

Drinking-Water System Number:	220000460
Drinking-Water System Name:	North Bay Water Drinking Water System
Drinking-Water System Owner:	The Corporation of the City of North Bay
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2024 to December 31, 2024

Complete if your Category is Large Municipal Residential or Small Municipal Residential								
Does your Drinking-Water System serve more than 10,000 people? Yes [X] No []								
Is your annual report available to the public at no charge on a web site on the Internet?  Yes [ X] No [ ]								
Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.								
The Corporation of the City of North Bay P.O. Box 360								
200 McInture Street Fast								

Complete for all other Categories.						
Number of Designated Facilities served:						
Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]						
Number of Interested Authorities you						
report to:						
Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?  Yes [ ] No [ ]						

Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
N/A	

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?

Yes [ ] No [ ]

Indicate how you notified system users that your annual report is available and is free of charge.

- [X] Public access/notice via the web
- [X] Public access/notice via a newspaper

North Bay, ON P1B 8H8



**Describe your Drinking-Water System** 

The City of North Bay water treatment plant (WTP), water distribution facilities and water distribution piping system are owned and operated by the Corporation of the City of North Bay.

The City of North Bay Water Treatment System is classified as a "Large Municipal Residential" Drinking-Water System, Class 3 Water Treatment Plant and Class 4 Water Distribution System with the Drinking-Water System Number: 220000460. The WTP is located at 248 Lakeside Drive in North Bay and treats water from Trout Lake which is part of the Mattawa River watershed. The WTP services a population of approximately 54,000, the permit to take water permits water consumption up to 79,500 cubic meters per day.

The water distribution facilities consist of the following:

Ellendale Reservoir, High lift Pump Station & Re-chlorination Facility;

CFB Standpipe;

**Canadore Pumping Station;** 

**Cedar Heights Booster pumping station;** 

Judge Avenue Valve Chamber;

Birches Road Standpipe and Re-chlorination Station; and

Airport Road Standpipe, Booster Pumping Station and Re-chlorination Facility.

Larocque Rd. Standpipe

The membrane filtration water treatment plant has the design capacity of 79,500 cubic meters per day. The plant is a SCADA controlled membrane filtration system with ultraviolet and chlorine disinfection. The plant also doses fluoride, caustic for pH adjustment and Control Max for corrosion control prior to delivery to the distribution system.

The membrane filtration plant meets the Ontario Drinking Water Standards requirements for the removal/disinfection of 3-log Giardia Lambia, 2-log Cryptosporidium and 4-log Viruses. The membrane filtration Primary Barrier provides a 3- log Giardia removal, 2-log Cryptosporidium removal. The chlorine/UV disinfection Secondary Barrier provides for a 0.5 Giardia removal, 0.5-log Cryptosporidium removal and with chlorine addition gives a 4- log virus removal.

In general the North Bay WTP can be described as follows:

#### Intake

A 1200mm diameter 45 series polyethylene intake pipe, with a capacity of 80,000 cubic meters per day. The pipe, constructed in 1973, extends approximately 300 meters into Delaney Bay of Trout Lake and includes an intake structure consisting of a steel inlet bell mouth with fiber reinforced plastic (FRP) cage and is in approximately 21.5 meters of water at low water level.

#### Membrane Feed Pump Well/Prescreening

Two (2) parallel sub-surface well chambers with level monitoring containing, two (2) 6mm mesh manual prescreen in series, five (5) vertical turbine pumps (4 duty and one standby) each rated at 20 ML/d feeding the primary membrane system.

#### **Membrane Feed Strainers**

Five (5) 300 micron automatic membranes feed strainers (four duties and one standby).



#### **Treatment Plant Process Areas**

A building housing the following process components:

- Primary and secondary membrane filtration system;
- Primary and secondary UV disinfection system;
- Two (2) chlorine contact tanks;
- split high lift pump well
- three (3) chemical storage and delivery rooms housing membrane cleaning and neutralization chemical systems, pre-chlorination system, primary disinfection chemical system, secondary chlorination chemical system, pH adjustment system, fluoride and corrosion control addition system. Also includes;
  - High lift pumping room;
  - Generator room;
  - Electrical room.
  - Compressor/blower room

#### **Administration Area**

Two floor administrative area including laboratory/control room, server room, multipurpose training room, offices, washrooms, women's and men's locker rooms, janitor room, building mechanical room and storage room.

#### **Membrane Filtration**

Eleven (11) pressurized primary membrane racks treating water from the membrane feed strainers, two(2) pressurized secondary membrane racks treating non-chemical backwash water from the primary membrane racks. The primary racks have a maximum production flow rate of 78.7 MLD based on raw water flow rate of 79.5 MLD, Ancillary systems including backwash pumps, instrument air for operating valves and integrity testing membranes, process blowers, and chemical cleaning and neutralization systems.

#### **UV Disinfection Systems**

Three (3) 600mm primary UV reactors (two duty and one standby) treating water from the eleven (11) pressurized primary membrane racks and two (2) secondary membrane racks. Two dedicated UV reactors for secondary membrane racks up stream of primary UV reactors. Each reactor contains medium pressure high intensity lamps housed in quartz sleeves; units equipped with self-cleaning mechanism and intensity sensors.

#### **Chemical systems for:**

Primary disinfection
Secondary (residual) disinfection
Fluoride Dosing
pH Adjustment
Corrosion Control
Membrane cleaning
Membrane cleaning solutions neutralization



#### Chlorine Contact Tank #1 and #2

Two (2) baffled chlorine contact tanks in series with capacities of 688 cubic meters in (tank #1) and 502 cubic meters (tank #2).

#### High Lift Pump Well #1 and #2

High lift pump well #1 has a capacity of approximately 240 cubic meters and is equipped with one (1) variable speed and two (2) constant speed vertical turbine high lift pumps each rated at 20 MLD. High lift pump well #2 has a capacity of approximately 240 cubic meters and is equipped with one (1) variable speed and one (1) constant speed vertical turbine high lift pump each rated at 20 MLD.

#### **Generator Room**

One (1) dual fuel generator set (NG/Diesel) with a rating of 2050KW, to provide power during peak hours and emergency situations.

#### **Wastewater Disposal System**

**Primary Membrane Backwash Tank** 

Tank with a volume of approximately 310 cubic meters,

Two (2) membranes feed pumps supplying water to the Secondary Membrane System.

#### **Secondary Waste Tank**

Tank with a volume of approximately 130 cubic meters,

Two (2) pumps, one duty and one standby, to deliver water to the sanitary sewer.

#### Neutralization Tank #1 and #2

Two (2) tanks each with a volume of 150 cubic meters, pH and Chlorine Residual analyzers. Designed to dechlorinate and adjust pH to suitable levels for wastewater plant.

#### **Sanitary Sewage Disposal**

One sump with two (2) submersible pumps in the Administration Area and two (2) sumps and two (2) submersible pumps in the Process Area discharging to the sanitary sewer along Lakeside Drive

The treated water is pumped to the distribution system.

The water distribution facilities can be described as follows:

#### Ellendale Reservoir High lift Pumping Station and Re-chlorination Facility

The facility is a reinforced concrete at-grade, double cell, un-baffled, treated water reservoir, located at



the east end of Ellendale Drive. The reservoir has an approximate capacity of 18,200 cubic meters, with dimensions of 71 meters by 38 meters by 7 meters. The facility is equipped with a sodium hypochlorite re-chlorination system, on-line continuous water quality analyzer for free chlorine residual monitoring. A 500KW. 346/600V standby diesel generator is available to operate the facility during power outages.

#### Birch's Road Standpipe and Re-chlorination Station

The facility consists of one (1) 39 meter high, 19 meter diameter, 11,775 cubic meter capacity with a hydrostatic mixing system, the steel standpipe is located near the southwest corner of Birch's Road and Booth Road. The facility is equipped with a sodium hypochlorite re-chlorination system and on-line continuous water quality analyzer for free chlorine. A fixed 7.5kW, 120/240 Volt single phase diesel powered generator to power the re-chlorination and SCADA communications during prolonged power outages.

#### Larocque Rd. Standpipe

The facility consists of one (1) 22 meter high, 15meter diameter, and 4,000 cubic meter capacity glass fused to steel standpipe with a hydrostatic mixing system. The standpipe is located at the North end of the city on Larocque Rd. to provide water pressure to future development, along with the Canadore College and Nippissing University. There is a 10KW, 120/240V backup generator to maintain communication and SCADA controls during power outages.

#### **Judge Avenue Valve Chamber**

The facility consists of two (2) valves and chlorine analyzer designated as the distribution residual compliance point. The station is located near the northeast corner of Judge Avenue and Lakeshore Drive. The facility is equipped with a fixed 7.5kW 120/240 Volt single phase, diesel powered generator to power the valve and SCADA communications during prolonged power outages. Valve control for pressure or tower level integrated with Birches Standpipe. The equipment for a re-chlorination station is located at the facility however not currently in use.

#### **CFB Standpipe**

The standpipe is a glass fused to steel un-baffled tank with an electric mixer inside, it is located on the Airport Standpipe property and shares all the buildings resources such as the PLC and standby generator. This Standpipe has a volume of 2,280m3 and supplies water to zone 3 and the Airport Standpipe. The piping at this facility allows this standpipe to also supply water for zone 5 during emergencies and maintenance activities.

#### **Canadore Pumping Station**

The facility is equipped with two (2) PRV's, one (1) six inch and one (1) two inch which are responsible for providing water from zone 2 into zone 1. This helps with water age in Laroque standpipe and provides extra fire flow water available to the lower zone.



#### **Cedar Heights Booster Station**

This Facility is equipped with two (2) 100 hp high lift pumps responsible for filling the Larocque Rd. Standpipe with a pressurized cushion tank to protect pressure surges in the grid. There is an on-line continuous water quality analyzer to monitor free chlorine residual and a 357kW, 347/600 Volt, 3 phase diesel generator to provide equipment power and SCADA communications during prolonged power outages.

#### **Airport Standpipe, Booster Pumping Station**

This 4,000 cubic meter water storage standpipe, booster pumping station and re-chlorination facility was constructed in 2009. With the standpipe, high lift pumps, pressurized cushion tanks and a 500kW back-up diesel generator. This system consists of a standpipe and a series of pumps to facilitate filling of the standpipe and providing pressure to the Airport Rd. and Carmichael Dr. area (Zone 5). Filling the standpipe utilizes three booster pumps (2 duty and 1 standby). The standpipe provides suction pressure for four booster pumps (3 duties and 1 standby) and two fire pumps to provide pressure for Zone 5. Zone 5 is equipped with four (4) pneumatic tanks to mitigate minor pressure fluctuations within the distribution system, and to provide some volume of available storage during power interruptions while the standby power system engages.

#### List all water treatment chemicals used over this reporting period

Sodium Hydroxide Sodium Hypochlorite HydroFluorosilicic Acid Control Max

#### Were any significant expenses incurred to?

- [X] Install required equipment
- [X] Repair required equipment
- [X] Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred treatment and distribution of water to Major repair and replacement to ensure reliable the water system.

#### The major capital repairs and replacements include:

- Replaced multiple chemical dosing pumps on chlorination system at the water treatment plant.
- Upgraded Air reliefs on multiple filter rack runs to correct air issues.
- Rebuilt CIP pump for rack maintenance cleaning.
- Repaired multiple Turbidity analyzers which were causing issues.
- Replaced two water level sensors on UV#1 and UV#2, long term issue causing units to shut down frequently.
- Replaced multiple electronic ballasts in UV units as they failed.
- Replaced multiple defective valves and actuators on filter racks.
- Repaired HVAC system for the water treatment plant.
- Hired an engineer consultant to design a chlorination system for Cedar Heights.



- Engineer Consultant was hired to design a plan to phase in our new filter rack modules as ours are theoretically near the end of life.
- Rebuilt motor for High lift pump #4 after dead short in stator.
- Installation of 205 m of 300mm watermain on McKeown St. from One Kids Place to McNamara St.
- Installation of 215m of 200mm water main on Bond St. between Kirkpatrick St. to abandoned Railway
- Replaced 51m of 150mm watermain on Wickstead Ave. looping into 200mm watermain on Sage Rd. along with three new isolation valves.
- Relined 362m of 250mm water main on Trout Lake Rd. from Giroux St. to Connaught Ave.
- Relined 232m of 600mm water main on Giroux St. to south side of Trout Lake Rd.
- Relined 293.5m of 400mm water main in Lee Park under the overpass on Lakeshore Dr. to Veterans Soccer Field.
- ROV inspection of Airport standpipe was conducted to inspect the internal shape of the tank.

Incident	Parameter	Result	Unit	Corrective Action	Corrective
Date			of		Action
			Meas		Date
			ure		
April 3,	Overgrowth on	Plate	CFU/	A bacteria sample from 170 6th Ave.	April 4,
2024	plate for Total	Overgrown	100ml	W collected on April 3, 2024 had an	2024
	Coliform and E-			overgrowth on the plate testing for	
	coli test from			Total Coliform and E-Coli. Lab	
	bacterial			reported the bacterial adverse on	
	sample.			April 4, 2024 and city reported to	
				SAC and MOH along with flushing	
				and re-sampling as required by	
				regulations. AWQI# 164743	
May 16,	Missed Lead	N/A	mg/L	The contracted lab missed one	May 17,
2024	Sample			residential sample required by	2024
				regulation before deadline of April	
				15. Notified MECP local Inspector of	
				incident of non-compliance.	
October	Free Chlorine	0.00	mg/L	Chlorine sample taken from 110 Rita	October 9,
9, 2024	Residual below			Rd. getting a 0.00mg/L free chlorine	2024
	0.05mg/L			residual, reported to SAC and MOH	
				as per regulation. Flushed the water	
				main to restore residual and bacterial	
				sample collected. AWQI # 166610	
October	Lead	0.0118	mg/L	Sample from plumbing at 408	October
11, 2024	Exceedance		_	Aberdeen Ave. resulted in a lead	18, 2024
	Plumbing			exceedance of 0.0118 mg/L. Reported	
				to MOH and MECP as per	



Incident	Parameter	Result	Unit	Corrective Action	Corrective
Date			of		Action
			Meas		Date
			ure		
				regulations on October 18, 2024.	
				Results sent to homeowner through	
October	Euro Chlorino	0.02	~/T	registered mail	Ostobor
	Free Chlorine	0.03	mg/L	Chlorine sample taken from 73	October
28, 2024	Residual below			Campbell Ave. getting a 0.03mg/L	28, 2024
	0.05mg/L			free chlorine residual, reported to	
				SAC and MOH as per regulation.	
				Flushed the water main to restore	
				residual and bacterial sample	
				collected. This sample was taken post	
				water filter and would not represent	
				our distribution system, reporting out	
				of precaution. AWQI # 166766	

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre



Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	Number of Samples	Range of E.coli (#)-(#)	Range of Total Coliform Results (#)-(#)	Number of samples Background Colony Counts	Range of Back- ground Colony Counts	Number of HPC Samples	Range of HPC Results (#)-(#)
Raw	53	0 - OG	3 - OG	53	9 ->200	N/A	N/A
Treated	53	0 - 0	0 - 0	53	0 - 0	53	0 - 4
Distribution Fixed Sites	371	0 - 0	0 - 0	371	0 - 0	106	0 - 4
Distribution Random Sites	530	0 - 0	0 - 0	530	0 - 11	159	0 - 49

<sup>\*\*</sup> One Sample had Overgrown Plate for bacterial sample on April 3, 2024 but not part of the 530 samples taken weekly AWQI#164743\*\*

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

POE Grab	Number of	Range of Results	ODWQS/Operational
Samples	Grab Samples	(min #)-(max #)	Requirement
Turbidity	240	0.042 – 0.782 NTU	1.0 NTU max
Chlorine	296	1.04 – 1.63 mg/L	0.05 mg/L min.
Fluoride (If the DWS provides	222	0.55 - 0.89  mg/L	1.5 mg/L max
fluoridation)			

Distribution Free Chlorine Grab Samples	Number of Grab Samples	Range of Results (min #)-(max #)	ODWQS Requirement
<b>Chlorine</b> Fixed Sites	3283	0.27 – 3.49 mg/L	0.05mg/L min.
Chlorine Random Sites	530	0.15 - 1.27 mg/L	0.05 mg/L min.

\*One sample taken October 9, 2024 getting a residual of 0.00 mg/L due to low water usage and was not part of regular 530 samples\*

POE on-line	Number of	Range of Results	ODWQS/Operational
Continuous	Grab	(min #)-(max #)	Requirement
Analyzers	Samples		
Turbidity	8760	0.004 - 0.995 NTU	5.0 NTU max
Chlorine	8760	0.91 – 2.30 mg/L	0.05 mg/L min.
Fluoride (If the	8760	0.0 - 1.10  mg/L	1.5 mg/L max
DWS provides			
fluoridation)			



#### Summary of Inorganic parameters tested during this reporting period or the most recent sample results

,	•	Result Value		
Parameter	Sample Date		Unit of	Exceedance
			Measure	
Antimony	15 Jul 24	<0.0001	mg/L	no
Arsenic	15 Jul 24	0.0001	mg/L	no
Barium	15 Jul 24	0.011	mg/L	no
Boron	15 Jul 24	< 0.005	mg/L	no
Cadmium	15 Jul 24	<0.000015	mg/L	no
Chromium	15 Jul 24	<0.0010	mg/L	no
Mercury	15 Jul 24	< 0.00002	mg/L	no
Selenium	15 Jul 24	< 0.001	mg/L	no
Uranium	15 Jul 24	< 0.00005	mg/L	no
Sodium	15 Jul 24	11.7	mg/L	no
Fluoride	15 Jul 24	0.577	mg/L	no
Nitrite	3 Jan 24	<rdl< td=""><td>mg/L</td><td>no</td></rdl<>	mg/L	no
	4 Apr 24	<mdl< td=""><td>mg/L</td><td></td></mdl<>	mg/L	
	3 Jul 24	<rdl< td=""><td>mg/L</td><td></td></rdl<>	mg/L	
	7 Oct 24	<rdl< td=""><td>mg/L</td><td></td></rdl<>	mg/L	
Nitrate	3 Jan 24	0.150	mg/L	no
	4Apr 24	0.197	mg/L	
	3 Jul 24	0.209	mg/L	
	7 Oct 24	0.235	mg/L	

<sup>\*</sup>only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

#### Summary of lead testing under Schedule 15.1 during this reporting period

(Applicable to the following drinking water systems; large municipal residential systems, small Municipal residential systems and non-municipal year-round residential systems)

	Location Type	Number	Range of Lead	Unit of	Number of
		of	Results	Measure	Exceedances
		Samples	(min#) – (max #)		
Round 1	Plumbing	43	0.00002 - 0.00528	mg/L	0
Dec 15 2023 to				3	
Apr 15 2024					
	Distribution	8	0.00010-0.00159	mg/L	0
Round 2	Plumbing	44	0.00003 - 0.01180	mg/L	1
June 15 2024 to					
Oct 15 2024					
	Distribution	8	0.00013-0.00032	mg/L	0

Summary of Organic parameters sampled during this reporting period or the most recent sample results



	g-water by		ulation O.	Reg. 170/03
Parameter		Result		
	Sample	Value	Unit of	Exceedance
	Date		Measure	
Alachlor	15 Jul 24	<0.0003	mg/L	no
Atrazine + N-dealkylated	15 Jul 24	< 0.0005	mg/L	no
metabolites				
Azinphos-methyl	15 Jul 24	< 0.001	mg/L	no
Benzene	15 Jul 24	< 0.0005	mg/L	no
Benzo(a)pyrene	15 Jul 24	<0.000006	mg/L	no
Bromoxynil	15 Jul 24	< 0.0005	mg/L	no
Carbaryl	15 Jul 24	< 0.003	mg/L	no
Carbofuran	15 Jul 24	< 0.001	mg/L	no
Carbon Tetrachloride	15 Jul 24	< 0.0002	mg/L	no
Chlorpyrifos	15 Jul 24	< 0.0005	mg/L	no
Diazinon	15 Jul 24	< 0.001	mg/L	no
Dicamba	15 Jul 24	< 0.001	mg/L	no
1,2-Dichlorobenzene	15 Jul 24	< 0.0005	mg/L	no
1,4-Dichlorobenzene	15 Jul 24	< 0.0005	mg/L	no
1,2-Dichloroethane	15 Jul 24	< 0.0005	mg/L	no
1,1-Dichloroethylene	15 Jul 24	< 0.0005	mg/L	no
(vinylidene chloride)				
Dichloromethane	15 Jul 24	< 0.005	mg/L	no
2-4 Dichlorophenol	15 Jul 24	< 0.0002	mg/L	no
2,4-Dichlorophenoxy acetic acid	15 Jul 24	< 0.001	mg/L	no
Diclofop-methyl	15 Jul 24	< 0.0009	mg/L	no
Dimethoate	15 Jul 24	< 0.001	mg/L	no
Diquat	15 Jul 24	< 0.005	mg/L	no
Diuron	15 Jul 24	< 0.005	mg/L	no
Glyphosate	15 Jul 24	< 0.025	mg/L	no
HAA		47.99	ug/L	no
(NOTE: show latest annual average)				
Malathion	15 Jul 24	< 0.005	mg/L	no
Metolachlor	15 Jul 24	< 0.003	mg/L	no
Metribuzin	15 Jul 24	< 0.003	mg/L	no
Monochlorobenzene	15 Jul 24	< 0.0005	mg/L	no
Paraquat	15 Jul 24	< 0.001	mg/L	no
Pentachlorophenol	15 Jul 24	< 0.0002	mg/L	no
Phorate	15 Jul 24	< 0.0003	mg/L	no
Picloram	15 Jul 24	< 0.005	mg/L	no
Polychlorinated Biphenyls(PCB)	15 Jul 24	<0.00005	mg/L	no
Prometryne	15 Jul 24	< 0.0001	mg/L	no
Simazine	15 Jul 24	< 0.0005	mg/L	no
THM		69.86	ug/L	no
(NOTE: show latest annual average)				
Terbufos	15 Jul 24	< 0.0005	mg/L	no



Parameter		Result		
	Sample	Value	Unit of	Exceedance
	Date		Measure	
Tetrachloroethylene	15 Jul 24	< 0.0005	mg/L	no
2,3,4,6-Tetrachlorophenol	15 Jul 24	<0.0002	mg/L	no
Triallate	15 Jul 24	< 0.01	mg/L	no
Trichloroethylene	15 Jul 24	< 0.0005	mg/L	no
2,4,6-Trichlorophenol	15 Jul 24	<0.0002	mg/L	no
Trifluralin	15 Jul 24	< 0.0005	mg/L	no
Vinyl Chloride	15 Jul 24	< 0.0002	mg/L	no
2 Methyl-4-Chlorophenoxyacetic	15 Jul 24	< 0.01	mg/L	no
acid (MCPA)				

THM Dist. Sample Location	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>		
Mid-Canada Line &	Quarter	Quarter	Quarter	Quarter	Unit of	Exceed-
Pinewood Park Sample	Result	Result	Result	Result	Measure	dance
Stations	Value	Value	Value	Value		
Sample Period	Jan. 2 –	Apr.2 –	July 2 –	Oct. 2 –	mg/L	
-	Mar. 6,	June 3,	Sept. 4,	Dec. 10,		
	2024	2024	2024	2024	_	
Bromodichloromethane	0.0040	0.0040	0.0050	0.0040	mg/L	
(Average)	0.0040	0.0040	0.0047	0.0035		
Bromoform(Average)	< 0.005	< 0.005	< 0.005	< 0.005	mg/L	
	< 0.005	< 0.005	< 0.005	< 0.005		
Chloroform(Average)	0.09350	0.10467	0.12267	0.09000	mg/L	
<b>,</b> 3,	0.09533	0.11367	0.11100	0.07100		
Dibromochloromethane	< 0.002	< 0.002	< 0.002	< 0.002	mg/L	
(Average)	< 0.002	< 0.002	< 0.002	< 0.002		
<b>Total Trihalomethanes</b>	0.09840	0.11333	0.12167	0.08450	mg/L	
THM All Distribution sites	1st	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>		
(Averages)	Quarter	Quarter	Quarter	Quarter	Unit of	Exceed-
(	Result	Result	Result	Result	Measure	dance
	Value	Value	Value	Value		
	,	, 33233	, 611616	, 33233		
Sample Period	Jan. 2 –	Apr.2 –	July 2, -	Oct. 2 –	mg/L	
<b>F</b>	Mar. 6,	June 3,	Sep. 4,	Dec. 10,		
	2024	2024	2024	2024		
Bromodichloromethane	0.0022	0.0025	0.0027	0.0018	mg/L	
Bromoform	< 0.005	<0.005	< 0.005	< 0.005	mg/L	
Chloroform	0.06822	0.07739	0.07144	0.05125	mg/L	
					_	
Dibromochloromethane	< 0.002	< 0.002	< 0.002	< 0.002	mg/L	
<b>Total Trihalomethanes</b>	0.07106	0.08022	0.07447	0.05369	mg/L	



THM Dist. Sample Location Mid-Canada Line & Pinewood Park Sample Stations	1 <sup>st</sup> Quarter Result Value	2 <sup>nd</sup> Quarter Result Value	3 <sup>rd</sup> Quarter Result Value	4 <sup>th</sup> Quarter Result Value	Unit of Measure	Exceed- dance
Total Trihalomethanes 4 Quarter Running Average (Random & Fixed Sites Included)				0.06986	mg/L	No

HAA Distribution Sample	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>		
Locations Judge Valve &	Quarter	Quarter	Quarter	Quarter	Unit of	Exceed-
HLPS	Result	Result	Result	Result	Measure	dance
(Averages)	Value	Value	Value	Value		
Sample Period	Jan 1 –	Apr.1 –	July 1, -	Oct. 1 –		
Sample 1 criou	Mar. 31,	June. 30,	Sep. 30,	Dec. 31,		
	2024	2024	2024	2024		
(Mono)Bromoacetic Acid	< RDL	< 0.0029	< 0.0029	< 0.0029	mg/L	
	< RDL	< 0.0029	< 0.0029	< 0.0029		
(Mono) Chloroacetic Acid	< RDL	< 0.0047	< 0.0047	< 0.0047	mg/L	
	< RDL	< 0.0047	< 0.0047	< 0.0047		
Dibromoacetic Acid	< RDL	< 0.002	< 0.002	< 0.002	mg/L	
	< RDL	< 0.002	< 0.002	< 0.002		
Dichloroacetic Acid	0.0218	0.0279	0.0203	0.0186	mg/L	
	0.0208	0.0210	0.0245	0.0134		
Trichloroacetic Acid	0.0260	0.0397	0.0273	0.0240	mg/L	
	0.0264	0.0235	0.0347	0.0140		
Avg.Total Haloacetic Acids	0.04750	0.05605	0.05340	0.03500	mg/L	
Total Haloacetic Acid Running Quarterly	1	,	1	0.04799	mg/L	No
				0.04799	mg/L	IN



Quarterly PFAS	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	Unit of	Exceed
Sample (Range)	Quarter	Quarter	Quarter	Quarter	Measure	-dance
	Result	Result	Result	Result		
	Value	Value	Value	Value		
	Jan. 9,	April 9,	July 9,	October	ng/L	
	2024	2024	2024	7, 2024		
Perfluorodecanoic Acid (PFDA)	<2.0	<2.0	<2.0	<2.0	ng/L	
Perfluorododecanoic Acid (PFDOA)	<2.0	<2.0	<2.0	<2.0	ng/L	
Perfluorodecane Suldonic Acid (PFDS)	<2.0	<2.0	<2.0	<2.0	ng/L	
Perfluoroheptanoic Acid 3 (PFHPA)	3.1	3.5	3.2	3.3	ng/L	
Perfluorohexanoic Acid (PFHXA)	5.5	5.9	5.7	4.9	ng/L	
Perfluorohexane Sulfonic Acid (PFHXS)	11.0	12.7	9.3	11.7	ng/L	
Perfluorononanoic Acid (PFNA)	<2.0	<2.0	<2.0	<2.0	ng/L	
Perfluorooctanoic Acid (PFOA)	2.9	3.6	3.2	3.1	ng/L	
Perfluorooctane Sulfonic Acid (PFOS)	26.6	32.2	25.7	27.2	ng/L	
Perfluorooctane Sulfonamide (PFOSA)	<2.0	<2.0	<2.0	<2.0	ng/L	
Perfluoroundecanoic Acid (PFUNA)	<2.0	<2.0	<2.0	<2.0	ng/L	
Total Sum for Quarter	49.1	57.9	47.1	50.2	ng/L	No

<sup>\*\*</sup> Sample Results and Sums are representing Treated Samples at POE. \*\*\*\*



List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	ater Quality Standards.  Result Value	Unit of	1/2 MAC	MAC	Date of Sample
		Measure	VALUE	VALUE	
THM	0.0740	mg/L	0.050	0.100	Jan.2,2024
THM	0.0890	mg/L	0.050	0.100	Jan.2,2024
THM	0.0520	mg/L	0.050	0.100	Jan.2,2024
THM	0.0540	mg/L	0.050	0.100	Jan.2,2024
THM	0.0520	mg/L	0.050	0.100	Jan.2,2024
THM	0.0620	mg/L	0.050	0.100	Jan.2,2024
THM	0.0630	mg/L	0.050	0.100	Jan.2,2024
THM	0.0670	mg/L	0.050	0.100	Jan.2,2024
THM	0.0890	mg/L	0.050	0.100	Jan.2,2024
THM	0.1080	mg/L	0.050	0.100	Jan.2,2024
PFAS(Raw)	56.40	ng/L	35.00	70.00	Jan.9,2024
PFAS(Treated)	49.10	ng/L	35.00	70.00	Jan.9,2024
THM	0.0740	mg/L	0.050	0.100	Jan.10,2024
THM	0.0710	mg/L	0.050	0.100	Jan.10,2024
THM	0.0710	mg/L	0.050	0.100	Feb.5,2024
THM	0.0510	mg/L	0.050	0.100	Feb.5,2024
THM	0.0530	mg/L	0.050	0.100	Feb.5,2024
THM	0.0900	mg/L	0.050	0.100	Feb.5,2024
THM	0.0770	mg/L	0.050	0.100	Feb.5,2024
THM	0.0850	mg/L	0.050	0.100	Feb.5,2024
THM	0.0610	mg/L	0.050	0.100	Feb.5,2024
THM	0.0750	mg/L	0.050	0.100	Feb.5,2024
THM	0.0620	mg/L	0.050	0.100	Feb.5,2024
THM	0.0960	mg/L	0.050	0.100	Feb.5,2024
THM	0.0700	mg/L	0.050	0.100	Feb.7,2024
THM	0.0790	mg/L	0.050	0.100	Feb.7,2024
THM	0.0740	mg/L	0.050	0.100	Mar.4,2024
THM	0.0870	mg/L	0.050	0.100	Mar.4,2024
THM	0.1040	mg/L	0.050	0.100	Mar.4,2024
THM	0.0550	mg/L	0.050	0.100	Mar.4,2024
THM	0.0610	mg/L	0.050	0.100	Mar.4,2024
THM	0.0540	mg/L	0.050	0.100	Mar.4,2024
THM	0.0600	mg/L	0.050	0.100	Mar.4,2024
THM	0.0650	mg/L	0.050	0.100	Mar.4,2024
THM	0.0940	mg/L	0.050	0.100	Mar.4,2024
HAA	0.0478	mg/L mg/L	0.040	0.080	Mar.5,2024
HAA	0.0472	mg/L mg/L	0.040	0.080	Mar.5,2024
THM	0.0620	mg/L mg/L	0.040	0.100	Mar.6,2024
THM	0.0680	mg/L mg/L	0.050	0.100	Mar.6,2024
THM	0.0860		0.050	0.100	Apr.2,2024
TUM	0.0000	mg/L	0.050	0.100	Apr.2,2024



Measure   VALUE   VALUE   THM   0.1090   mg/L   0.050   0.100   Apr.2,2024   Apr.	Vorteal	Dilliking Wate				
THM         0.1080         mg/L         0.050         0.100         Apr.2,2024           THM         0.0720         mg/L         0.050         0.100         Apr.2,2024           THM         0.0620         mg/L         0.050         0.100         Apr.2,2024           THM         0.0660         mg/L         0.050         0.100         Apr.2,2024           THM         0.0560         mg/L         0.050         0.100         Apr.2,2024           THM         0.0750         mg/L         0.050         0.100         Apr.2,2024           THM         0.0780         mg/L         0.050         0.100         Apr.2,2024           THM         0.070         mg/L         0.050         0.100         Apr.2,2024           THM         0.1070         mg/L         0.050         0.100         Apr.2,2024           THM         0.0850         mg/L         0.050         0.100         Apr.2,2024           THM         0.0960         mg/L         0.050         0.100         Apr.4,2024           PFAS(Raw)         56.80         ng/L         35.00         70.00         Apr.9,2024           THM         0.0840         mg/L         0.050         0.100 <td>Parameter</td> <td>Result Value</td> <td>Unit of Measure</td> <td>½ MAC VALUE</td> <td>MAC VALUE</td> <td>Date of Sample</td>	Parameter	Result Value	Unit of Measure	½ MAC VALUE	MAC VALUE	Date of Sample
THM         0.1080         mg/L         0.050         0.100         Apr.2,2024           THM         0.0720         mg/L         0.050         0.100         Apr.2,2024           THM         0.0620         mg/L         0.050         0.100         Apr.2,2024           THM         0.0660         mg/L         0.050         0.100         Apr.2,2024           THM         0.0560         mg/L         0.050         0.100         Apr.2,2024           THM         0.0750         mg/L         0.050         0.100         Apr.2,2024           THM         0.0780         mg/L         0.050         0.100         Apr.2,2024           THM         0.0780         mg/L         0.050         0.100         Apr.2,2024           THM         0.0780         mg/L         0.050         0.100         Apr.2,2024           THM         0.0850         mg/L         0.050         0.100         Apr.4,2024           THM         0.0960         mg/L         0.050         0.100         Apr.4,2024           PFAS(Raw)         56.80         ng/L         35.00         70.00         Apr.9,2024           THM         0.0840         mg/L         0.050         0.100 <td>THM</td> <td>0.1090</td> <td>mg/L</td> <td>0.050</td> <td>0.100</td> <td>Apr.2,2024</td>	THM	0.1090	mg/L	0.050	0.100	Apr.2,2024
THM         0.0720         mg/L         0.050         0.100         Apr.2,2024           THM         0.0620         mg/L         0.050         0.100         Apr.2,2024           THM         0.0660         mg/L         0.050         0.100         Apr.2,2024           THM         0.0550         mg/L         0.050         0.100         Apr.2,2024           THM         0.0750         mg/L         0.050         0.100         Apr.2,2024           THM         0.0780         mg/L         0.050         0.100         Apr.2,2024           THM         0.1070         mg/L         0.050         0.100         Apr.2,2024           THM         0.0850         mg/L         0.050         0.100         Apr.2,2024           THM         0.0850         mg/L         0.050         0.100         Apr.4,2024           THM         0.0850         mg/L         0.050         0.100         Apr.4,2024           THM         0.0960         mg/L         0.050         0.100         Apr.9,2024           THM         0.0840         mg/L         0.050         0.100         May 7,2024           THM         0.0840         mg/L         0.050         0.100	THM	0.1080	mg/L	0.050	0.100	_
THM         0.0620         mg/L         0.050         0.100         Apr.2,2024           THM         0.0660         mg/L         0.050         0.100         Apr.2,2024           THM         0.0560         mg/L         0.050         0.100         Apr.2,2024           THM         0.0750         mg/L         0.050         0.100         Apr.2,2024           THM         0.0780         mg/L         0.050         0.100         Apr.2,2024           THM         0.1070         mg/L         0.050         0.100         Apr.2,2024           THM         0.0850         mg/L         0.050         0.100         Apr.2,2024           THM         0.0850         mg/L         0.050         0.100         Apr.4,2024           THM         0.0960         mg/L         0.050         0.100         Apr.4,2024           THM         0.0960         mg/L         0.050         0.100         Apr.9,2024           TFAS(Raw)         56.80         ng/L         35.00         70.00         Apr.9,2024           THM         0.0840         mg/L         0.050         0.100         May 7,2024           THM         0.0910         mg/L         0.050         0.100 <td>THM</td> <td>0.0720</td> <td>Ü</td> <td>0.050</td> <td>0.100</td> <td></td>	THM	0.0720	Ü	0.050	0.100	
THM         0.0660         mg/L         0.050         0.100         Apr.2,2024           THM         0.0560         mg/L         0.050         0.100         Apr.2,2024           THM         0.0750         mg/L         0.050         0.100         Apr.2,2024           THM         0.0780         mg/L         0.050         0.100         Apr.2,2024           THM         0.1070         mg/L         0.050         0.100         Apr.2,2024           THM         0.0850         mg/L         0.050         0.100         Apr.4,2024           THM         0.0960         mg/L         0.050         0.100         Apr.4,2024           THM         0.0960         mg/L         0.050         0.100         Apr.4,2024           PFAS(Raw)         56.80         ng/L         35.00         70.00         Apr.9,2024           PFAS(Treated)         57.90         ng/L         35.00         70.00         Apr.9,2024           THM         0.0840         mg/L         0.050         0.100         May 7,2024           THM         0.0910         mg/L         0.050         0.100         May 7,2024           THM         0.0780         mg/L         0.050 <td< td=""><td>THM</td><td>0.0620</td><td></td><td>0.050</td><td>0.100</td><td></td></td<>	THM	0.0620		0.050	0.100	
THM         0.0560         mg/L         0.050         0.100         Apr.2,2024           THM         0.0750         mg/L         0.050         0.100         Apr.2,2024           THM         0.0780         mg/L         0.050         0.100         Apr.2,2024           THM         0.1070         mg/L         0.050         0.100         Apr.2,2024           THM         0.0850         mg/L         0.050         0.100         Apr.4,2024           THM         0.0960         mg/L         0.050         0.100         Apr.4,2024           PFAS(Raw)         56.80         ng/L         35.00         70.00         Apr.9,2024           PFAS(Treated)         57.90         ng/L         35.00         70.00         Apr.9,2024           THM         0.0840         mg/L         0.050         0.100         May 7,2024           THM         0.0910         mg/L         0.050         0.100         May 7,2024           THM         0.0780         mg/L         0.050         0.100         May 7,2024           THM         0.0780         mg/L         0.050         0.100         May 7,2024           THM         0.0830         mg/L         0.050 <td< td=""><td>THM</td><td>0.0660</td><td>Ü</td><td>0.050</td><td>0.100</td><td>-</td></td<>	THM	0.0660	Ü	0.050	0.100	-
THM         0.0750         mg/L         0.050         0.100         Apr.2,2024           THM         0.0780         mg/L         0.050         0.100         Apr.2,2024           THM         0.1070         mg/L         0.050         0.100         Apr.2,2024           THM         0.0850         mg/L         0.050         0.100         Apr.4,2024           THM         0.0960         mg/L         0.050         0.100         Apr.4,2024           THM         0.0960         mg/L         35.00         70.00         Apr.9,2024           PFAS(Raw)         56.80         ng/L         35.00         70.00         Apr.9,2024           PFAS(Treated)         57.90         ng/L         0.050         0.100         May 7,2024           THM         0.0840         mg/L         0.050         0.100         May 7,2024           THM         0.0910         mg/L         0.050         0.100         May 7,2024           THM         0.0780         mg/L         0.050         0.100         May 7,2024           THM         0.0830         mg/L         0.050         0.100         May 7,2024           THM         0.0870         mg/L         0.050 <td< td=""><td>THM</td><td>0.0560</td><td></td><td>0.050</td><td>0.100</td><td>-</td></td<>	THM	0.0560		0.050	0.100	-
THM         0.0780         mg/L         0.050         0.100         Apr.2,2024           THM         0.1070         mg/L         0.050         0.100         Apr.2,2024           THM         0.0850         mg/L         0.050         0.100         Apr.2,2024           THM         0.0960         mg/L         0.050         0.100         Apr.4,2024           PFAS(Raw)         56.80         ng/L         35.00         70.00         Apr.9,2024           PFAS(Treated)         57.90         ng/L         35.00         70.00         Apr.9,2024           THM         0.0840         mg/L         0.050         0.100         May 7,2024           THM         0.0910         mg/L         0.050         0.100         May 7,2024           THM         0.0780         mg/L         0.050         0.100         May 7,2024           THM         0.0780         mg/L         0.050         0.100         May 7,2024           THM         0.0830         mg/L         0.050         0.100         May 7,2024           THM         0.0870         mg/L         0.050         0.100         May 7,2024           THM         0.0810         mg/L         0.050 <td< td=""><td>THM</td><td>0.0750</td><td>,</td><td>0.050</td><td>0.100</td><td>_</td></td<>	THM	0.0750	,	0.050	0.100	_
THM         0.1070         mg/L         0.050         0.100         Apr.2,2024           THM         0.0850         mg/L         0.050         0.100         Apr.4,2024           THM         0.0960         mg/L         0.050         0.100         Apr.4,2024           PFAS(Raw)         56.80         ng/L         35.00         70.00         Apr.9,2024           PFAS(Treated)         57.90         ng/L         35.00         70.00         Apr.9,2024           THM         0.0840         mg/L         0.050         0.100         May 7,2024           THM         0.0910         mg/L         0.050         0.100         May 7,2024           THM         0.0910         mg/L         0.050         0.100         May 7,2024           THM         0.0780         mg/L         0.050         0.100         May 7,2024           THM         0.0830         mg/L         0.050         0.100         May 7,2024           THM         0.1220         mg/L         0.050         0.100         May 7,2024           THM         0.0870         mg/L         0.050         0.100         May 7,2024           THM         0.0610         mg/L         0.050 <td< td=""><td>THM</td><td>0.0780</td><td>mg/L</td><td>0.050</td><td>0.100</td><td></td></td<>	THM	0.0780	mg/L	0.050	0.100	
THM         0.0960         mg/L         0.050         0.100         Apr.4,2024           PFAS(Raw)         56.80         ng/L         35.00         70.00         Apr.9,2024           PFAS(Treated)         57.90         ng/L         35.00         70.00         Apr.9,2024           THM         0.0840         mg/L         0.050         0.100         May 7,2024           THM         0.0910         mg/L         0.050         0.100         May 7,2024           THM         0.0780         mg/L         0.050         0.100         May 7,2024           THM         0.0830         mg/L         0.050         0.100         May 7,2024           THM         0.1220         mg/L         0.050         0.100         May 7,2024           THM         0.0870         mg/L         0.050         0.100         May 7,2024           THM         0.0610         mg/L         0.050         0.100         May 7,2024           THM         0.0650         mg/L         0.050         0.100         May 7,2024           THM         0.0680         mg/L         0.050         0.100         May 7,2024           THM         0.0690         mg/L         0.050 <td< td=""><td>THM</td><td>0.1070</td><td></td><td>0.050</td><td>0.100</td><td>Apr.2,2024</td></td<>	THM	0.1070		0.050	0.100	Apr.2,2024
PFAS(Raw)         56.80         ng/L         35.00         70.00         Apr.9,2024           PFAS(Treated)         57.90         ng/L         35.00         70.00         Apr.9,2024           THM         0.0840         mg/L         0.050         0.100         May 7,2024           THM         0.0910         mg/L         0.050         0.100         May 7,2024           THM         0.0780         mg/L         0.050         0.100         May 7,2024           THM         0.0830         mg/L         0.050         0.100         May 7,2024           THM         0.1220         mg/L         0.050         0.100         May 7,2024           THM         0.0870         mg/L         0.050         0.100         May 7,2024           THM         0.0610         mg/L         0.050         0.100         May 7,2024           THM         0.0610         mg/L         0.050         0.100         May 7,2024           THM         0.0680         mg/L         0.050         0.100         May 7,2024           THM         0.0680         mg/L         0.050         0.100         May 7,2024           THM         0.0740         mg/L         0.050 <td< td=""><td>THM</td><td>0.0850</td><td></td><td>0.050</td><td>0.100</td><td></td></td<>	THM	0.0850		0.050	0.100	
PFAS(Raw)         56.80         ng/L         35.00         70.00         Apr.9,2024           PFAS(Treated)         57.90         ng/L         35.00         70.00         Apr.9,2024           THM         0.0840         mg/L         0.050         0.100         May 7,2024           THM         0.0910         mg/L         0.050         0.100         May 7,2024           THM         0.0780         mg/L         0.050         0.100         May 7,2024           THM         0.0830         mg/L         0.050         0.100         May 7,2024           THM         0.1220         mg/L         0.050         0.100         May 7,2024           THM         0.0870         mg/L         0.050         0.100         May 7,2024           THM         0.0610         mg/L         0.050         0.100         May 7,2024           THM         0.0610         mg/L         0.050         0.100         May 7,2024           THM         0.0680         mg/L         0.050         0.100         May 7,2024           THM         0.0680         mg/L         0.050         0.100         May 7,2024           THM         0.0740         mg/L         0.050 <td< td=""><td>THM</td><td>0.0960</td><td>mg/L</td><td>0.050</td><td>0.100</td><td>Apr.4,2024</td></td<>	THM	0.0960	mg/L	0.050	0.100	Apr.4,2024
THM         0.0840         mg/L         0.050         0.100         May 7,2024           THM         0.0910         mg/L         0.050         0.100         May 7,2024           THM         0.0780         mg/L         0.050         0.100         May 7,2024           THM         0.0830         mg/L         0.050         0.100         May 7,2024           THM         0.1220         mg/L         0.050         0.100         May 7,2024           THM         0.0870         mg/L         0.050         0.100         May 7,2024           THM         0.0610         mg/L         0.050         0.100         May 7,2024           THM         0.0610         mg/L         0.050         0.100         May 7,2024           THM         0.0680         mg/L         0.050         0.100         May 7,2024           THM         0.0680         mg/L         0.050         0.100         May 7,2024           THM         0.0740         mg/L         0.050         0.100         May 7,2024           THM         0.1120         mg/L         0.050         0.100         May 7,2024           THM         0.1120         mg/L         0.050         0.100	PFAS(Raw)	56.80	ng/L	35.00	70.00	
THM         0.0910         mg/L         0.050         0.100         May 7,2024           THM         0.0780         mg/L         0.050         0.100         May 7,2024           THM         0.0830         mg/L         0.050         0.100         May 7,2024           THM         0.1220         mg/L         0.050         0.100         May 7,2024           THM         0.0870         mg/L         0.050         0.100         May 7,2024           THM         0.0610         mg/L         0.050         0.100         May 7,2024           THM         0.0550         mg/L         0.050         0.100         May 7,2024           THM         0.0680         mg/L         0.050         0.100         May 7,2024           THM         0.0690         mg/L         0.050         0.100         May 7,2024           THM         0.0740         mg/L         0.050         0.100         May 7,2024           THM         0.1120         mg/L         0.050         0.100         May 7,2024           THA         0.0445         mg/L         0.050         0.100         May 7,2024           THM         0.0676         mg/L         0.040         0.080	PFAS(Treated)	57.90	ng/L	35.00	70.00	Apr.9,2024
THM         0.0910         mg/L         0.050         0.100         May 7,2024           THM         0.0780         mg/L         0.050         0.100         May 7,2024           THM         0.0830         mg/L         0.050         0.100         May 7,2024           THM         0.1220         mg/L         0.050         0.100         May 7,2024           THM         0.0870         mg/L         0.050         0.100         May 7,2024           THM         0.0610         mg/L         0.050         0.100         May 7,2024           THM         0.0550         mg/L         0.050         0.100         May 7,2024           THM         0.0680         mg/L         0.050         0.100         May 7,2024           THM         0.0690         mg/L         0.050         0.100         May 7,2024           THM         0.0740         mg/L         0.050         0.100         May 7,2024           THM         0.1120         mg/L         0.050         0.100         May 7,2024           THA         0.0445         mg/L         0.050         0.100         May 7,2024           THM         0.0676         mg/L         0.040         0.080		0.0840		0.050	0.100	-
THM         0.0830         mg/L         0.050         0.100         May 7,2024           THM         0.1220         mg/L         0.050         0.100         May 7,2024           THM         0.0870         mg/L         0.050         0.100         May 7,2024           THM         0.0610         mg/L         0.050         0.100         May 7,2024           THM         0.0550         mg/L         0.050         0.100         May 7,2024           THM         0.0680         mg/L         0.050         0.100         May 7,2024           THM         0.0690         mg/L         0.050         0.100         May 7,2024           THM         0.0740         mg/L         0.050         0.100         May 7,2024           THM         0.1120         mg/L         0.050         0.100         May 7,2024           THM         0.1120         mg/L         0.050         0.100         May 7,2024           THAA         0.0445         mg/L         0.050         0.100         May 7,2024           THM         0.0676         mg/L         0.040         0.080         June 3,2024           THM         0.0690         mg/L         0.050         0.100	THM	0.0910	mg/L	0.050	0.100	May 7,2024
THM         0.1220         mg/L         0.050         0.100         May 7,2024           THM         0.0870         mg/L         0.050         0.100         May 7,2024           THM         0.0610         mg/L         0.050         0.100         May 7,2024           THM         0.0550         mg/L         0.050         0.100         May 7,2024           THM         0.0680         mg/L         0.050         0.100         May 7,2024           THM         0.0690         mg/L         0.050         0.100         May 7,2024           THM         0.0740         mg/L         0.050         0.100         May 7,2024           THM         0.1120         mg/L         0.050         0.100         May 7,2024           THM         0.1120         mg/L         0.050         0.100         May 7,2024           THAA         0.0445         mg/L         0.040         0.080         June 3,2024           THM         0.0790         mg/L         0.040         0.080         June 3,2024           THM         0.0690         mg/L         0.050         0.100         June 3,2024           THM         0.1230         mg/L         0.050         0.100 <td>THM</td> <td>0.0780</td> <td>mg/L</td> <td>0.050</td> <td>0.100</td> <td>May 7,2024</td>	THM	0.0780	mg/L	0.050	0.100	May 7,2024
THM         0.0870         mg/L         0.050         0.100         May 7,2024           THM         0.0610         mg/L         0.050         0.100         May 7,2024           THM         0.0550         mg/L         0.050         0.100         May 7,2024           THM         0.0680         mg/L         0.050         0.100         May 7,2024           THM         0.0690         mg/L         0.050         0.100         May 7,2024           THM         0.0740         mg/L         0.050         0.100         May 7,2024           THM         0.1120         mg/L         0.050         0.100         May 7,2024           THM         0.1120         mg/L         0.050         0.100         May 7,2024           HAA         0.0445         mg/L         0.040         0.080         June 3,2024           THM         0.0790         mg/L         0.040         0.080         June 3,2024           THM         0.0690         mg/L         0.050         0.100         June 3,2024           THM         0.1230         mg/L         0.050         0.100         June 3,2024           THM         0.0860         mg/L         0.050         0.100 <td>THM</td> <td>0.0830</td> <td></td> <td>0.050</td> <td>0.100</td> <td>• /</td>	THM	0.0830		0.050	0.100	• /
THM         0.0870         mg/L         0.050         0.100         May 7,2024           THM         0.0610         mg/L         0.050         0.100         May 7,2024           THM         0.0550         mg/L         0.050         0.100         May 7,2024           THM         0.0680         mg/L         0.050         0.100         May 7,2024           THM         0.0690         mg/L         0.050         0.100         May 7,2024           THM         0.0740         mg/L         0.050         0.100         May 7,2024           THM         0.1120         mg/L         0.050         0.100         May 7,2024           THM         0.1120         mg/L         0.050         0.100         May 7,2024           HAA         0.0445         mg/L         0.040         0.080         June 3,2024           THM         0.0676         mg/L         0.040         0.080         June 3,2024           THM         0.0690         mg/L         0.050         0.100         June 3,2024           THM         0.1230         mg/L         0.050         0.100         June 3,2024           THM         0.0860         mg/L         0.050         0.100 <td>THM</td> <td>0.1220</td> <td>Ü</td> <td>0.050</td> <td>0.100</td> <td> ′</td>	THM	0.1220	Ü	0.050	0.100	′
THM         0.0550         mg/L         0.050         0.100         May 7,2024           THM         0.0680         mg/L         0.050         0.100         May 7,2024           THM         0.0690         mg/L         0.050         0.100         May 7,2024           THM         0.0740         mg/L         0.050         0.100         May 7,2024           THM         0.1120         mg/L         0.050         0.100         May 7,2024           THM         0.0445         mg/L         0.040         0.080         June 3,2024           HAA         0.0676         mg/L         0.040         0.080         June 3,2024           THM         0.0790         mg/L         0.050         0.100         June 3,2024           THM         0.0690         mg/L         0.050         0.100         June 3,2024           THM         0.1230         mg/L         0.050         0.100         June 3,2024           THM         0.0930         mg/L         0.050         0.100         June 3,2024           THM         0.0860         mg/L         0.050         0.100         June 3,2024           THM         0.0620         mg/L         0.050         0.100<	THM	0.0870	mg/L	0.050	0.100	•
THM         0.0680         mg/L         0.050         0.100         May 7,2024           THM         0.0690         mg/L         0.050         0.100         May 7,2024           THM         0.0740         mg/L         0.050         0.100         May 7,2024           THM         0.1120         mg/L         0.050         0.100         May 7,2024           THM         0.0445         mg/L         0.040         0.080         June 3,2024           HAA         0.0676         mg/L         0.040         0.080         June 3,2024           THM         0.0790         mg/L         0.050         0.100         June 3,2024           THM         0.0690         mg/L         0.050         0.100         June 3,2024           THM         0.1230         mg/L         0.050         0.100         June 3,2024           THM         0.0930         mg/L         0.050         0.100         June 3,2024           THM         0.0860         mg/L         0.050         0.100         June 3,2024           THM         0.0620         mg/L         0.050         0.100         June 3,2024           THM         0.0560         mg/L         0.050         0.100	THM	0.0610	mg/L	0.050	0.100	May 7,2024
THM         0.0680         mg/L         0.050         0.100         May 7,2024           THM         0.0690         mg/L         0.050         0.100         May 7,2024           THM         0.0740         mg/L         0.050         0.100         May 7,2024           THM         0.1120         mg/L         0.050         0.100         May 7,2024           HAA         0.0445         mg/L         0.040         0.080         June 3,2024           HAA         0.0676         mg/L         0.040         0.080         June 3,2024           THM         0.0790         mg/L         0.050         0.100         June 3,2024           THM         0.0690         mg/L         0.050         0.100         June 3,2024           THM         0.1230         mg/L         0.050         0.100         June 3,2024           THM         0.0930         mg/L         0.050         0.100         June 3,2024           THM         0.0860         mg/L         0.050         0.100         June 3,2024           THM         0.0620         mg/L         0.050         0.100         June 3,2024           THM         0.0560         mg/L         0.050         0.100	THM	0.0550	mg/L	0.050	0.100	May 7,2024
THM         0.0690         mg/L         0.050         0.100         May 7,2024           THM         0.0740         mg/L         0.050         0.100         May 7,2024           THM         0.1120         mg/L         0.050         0.100         May 7,2024           HAA         0.0445         mg/L         0.040         0.080         June 3,2024           HAA         0.0676         mg/L         0.040         0.080         June 3,2024           THM         0.0790         mg/L         0.050         0.100         June 3,2024           THM         0.0690         mg/L         0.050         0.100         June 3,2024           THM         0.1230         mg/L         0.050         0.100         June 3,2024           THM         0.0930         mg/L         0.050         0.100         June 3,2024           THM         0.0860         mg/L         0.050         0.100         June 3,2024           THM         0.0620         mg/L         0.050         0.100         June 3,2024           THM         0.0560         mg/L         0.050         0.100         June 3,2024	THM	0.0680	,	0.050	0.100	May 7,2024
THM         0.1120         mg/L         0.050         0.100         May 7,2024           HAA         0.0445         mg/L         0.040         0.080         June 3,2024           HAA         0.0676         mg/L         0.040         0.080         June 3,2024           THM         0.0790         mg/L         0.050         0.100         June 3,2024           THM         0.0690         mg/L         0.050         0.100         June 3,2024           THM         0.1230         mg/L         0.050         0.100         June 3,2024           THM         0.0930         mg/L         0.050         0.100         June 3,2024           THM         0.0860         mg/L         0.050         0.100         June 3,2024           THM         0.0620         mg/L         0.050         0.100         June 3,2024           THM         0.0560         mg/L         0.050         0.100         June 3,2024	THM	0.0690		0.050	0.100	• /
THM         0.1120         mg/L         0.050         0.100         May 7,2024           HAA         0.0445         mg/L         0.040         0.080         June 3,2024           HAA         0.0676         mg/L         0.040         0.080         June 3,2024           THM         0.0790         mg/L         0.050         0.100         June 3,2024           THM         0.0690         mg/L         0.050         0.100         June 3,2024           THM         0.1230         mg/L         0.050         0.100         June 3,2024           THM         0.0930         mg/L         0.050         0.100         June 3,2024           THM         0.0860         mg/L         0.050         0.100         June 3,2024           THM         0.0620         mg/L         0.050         0.100         June 3,2024           THM         0.0560         mg/L         0.050         0.100         June 3,2024	THM	0.0740		0.050	0.100	• /
HAA         0.0445         mg/L         0.040         0.080         June 3,2024           HAA         0.0676         mg/L         0.040         0.080         June 3,2024           THM         0.0790         mg/L         0.050         0.100         June 3,2024           THM         0.0690         mg/L         0.050         0.100         June 3,2024           THM         0.1230         mg/L         0.050         0.100         June 3,2024           THM         0.0930         mg/L         0.050         0.100         June 3,2024           THM         0.0860         mg/L         0.050         0.100         June 3,2024           THM         0.0620         mg/L         0.050         0.100         June 3,2024           THM         0.0560         mg/L         0.050         0.100         June 3,2024	THM	0.1120	)	0.050	0.100	• /
THM         0.0790         mg/L         0.050         0.100         June 3,2024           THM         0.0690         mg/L         0.050         0.100         June 3,2024           THM         0.1230         mg/L         0.050         0.100         June 3,2024           THM         0.0930         mg/L         0.050         0.100         June 3,2024           THM         0.0860         mg/L         0.050         0.100         June 3,2024           THM         0.0620         mg/L         0.050         0.100         June 3,2024           THM         0.0560         mg/L         0.050         0.100         June 3,2024	HAA	0.0445		0.040	0.080	June 3,2024
THM         0.0690         mg/L         0.050         0.100         June 3,2024           THM         0.1230         mg/L         0.050         0.100         June 3,2024           THM         0.0930         mg/L         0.050         0.100         June 3,2024           THM         0.0860         mg/L         0.050         0.100         June 3,2024           THM         0.0620         mg/L         0.050         0.100         June 3,2024           THM         0.0560         mg/L         0.050         0.100         June 3,2024	HAA	0.0676	mg/L	0.040	0.080	June 3,2024
THM         0.1230         mg/L         0.050         0.100         June 3,2024           THM         0.0930         mg/L         0.050         0.100         June 3,2024           THM         0.0860         mg/L         0.050         0.100         June 3,2024           THM         0.0620         mg/L         0.050         0.100         June 3,2024           THM         0.0560         mg/L         0.050         0.100         June 3,2024	THM	0.0790	mg/L	0.050	0.100	June 3,2024
THM         0.1230         mg/L         0.050         0.100         June 3,2024           THM         0.0930         mg/L         0.050         0.100         June 3,2024           THM         0.0860         mg/L         0.050         0.100         June 3,2024           THM         0.0620         mg/L         0.050         0.100         June 3,2024           THM         0.0560         mg/L         0.050         0.100         June 3,2024	THM	0.0690	mg/L	0.050	0.100	June 3,2024
THM         0.0860         mg/L         0.050         0.100         June 3,2024           THM         0.0620         mg/L         0.050         0.100         June 3,2024           THM         0.0560         mg/L         0.050         0.100         June 3,2024	THM	0.1230		0.050	0.100	June 3,2024
THM         0.0620         mg/L         0.050         0.100         June 3,2024           THM         0.0560         mg/L         0.050         0.100         June 3,2024	THM	0.0930	mg/L	0.050	0.100	June 3,2024
THM 0.0560 mg/L 0.050 0.100 June 3,2024	THM	0.0860	mg/L	0.050	0.100	June 3,2024
8	THM	0.0620	mg/L	0.050	0.100	June 3,2024
THM 0.0500 mg/L 0.050 0.100 June 3.2024	THM	0.0560	mg/L	0.050	0.100	June 3,2024
Ottoo   Otto	THM	0.0500	mg/L	0.050	0.100	June 3,2024
THM 0.0660 mg/L 0.050 0.100 June 3,2024	THM	0.0660		0.050	0.100	June 3,2024
THM 0.0660 mg/L 0.050 0.100 June 3,2024	THM	0.0660	mg/L	0.050	0.100	June 3,2024
THM 0.1070 mg/L 0.050 0.100 June 3,2024	THM	0.1070	)	0.050	0.100	, ,
THM 0.1270 mg/L 0.050 0.100 July 2,2024						
THM 0.0880 mg/L 0.050 0.100 July 2,2024	THM	0.0880	Ü	0.050	0.100	• /
THM 0.0840 mg/L 0.050 0.100 July 2,2024	THM	0.0840	,	0.050		<b>*</b> /
THM 0.0590 mg/L 0.050 0.100 July 2,2024	THM	0.0590		0.050		• /
THM 0.0540 mg/L 0.050 0.100 July 2,2024	THM	0.0540		0.050	0.100	• /



Donomoton	Result Value	Unit of	½ MAC	MAC	Date of Sample
Parameter	Result value	Measure	VALUE	VALUE	Date of Sample
THM	0.0510	mg/L	0.050	0.100	July 2,2024
THM	0.0600	mg/L	0.050	0.100	July 2,2024
THM	0.1060	mg/L	0.050	0.100	July 2,2024
PFAS(Raw)	48.00	ng/L	35.00	70.00	July 9,2024
PFAS(Treated)	47.10	ng/L	35.00	70.00	July 9,2024
THM	0.0680	mg/L	0.050	0.100	July 10,2024
THM	0.0810	mg/L	0.050	0.100	July 10,2024
Sodium	11.70	mg/L	10.00	20.00	July 15,2024
THM	0.0540	mg/L	0.050	0.100	Aug. 6,2024
THM	0.1390	mg/L	0.050	0.100	Aug. 6,2024
THM	0.0910	mg/L	0.050	0.100	Aug. 6,2024
THM	0.0840	mg/L	0.050	0.100	Aug. 6,2024
THM	0.0640	mg/L	0.050	0.100	Aug. 6,2024
THM	0.0550	mg/L	0.050	0.100	Aug. 6,2024
THM	0.0670	mg/L	0.050	0.100	Aug. 6,2024
THM	0.0620	mg/L	0.050	0.100	Aug. 6,2024
THM	0.1160	mg/L	0.050	0.100	Aug. 6,2024
THM	0.0670	mg/L	0.050	0.100	Aug. 14,2024
THM	0.0950	mg/L	0.050	0.100	Sept.3,2024
THM	0.1180	mg/L	0.050	0.100	Sept.3,2024
THM	0.0560	mg/L	0.050	0.100	Sept.3,2024
THM	0.0650	mg/L	0.050	0.100	Sept.3,2024
THM	0.0580	mg/L	0.050	0.100	Sept.3,2024
THM	0.0820	mg/L	0.050	0.100	Sept.3,2024
THM	0.0610	mg/L	0.050	0.100	Sept.3,2024
THM	0.0590	mg/L	0.050	0.100	Sept.3,2024
THM	0.0550	mg/L	0.050	0.100	Sept.3,2024
THM	0.1240	mg/L	0.050	0.100	Sept.3,2024
THM	0.0790	mg/L	0.050	0.100	Sept.4,2024
THM	0.0740	mg/L	0.050	0.100	Sept.4,2024
HAA	0.0592	mg/L	0.040	0.080	Sept.4,2024
HAA	0.0476	mg/L	0.040	0.080	Sept.4,2024
THM	0.0630	mg/L	0.050	0.100	Oct.2,2024
THM	0.0580	mg/L	0.050	0.100	Oct.2,2024
THM	0.0500	mg/L	0.050	0.100	Oct.7,2024
THM	0.0930	mg/L	0.050	0.100	Oct.7,2024
THM	0.0640	mg/L	0.050	0.100	Oct.7,2024
THM	0.0630	mg/L	0.050	0.100	Oct.7,2024
THM	0.0690	mg/L	0.050	0.100	Oct.7,2024
PFAS(Raw)	53.80	ng/L	35.00	70.00	Oct.7,2024
PFAS(Treated)	50.20	ng/L	35.00	70.00	Oct.7,2024
THM	0.0590	mg/L	0.050	0.100	Nov.4,2024
THM	0.0550	mg/L	0.050	0.100	Nov.4,2024
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Parameter	Result Value	Unit of	1/2 MAC	MAC	Date of Sample
		Measure	VALUE	VALUE	
THM	0.0760	mg/L	0.050	0.100	Nov.4,2024
THM	0.0960	mg/L	0.050	0.100	Nov.4,2024
THM	0.0520	mg/L	0.050	0.100	Nov.4,2024
THM	0.0520	mg/L	0.050	0.100	Nov.4,2024
THM	0.0560	mg/L	0.050	0.100	Nov.4,2024
THM	0.0750	mg/L	0.050	0.100	Nov.4,2024
THM	0.0800	mg/L	0.050	0.100	Nov.4,2024
THM	0.0670	mg/L	0.050	0.100	Nov.6,2024
THM	0.0660	mg/L	0.050	0.100	Nov.6,2024
THM	0.0580	mg/L	0.050	0.100	Dec.10,2024
HAA	0.0426	mg/L	0.040	0.080	Dec.10,2024
THM	0.0580	mg/L	0.050	0.100	Dec.10,2024

<sup>\*\*\*</sup>PFAS limits are not regulated at this point, the 70ng/L is a recommended limit by MECP\*\*\*

<sup>\*\*\*</sup>THM and HAA (MAC Limits) our calculated by Running Quarterly Averages \*\*\*