.5   14.00   No   No   1,2-Dichlorobenzene (ug/L) - TW   2022/01/10   MDL 0.5   14.00   No   No   No   2,4-Dichlorobenzene (ug/L) - TW   2022/01/10   MDL 0.5   14.00   No   No   2,4-Dichlorophenol (ug/L) - TW   2022/01/10   MDL 1.0   90.00   No   No   2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW   2022/01/10   MDL 1.0   90.00   No   No   Dimethoate (ug/L) - TW   2022/01/10   MDL 1.5   20.00   No   No   Dimethoate (ug/L) - TW   2022/01/10   MDL 1.5   20.00   No   No   Dimethoate (ug/L) - TW   2022/01/10   MDL 1.5   20.00   No   No   Dimethoate (ug/L) - TW   2022/01/10   MDL 1.0   280.00   No   No   No   MDL 1.0   100.00   No   No   No   MDL 1.0   100.		Sample Date	Sample Result	MAC	Number of Exceedances	
Carbon Tetrachloride (ug/L) - TW 2022/01/10		(yyyy/mm/dd)		WAC	MAC	
Chlorpyrifos (ug/L) - TW 2022/01/10	Carbofuran (ug/L) - TW	2022/01/10	<mdl 5.0<="" td=""><td>90.00</td><td>No</td><td>No</td></mdl>	90.00	No	No
Diazinon (ug/L) - TW         2022/01/10         < MDL 1.0	Carbon Tetrachloride (ug/L) - TW	2022/01/10	<mdl 0.2<="" td=""><td>2.00</td><td>No</td><td>No</td></mdl>	2.00	No	No
Dicamba (ug/L) - TW	Chlorpyrifos (ug/L) - TW	2022/01/10	<mdl 1.0<="" td=""><td>90.00</td><td>No</td><td>No</td></mdl>	90.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	Diazinon (ug/L) - TW	2022/01/10	<mdl 1.0<="" td=""><td>20.00</td><td>No</td><td>No</td></mdl>	20.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	Dicamba (ug/L) - TW	2022/01/10	<mdl 1.0<="" td=""><td>120.00</td><td>No</td><td>No</td></mdl>	120.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	1,2-Dichlorobenzene (ug/L) - TW	2022/01/10	<mdl 0.4<="" td=""><td>200.00</td><td>No</td><td>No</td></mdl>	200.00	No	No
1,1-Dichloroethylene (ug/L) - TW Dichloromethane (Methylene Chloride) (ug/L) - TW 2,4-Dichlorophenol (ug/L) - TW 2,4-Dichlorophenol (ug/L) - TW 2,4-Dichlorophenol (ug/L) - TW 2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW 2,022/01/10 2,4-Dichlorophenoxy acetic acid (4,4-D) (ug/L) - TW 2,4-Dichlorophenoxy acetic acid (4,4-Dichlorophenoxy acetic acid (4,4-Dichlorophenoxy acetic acid (4,4-Dichlorophenoxy acetic acid (4,4-Dichlor	1,4-Dichlorobenzene (ug/L) - TW		<mdl 0.4<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW Dichloromethane (Methylene Chloride) (ug/L) - TW 2,4-Dichlorophenol (ug/L) - TW 2,4-Dichlorophenol (ug/L) - TW 2,4-Dichlorophenol (ug/L) - TW 2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW 2,022/01/10 2,4-Dichlorophenoxy acetic acid (4,4-D) (ug/L) - TW 2,4-Dichlorophenoxy acetic acid (4,4-Dichlorophenoxy acetic acid (4,4-Dichlorophenoxy acetic acid (4,4-Dichlorophenoxy acetic acid (4,4-Dichlor	1,2-Dichloroethane (ug/L) - TW		<mdl 0.2<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW   2022/01/10   <mdl (2,4-d)="" (3,4-d)="" (ug="" -="" 0.0="" 0.5="" 01="" 1.0="" 10="" 100.00="" 150.00="" 2,4-dichlorophenol="" 2.00="" 20.00="" 2022="" 4.0="" 50.00="" 9.00="" 900.00="" <mdl="" acetic="" acid="" dichlorophenoxy="" l)="" molahilon="" no="" no<="" poraquat="" porate="" td="" tetrablorophenol="" tw=""  =""><td>·</td><td></td><td></td><td></td><td></td><td></td></mdl>	·					
2,4-Dichlorophenol (ug/L) - TW       2022/01/10 <mdl 1.0<="" td="">       900.00       No       No         2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW       2022/01/10       <mdl 1.0<="" td="">       100.00       No       No         Diclofop-methyl (ug/L) - TW       2022/01/10       <mdl 0.9<="" td="">       9.00       No       No         Dimethoate (ug/L) - TW       2022/01/10       <mdl 5.5<="" td="">       20.00       No       No         Diquat (ug/L) - TW       2022/01/10       <mdl 5.0<="" td="">       70.00       No       No         Diuron (ug/L) - TW       2022/01/10       <mdl 10.0<="" td="">       150.00       No       No         Glyphosate (ug/L) - TW       2022/01/10       <mdl 10.0<="" td="">       280.00       No       No         Malathion (ug/L) - TW       2022/01/10       <mdl 1.0<="" td="">       190.00       No       No         Metolachlor (ug/L) - TW       2022/01/10       <mdl 1.0<="" td="">       100.00       No       No         Metribuzin (ug/L) - TW       2022/01/10       <mdl 1.0<="" td="">       50.00       No       No         Monochlorobenzene (Chlorobenzene) (ug/L) - TW       2022/01/10       <mdl 0.5<="" td="">       80.00       No       No         Peraquat (ug/L) - TW       2022/01/10       <mdl 1.0<="" td="">       10.00       No       No</mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl>			+		No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW       2022/01/10 <mbody>       MDL 1.0       100.00       No       No         Diclofop-methyl (ug/L) - TW       2022/01/10       <mbody> <mbody>       No       No       No         Dimethoate (ug/L) - TW       2022/01/10       <mbody> <mbody>       MDL 1.0.       20.00       No       No         Diuron (ug/L) - TW       2022/01/10       <mbody> <mbody>       MDL 10.0       150.00       No       No         Glyphosate (ug/L) - TW       2022/01/10       <mbody> <mbody>       MDL 10.0       280.00       No       No         Malathion (ug/L) - TW       2022/01/10       <mbody> <mbody>       MDL 10.0       280.00       No       No         Malathion (ug/L) - TW       2022/01/10       <mbody> <mbody>       MDL 10.0       190.00       No       No         2-Methyl-4-chlorophenoxyacetic Acid (MCPA) (ug/L) - TW       2022/01/10       <mbody>       MDL 1.0       100.00       No       No         Metolachlor (ug/L) - TW       2022/01/10       <mbody> <mbody>       MDL 1.0       100.00       No       No         Metolachlor (ug/L) - TW       2022/01/10       <mbody> <mbody>       No       No       No         Perarquat (ug/L) - TW       20</mbody></mbody></mbody></mbody></mbody></mbody></mbody></mbody></mbody></mbody></mbody></mbody></mbody></mbody></mbody></mbody></mbody></mbody>	2,4-Dichlorophenol (ug/L) - TW		+		No	No
Diciofop-methyl (ug/L) - TW         2022/01/10         < MDL 0.9         9.00         No         No           Dimethoate (ug/L) - TW         2022/01/10 <mdl 2.5<="" td="">         20.00         No         No           Diquat (ug/L) - TW         2022/01/10         <mdl 5.0<="" td="">         70.00         No         No           Diuron (ug/L) - TW         2022/01/10         <mdl 10.0<="" td="">         150.00         No         No           Glyphosate (ug/L) - TW         2022/01/10         <mdl 10.0<="" td="">         150.00         No         No           Malathion (ug/L) - TW         2022/01/10         <mdl 10.5<="" td="">         190.00         No         No           2-Methyl-4-chlorophenoxyacetic Acid (MCPA) (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         190.00         No         No           Metolachlor (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         100.00         No         No           Metribuzin (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         50.00         No         No           Metribuzin (ug/L) - TW         2022/01/10         <mdl 5.0<="" td="">         80.00         No         No           Metribuzin (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         10.00         No         No           Pertacula (ug/L) - TW         2022/01/10&lt;</mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl>	2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW		<mdl 1.0<="" td=""><td>100.00</td><td>No</td><td>No</td></mdl>	100.00	No	No
Dimethoate (ug/L) - TW	Diclofop-methyl (ug/L) - TW			9.00	No	No
Diquat (ug/L) - TW         2022/01/10 <mdl 5.0<="" th="">         70.00         No         No           Diuron (ug/L) - TW         2022/01/10         <mdl 10.0<="" td="">         150.00         No         No           Glyphosate (ug/L) - TW         2022/01/10         <mdl 10.0<="" td="">         280.00         No         No           Malathion (ug/L) - TW         2022/01/10         <mdl 0.5<="" td="">         190.00         No         No           2-Methyl-4-chlorophenoxyacetic Acid (MCPA) (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         100.00         No         No           Metolachlor (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         50.00         No         No           Metribuzin (ug/L) - TW         2022/01/10         <mdl 5.0<="" td="">         80.00         No         No           Monochlorobenzene (Chlorobenzene) (ug/L) - TW         2022/01/10         <mdl 5.0<="" td="">         80.00         No         No           Paraquat (ug/L) - TW         2022/01/10         <mdl 0.1<="" td="">         3.00         No         No           PCB (ug/L) - TW         2022/01/10         <mdl 0.1<="" td="">         3.00         No         No           Pentachlorophenol (ug/L) - TW         2022/01/10         <mdl 0.5<="" td="">         2.00         No         No           Pormetryne (ug/L) - TW         <td< td=""><td>Dimethoate (ug/L) - TW</td><td>2022/01/10</td><td><mdl 2.5<="" td=""><td></td><td>No</td><td>No</td></mdl></td></td<></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl>	Dimethoate (ug/L) - TW	2022/01/10	<mdl 2.5<="" td=""><td></td><td>No</td><td>No</td></mdl>		No	No
Diuron (ug/L) - TW         2022/01/10 <mdl 10.0<="" th="">         150.00         No         No           Glyphosate (ug/L) - TW         2022/01/10         <mdl 10.0<="" td="">         280.00         No         No           Malathion (ug/L) - TW         2022/01/10         <mdl 0.5<="" td="">         190.00         No         No           2-Methyl-4-chlorophenoxyacetic Acid (MCPA) (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         100.00         No         No           Metolachlor (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         50.00         No         No           Metribuzin (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         50.00         No         No           Monochlorobenzene (Chlorobenzene) (ug/L) - TW         2022/01/10         <mdl 0.5<="" td="">         80.00         No         No           Paraquat (ug/L) - TW         2022/01/10         <mdl 0.5<="" td="">         80.00         No         No           PCB (ug/L) - TW         2022/01/10         <mdl 0.5<="" td="">         80.00         No         No           Pentachlorophenol (ug/L) - TW         2022/01/10         <mdl 0.1<="" td="">         3.00         No         No           Pentachlorophenol (ug/L) - TW         2022/01/10         <mdl 0.5<="" td="">         2.00         No         No           Prometryne (ug/L) - TW</mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl>	Diquat (ug/L) - TW		+		No	No
Glyphosate (ug/L) - TW         2022/01/10 <mdl10.0< td="">         280.00         No         No           Malathion (ug/L) - TW         2022/01/10         <mdl 0.5<="" td="">         190.00         No         No           2-Methyl-4-chlorophenoxyacetic Acid (MCPA) (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         100.00         No         No           Metolachlor (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         50.00         No         No           Metribuzin (ug/L) - TW         2022/01/10         <mdl 5.0<="" td="">         80.00         No         No           Monochlorobenzene (Chlorobenzene) (ug/L) - TW         2022/01/10         <mdl 0.5<="" td="">         80.00         No         No           Paraquat (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         10.00         No         No           Pentachlorophenol (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         10.00         No         No           Pentachlorophenol (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         60.00         No         No           Pentachlorophenol (ug/L) - TW         2022/01/10         <mdl 0.5<="" td="">         2.00         No         No           Pentachlorophenol (ug/L) - TW         2022/01/10         <mdl 0.5<="" td="">         2.00         No         No           Simaz</mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl10.0<>	Diuron (ug/L) - TW		<mdl 10.0<="" td=""><td>150.00</td><td>No</td><td>No</td></mdl>	150.00	No	No
Malathion (ug/L) - TW       2022/01/10 <mdl 0.5<="" td="">       190.00       No       No         2-Methyl-4-chlorophenoxyacetic Acid (MCPA) (ug/L) - TW       2022/01/10       <mdl 1.0<="" td="">       100.00       No       No         Metolachlor (ug/L) - TW       2022/01/10       <mdl 1.0<="" td="">       50.00       No       No         Metribuzin (ug/L) - TW       2022/01/10       <mdl 5.0<="" td="">       80.00       No       No         Monochlorobenzene (Chlorobenzene) (ug/L) - TW       2022/01/10       <mdl 0.5<="" td="">       80.00       No       No         Paraquat (ug/L) - TW       2022/01/10       <mdl 1.0<="" td="">       10.00       No       No         PCB (ug/L) - TW       2022/01/10       <mdl 0.1<="" td="">       3.00       No       No         Pentachlorophenol (ug/L) - TW       2022/01/10       <mdl 1.0<="" td="">       60.00       No       No         Pentachlorophenol (ug/L) - TW       2022/01/10       <mdl 0.5<="" td="">       2.00       No       No         Pentachlorophenol (ug/L) - TW       2022/01/10       <mdl 0.5<="" td="">       2.00       No       No         Pentachlorophenol (ug/L) - TW       2022/01/10       <mdl 0.5<="" td="">       2.00       No       No         Simazine (ug/L) - TW       2022/01/10       <mdl 0.2<="" td="">       1.00       No       No     <td>Glyphosate (ug/L) - TW</td><td></td><td>+</td><td>280.00</td><td>No</td><td>No</td></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl>	Glyphosate (ug/L) - TW		+	280.00	No	No
2-Methyl-4-chlorophenoxyacetic Acid (MCPA) (ug/L) - TW	Malathion (ug/L) - TW		<mdl 0.5<="" td=""><td>190.00</td><td>No</td><td>No</td></mdl>	190.00	No	No
Metolachlor (ug/L) - TW         2022/01/10 <mdl 1.0<="" th="">         50.00         No         No           Metribuzin (ug/L) - TW         2022/01/10         <mdl 5.0<="" td="">         80.00         No         No           Monochlorobenzene (Chlorobenzene) (ug/L) - TW         2022/01/10         <mdl 0.5<="" td="">         80.00         No         No           Paraquat (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         10.00         No         No           PCB (ug/L) - TW         2022/01/10         <mdl 0.1<="" td="">         3.00         No         No           Pentachlorophenol (ug/L) - TW         2022/01/10         <mdl 0.1<="" td="">         3.00         No         No           Portacte (ug/L) - TW         2022/01/10         <mdl 0.5<="" td="">         2.00         No         No           Prometry (ug/L) - TW         2022/01/10         <mdl 0.5<="" td="">         2.00         No         No           Prometryne (ug/L) - TW         2022/01/10         <mdl 0.5<="" td="">         190.00         No         No           Prometryne (ug/L) - TW         2022/01/10         <mdl 0.25<="" td="">         1.00         No         No           Simazine (ug/L) - TW         2022/01/10         <mdl 0.2<="" td="">         1.00         No         No           Terbufos (ug/L) - TW         2022/01/10         <mdl 0.4<<="" td=""><td>2-Methyl-4-chlorophenoxyacetic Acid (MCPA) (ug/L) - TW</td><td></td><td></td><td></td><td>No</td><td>No</td></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl>	2-Methyl-4-chlorophenoxyacetic Acid (MCPA) (ug/L) - TW				No	No
Metribuzin (ug/L) - TW       2022/01/10 <mdl 5.0<="" td="">       80.00       No       No         Monochlorobenzene (Chlorobenzene) (ug/L) - TW       2022/01/10       <mdl 0.5<="" td="">       80.00       No       No         Paraquat (ug/L) - TW       2022/01/10       <mdl 1.0<="" td="">       10.00       No       No         PCB (ug/L) - TW       2022/01/10       <mdl 0.1<="" td="">       3.00       No       No         Pentachlorophenol (ug/L) - TW       2022/01/10       <mdl 0.1<="" td="">       3.00       No       No         Phorate (ug/L) - TW       2022/01/10       <mdl 0.5<="" td="">       2.00       No       No         Picloram (ug/L) - TW       2022/01/10       <mdl 0.5<="" td="">       2.00       No       No         Prometryne (ug/L) - TW       2022/01/10       <mdl 0.5<="" td="">       2.00       No       No         Prometryne (ug/L) - TW       2022/01/10       <mdl 0.5<="" td="">       190.00       No       No         Prometryne (ug/L) - TW       2022/01/10       <mdl 0.5<="" td="">       1.00       No       No         Simazine (ug/L) - TW       2022/01/10       <mdl 0.2<="" td="">       1.00       No       No         Terbufos (ug/L) - TW       2022/01/10       <mdl 0.4<="" td="">       1.00       No       No         Trichlorophenol (ug/L) - TW       <td< td=""><td>Metolachlor (ug/L) - TW</td><td></td><td><mdl 1.0<="" td=""><td>50.00</td><td>No</td><td>No</td></mdl></td></td<></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl>	Metolachlor (ug/L) - TW		<mdl 1.0<="" td=""><td>50.00</td><td>No</td><td>No</td></mdl>	50.00	No	No
Paraquat (ug/L) - TW         2022/01/10 <mdl 1.0<="" th="">         10.00         No         No           PCB (ug/L) - TW         2022/01/10         <mdl 0.1<="" td="">         3.00         No         No           Pentachlorophenol (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         60.00         No         No           Phorate (ug/L) - TW         2022/01/10         <mdl 0.5<="" td="">         2.00         No         No           Picloram (ug/L) - TW         2022/01/10         <mdl 5.0<="" td="">         190.00         No         No           Prometryne (ug/L) - TW         2022/01/10         <mdl 0.25<="" td="">         1.00         No         No           Prometryne (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         10.00         No         No           Prometryne (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         10.00         No         No           Simazine (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         10.00         No         No           Terbufos (ug/L) - TW         2022/01/10         <mdl 0.4<="" td="">         1.00         No         No           Triallate (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         10.00         No         No           Trifluralin (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         5.00<!--</td--><td>Metribuzin (ug/L) - TW</td><td></td><td><mdl 5.0<="" td=""><td>80.00</td><td>No</td><td>No</td></mdl></td></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl>	Metribuzin (ug/L) - TW		<mdl 5.0<="" td=""><td>80.00</td><td>No</td><td>No</td></mdl>	80.00	No	No
Paraquat (ug/L) - TW         2022/01/10 <mdl 1.0<="" td="">         10.00         No         No           PCB (ug/L) - TW         2022/01/10         <mdl 0.1<="" td="">         3.00         No         No           Pentachlorophenol (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         60.00         No         No           Phorate (ug/L) - TW         2022/01/10         <mdl 0.5<="" td="">         2.00         No         No           Picloram (ug/L) - TW         2022/01/10         <mdl 5.0<="" td="">         190.00         No         No           Prometryne (ug/L) - TW         2022/01/10         <mdl 0.25<="" td="">         1.00         No         No           Simazine (ug/L) - TW         2022/01/10         <mdl 0.4<="" td="">         1.00         No         No           Terbufos (ug/L) - TW         2022/01/10         <mdl 0.4<="" td="">         1.00         No         No           Tertrachloroethylene (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         10.00         No         No           Trichloroethylene (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         5.00         No         No           Trifluralin (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         5.00         No         No           Trifluralin (ug/L) - TW         2022/01/10         <mdl 0.7<="" td=""></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl>	Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2022/01/10	<mdl 0.5<="" td=""><td>80.00</td><td>No</td><td>No</td></mdl>	80.00	No	No
Pentachlorophenol (ug/L) - TW         2022/01/10 <mdl 1.0<="" th="">         60.00         No         No           Phorate (ug/L) - TW         2022/01/10         <mdl 0.5<="" td="">         2.00         No         No           Picloram (ug/L) - TW         2022/01/10         <mdl 5.0<="" td="">         190.00         No         No           Prometryne (ug/L) - TW         2022/01/10         <mdl 0.25<="" td="">         1.00         No         No           Simazine (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         10.00         No         No           Terbufos (ug/L) - TW         2022/01/10         <mdl 0.4<="" td="">         1.00         No         No           Tetrachloroethylene (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         10.00         No         No           2,3,4,6-Tetrachlorophenol (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         100.00         No         No           Trichloroethylene (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         5.00         No         No           2,4,6-Trichlorophenol (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         5.00         No         No           Trifluralin (ug/L) - TW         2022/01/10         <mdl 0.7<="" td="">         5.00         No         No           Vinyl Chloride (ug/L) - TW         2022/</mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl>	Paraquat (ug/L) - TW	2022/01/10	<mdl 1.0<="" td=""><td>10.00</td><td>No</td><td>No</td></mdl>	10.00	No	No
Phorate (ug/L) - TW         2022/01/10 <mdl 0.5<="" th="">         2.00         No         No           Picloram (ug/L) - TW         2022/01/10         <mdl 5.0<="" td="">         190.00         No         No           Prometryne (ug/L) - TW         2022/01/10         <mdl 0.25<="" td="">         1.00         No         No           Simazine (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         10.00         No         No           Terbufos (ug/L) - TW         2022/01/10         <mdl 0.4<="" td="">         1.00         No         No           Tetrachloroethylene (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         10.00         No         No           2,3,4,6-Tetrachlorophenol (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         100.00         No         No           Trichloroethylene (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         230.00         No         No           2,4,6-Trichlorophenol (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         5.00         No         No           Trifluralin (ug/L) - TW         2022/01/10         <mdl 0.7<="" td="">         5.00         No         No           Vinyl Chloride (ug/L) - TW         2022/01/10         <mdl 0.2<="" td="">         1.00         No         No           Distribution Water         Trihalomethane:</mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl>	PCB (ug/L) - TW	2022/01/10	<mdl 0.1<="" td=""><td>3.00</td><td>No</td><td>No</td></mdl>	3.00	No	No
Picloram (ug/L) - TW         2022/01/10 <mdl 5.0<="" th="">         190.00         No         No           Prometryne (ug/L) - TW         2022/01/10         <mdl 0.25<="" td="">         1.00         No         No           Simazine (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         10.00         No         No           Terbufos (ug/L) - TW         2022/01/10         <mdl 0.4<="" td="">         1.00         No         No           Tetrachloroethylene (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         10.00         No         No           2,3,4,6-Tetrachlorophenol (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         100.00         No         No           Trichloroethylene (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         5.00         No         No           2,4,6-Trichlorophenol (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         5.00         No         No           Trifluralin (ug/L) - TW         2022/01/10         <mdl 0.7<="" td="">         5.00         No         No           Vinyl Chloride (ug/L) - TW         2022/01/10         <mdl 0.2<="" td="">         1.00         No         No           Distribution Water         Trihalomethane: Total (ug/L) Annual Average - DW         2022         80.9         100.00         No         Yes</mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl>	Pentachlorophenol (ug/L) - TW	2022/01/10	<mdl 1.0<="" td=""><td>60.00</td><td>No</td><td>No</td></mdl>	60.00	No	No
Prometryne (ug/L) - TW         2022/01/10 <mdl 0.25<="" th="">         1.00         No         No           Simazine (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         10.00         No         No           Terbufos (ug/L) - TW         2022/01/10         <mdl 0.4<="" td="">         1.00         No         No           Tetrachloroethylene (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         10.00         No         No           2,3,4,6-Tetrachlorophenol (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         100.00         No         No           Trichloroethylene (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         230.00         No         No           2,4,6-Trichlorophenol (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         5.00         No         No           Trifluralin (ug/L) - TW         2022/01/10         <mdl 0.7<="" td="">         5.00         No         No           Vinyl Chloride (ug/L) - TW         2022/01/10         <mdl 0.2<="" td="">         1.00         No         No           Distribution Water         2022         80.9         100.00         No         Yes</mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl>	Phorate (ug/L) - TW	2022/01/10	<mdl 0.5<="" td=""><td>2.00</td><td>No</td><td>No</td></mdl>	2.00	No	No
Simazine (ug/L) - TW         2022/01/10 <mdl 1.0<="" th="">         10.00         No         No           Terbufos (ug/L) - TW         2022/01/10         <mdl 0.4<="" td="">         1.00         No         No           Tetrachloroethylene (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         10.00         No         No           2,3,4,6-Tetrachlorophenol (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         100.00         No         No           Trichloroethylene (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         5.00         No         No           2,4,6-Trichlorophenol (ug/L) - TW         2022/01/10         <mdl 0.7<="" td="">         5.00         No         No           Trifluralin (ug/L) - TW         2022/01/10         <mdl 0.7<="" td="">         5.00         No         No           Vinyl Chloride (ug/L) - TW         2022/01/10         <mdl 0.2<="" td="">         1.00         No         No           Distribution Water         2022         80.9         100.00         No         Yes</mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl>	Picloram (ug/L) - TW	2022/01/10	<mdl 5.0<="" td=""><td>190.00</td><td>No</td><td>No</td></mdl>	190.00	No	No
Terbufos (ug/L) - TW         2022/01/10 <mdl 0.4<="" th="">         1.00         No         No           Tetrachloroethylene (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         10.00         No         No           2,3,4,6-Tetrachlorophenol (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         100.00         No         No           Triallate (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         230.00         No         No           Trichloroethylene (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         5.00         No         No           2,4,6-Trichlorophenol (ug/L) - TW         2022/01/10         <mdl 0.7<="" td="">         5.00         No         No           Trifluralin (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         45.00         No         No           Vinyl Chloride (ug/L) - TW         2022/01/10         <mdl 0.2<="" td="">         1.00         No         No           Distribution Water         2022         80.9         100.00         No         Yes</mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl>	Prometryne (ug/L) - TW	2022/01/10	<mdl 0.25<="" td=""><td>1.00</td><td>No</td><td>No</td></mdl>	1.00	No	No
Tetrachloroethylene (ug/L) - TW         2022/01/10 <mdl 0.3<="" th="">         10.00         No         No           2,3,4,6-Tetrachlorophenol (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         100.00         No         No           Triallate (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         230.00         No         No           Trichloroethylene (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         5.00         No         No           2,4,6-Trichlorophenol (ug/L) - TW         2022/01/10         <mdl 0.7<="" td="">         5.00         No         No           Trifluralin (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         45.00         No         No           Vinyl Chloride (ug/L) - TW         2022/01/10         <mdl 0.2<="" td="">         1.00         No         No           Distribution Water         Trihalomethane: Total (ug/L) Annual Average - DW         2022         80.9         100.00         No         Yes</mdl></mdl></mdl></mdl></mdl></mdl></mdl>	Simazine (ug/L) - TW	2022/01/10	<mdl 1.0<="" td=""><td>10.00</td><td>No</td><td>No</td></mdl>	10.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW       2022/01/10 <mdl 1.0<="" td="">       100.00       No       No         Triallate (ug/L) - TW       2022/01/10       <mdl 1.0<="" td="">       230.00       No       No         Trichloroethylene (ug/L) - TW       2022/01/10       <mdl 0.3<="" td="">       5.00       No       No         2,4,6-Trichlorophenol (ug/L) - TW       2022/01/10       <mdl 0.7<="" td="">       5.00       No       No         Trifluralin (ug/L) - TW       2022/01/10       <mdl 1.0<="" td="">       45.00       No       No         Vinyl Chloride (ug/L) - TW       2022/01/10       <mdl 0.2<="" td="">       1.00       No       No         Distribution Water       2022       80.9       100.00       No       Yes</mdl></mdl></mdl></mdl></mdl></mdl>	Terbufos (ug/L) - TW	2022/01/10	<mdl 0.4<="" td=""><td>1.00</td><td>No</td><td>No</td></mdl>	1.00	No	No
Triallate (ug/L) - TW         2022/01/10 <mdl 1.0<="" th="">         230.00         No         No           Trichloroethylene (ug/L) - TW         2022/01/10         <mdl 0.3<="" td="">         5.00         No         No           2,4,6-Trichlorophenol (ug/L) - TW         2022/01/10         <mdl 0.7<="" td="">         5.00         No         No           Trifluralin (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         45.00         No         No           Vinyl Chloride (ug/L) - TW         2022/01/10         <mdl 0.2<="" td="">         1.00         No         No           Distribution Water         Trihalomethane: Total (ug/L) Annual Average - DW         2022         80.9         100.00         No         Yes</mdl></mdl></mdl></mdl></mdl>	Tetrachloroethylene (ug/L) - TW	2022/01/10	<mdl 0.3<="" td=""><td>10.00</td><td>No</td><td>No</td></mdl>	10.00	No	No
Trichloroethylene (ug/L) - TW         2022/01/10 <mdl 0.3<="" td="">         5.00         No         No           2,4,6-Trichlorophenol (ug/L) - TW         2022/01/10         <mdl 0.7<="" td="">         5.00         No         No           Trifluralin (ug/L) - TW         2022/01/10         <mdl 1.0<="" td="">         45.00         No         No           Vinyl Chloride (ug/L) - TW         2022/01/10         <mdl 0.2<="" td="">         1.00         No         No           Distribution Water         Trihalomethane: Total (ug/L) Annual Average - DW         2022         80.9         100.00         No         Yes</mdl></mdl></mdl></mdl>	2,3,4,6-Tetrachlorophenol (ug/L) - TW	2022/01/10	<mdl 1.0<="" td=""><td>100.00</td><td>No</td><td>No</td></mdl>	100.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW       2022/01/10 <mdl 0.7<="" td="">       5.00       No       No         Trifluralin (ug/L) - TW       2022/01/10       <mdl 1.0<="" td="">       45.00       No       No         Vinyl Chloride (ug/L) - TW       2022/01/10       <mdl 0.2<="" td="">       1.00       No       No         Distribution Water       Trihalomethane: Total (ug/L) Annual Average - DW       2022       80.9       100.00       No       Yes</mdl></mdl></mdl>	Triallate (ug/L) - TW	2022/01/10	<mdl 1.0<="" td=""><td>230.00</td><td>No</td><td>No</td></mdl>	230.00	No	No
Trifluralin (ug/L) - TW         2022/01/10 <mdl 1.0<="" td="">         45.00         No         No           Vinyl Chloride (ug/L) - TW         2022/01/10         <mdl 0.2<="" td="">         1.00         No         No           Distribution Water         Trihalomethane: Total (ug/L) Annual Average - DW         2022         80.9         100.00         No         Yes</mdl></mdl>	Trichloroethylene (ug/L) - TW	2022/01/10	<mdl 0.3<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
Vinyl Chloride (ug/L) - TW         2022/01/10         < MDL 0.2         1.00         No         No           Distribution Water         Trihalomethane: Total (ug/L) Annual Average - DW         2022         80.9         100.00         No         Yes	2,4,6-Trichlorophenol (ug/L) - TW	2022/01/10	<mdl 0.7<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
Vinyl Chloride (ug/L) - TW         2022/01/10         < MDL 0.2         1.00         No         No           Distribution Water         Trihalomethane: Total (ug/L) Annual Average - DW         2022         80.9         100.00         No         Yes	Trifluralin (ug/L) - TW	2022/01/10	<mdl 1.0<="" td=""><td>45.00</td><td>No</td><td>No</td></mdl>	45.00	No	No
Distribution Water     2022     80.9     100.00     No     Yes	Vinyl Chloride (ug/L) - TW		<mdl 0.2<="" td=""><td>1.00</td><td>No</td><td>No</td></mdl>	1.00	No	No
	Distribution Water					
HAA: Total (ug/L) Annual Average - DW 2022 84.7 80.0 Yes Yes	Trihalomethane: Total (ug/L) Annual Average - DW	2022	80.9	100.00	No	Yes
	HAA: Total (ug/L) Annual Average - DW	2022	84.7	80.0	Yes	Yes

MAC = Maximum Allowable Concentration, as per O. Reg. 169/03

<sup>\*</sup>BDL = Below the laboratory detection level

#### **Additional Legislated Samples**

Legislation	Sample	Parameter	Date	Sample Result	Total Chlorine Residual
				(mg/L)	(mg/L)
MDWL	Backwash	Total	January	< 2	0.04
	Effluent	Suspended	February	< 2	0.03
		Solids - TSS	March	2	0.04
			April	7	0.04
			May	< 2	0.05
			*June	10	0.06
			July	**NS	NS
			August	NS	NS
			September	NS	NS
			October	NS	NS
			November	NS	NS
			December	NS	NS
			Annual	< 4.2	0.04
***	1 15 1 750		Average	(MAC=25)	(MAC=0.02)

<sup>\*</sup>The renewed MDWL called for the TSS to be sampled monthly starting in June 2021 and sample for total chlorine residual, for the mentioned annual averages (June 2021 – June 2022).

## **Major Maintenance Summary (Capital)**

WO #	Description
2723890	Replacement of the LED street lights at the water plant.
3145139	Compressor maintenance, part of warranty work, and training for operators for future maintenance activities.
2723884	Painting supplies, oil filter for valve turner, change curb stop at 1 Doran Road, bushings, seal bearings and couplings, exhaust fan motor, voltmeter, probe, Stabl Cal Calibration set, and other supplies.
2823648	Electrical installation of a new air compressor at the plant and the relocation of the current, as a spare.
2824647	Air stroke actuators required as spare parts for the Trac-Vac system.
2923354	Painting supplies, hour meter, electrical supplies, compressor maintenance, keys, batteries for generators, PVC cement, seal-bearing assembly, submersible pump, colorimeter, and other miscellaneous hardware.
2967742	New chlorine analyzers for the free chlorine on the final treated water and filter effluent.
2637702	Electrical repair work completed at the water plant.
3062392	Installation of a new gas-fired hot water tank.

<sup>\*\*</sup>NS – Not Sampled – OCWA decided to have the supernatant from the backwash tanks be discharged to the sewage pumping station on-site at the water plant, that is then conveyed through the sewage collection system to the wastewater treatment plant, until a permanent alternative is installed. Therefore, monthly sampling of the TSS and total chlorine were not needed (approved by MECP).

Issued: 27-Feb-2023

Rev. 1

#### Date Details Three (3) Community Complaints: Zachary Street – strong chlorine taste & smell; Jan 2022 Hilda Street – frozen water line; Isabel Street – frozen water line. Fire Hydrant Flushing – dead ends & maintenance. Feb 2022 Fire Hydrant Flushing – dead ends & line maintenance. Three (3) Community Complaints: Petawawa Blvd. – frozen water line – installed temporary water line to home; East Street – low water pressure – faucet problem; Mar 2022 Armstrong Road – frozen water line. Fire Hydrant Flushing – dead ends & line maintenance. One (1) Community Complaint: Petawawa Blvd. – low water pressure. One (1) Water main break – Hilda Street. Apr 2022 Temporary water line on Petawawa Blvd. was disconnected (Mar 4 – Apr 19). GPS fire hydrants and entered data into Access dB. Annual spring hydrant checks and flushing commenced. Two (2) Water main breaks – Audrey Street & Albert Street. Annual hydrant inspections and water main flushing continued. May 2022 Three (3) Water and Wastewater lateral inspections. Numerous activities pertaining to various construction projects in town. Bacti sampling and water main flushing on new water main at the end of Wilson Avenue. Hydrant repairs and greasing. Jun 2022 Four (4) Water and Wastewater lateral inspections. Continued with numerous activities pertaining to various construction projects in Hydrant repairs in preparation for hydrant painting, scheduled in August. Jul 2022 Continued with numerous activities pertaining to various construction projects in Two hundred & Fifty (250) hydrants descaled and painted by contractor throughout the town. Aug 2022 Continued with numerous activities pertaining to various construction projects in One (1) Community Complaint – Viking Road – no water flow to home. Numbering of newly painted fire hydrants. Repaired broken fire hydrant at 3225 Petawawa Blvd. Sept 2022 Dead end hydrant flushing. Repaired curb stop valve box at 66 John Street. Continued with numerous activities pertaining to various construction projects in town. Numbering of newly painted fire hydrants and dead end flushing of hydrants. Continued with numerous activities pertaining to various construction projects in Oct 2022 Dead end hydrant flushing completed. Nov 2022 Continued with numerous activities pertaining to various construction projects in town. Numbering of newly painted fire hydrants. Inspected broken hydrant (#359) at 80 Laurentian Drive and ordered parts to repair. Dec 2022 Continued with numerous activities pertaining to various construction projects in

town.

# **Appendix A**

**WTRS Data and Submission Confirmation** 



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: 3814-9J2RQN

Permit Holder: THE CORPORATION OF THE TOWN OF PETAWAWA.

Received on: Feb 23, 2023 8:02 AM

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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version: v4.5.0.21 (build#: 22) Last modified: 2018/09/18



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