

For the period of January 1st, 2022 to December 31st, 2022

Prepared for the Town of Wasaga Beach by the Ontario Clean Water Agency





Section 11 Annual Report: January 1, 2022 to December 31, 2022

The Corporation of the Town of Wasaga Beach: Wasaga Beach Drinking Water System

This report was prepared in accordance with the requirements of <u>O.Req 170/03, Section 11,</u>
<u>Annual reports</u> for the following system and reporting period:

Drinking Water System Number:	220002137
Drinking Water System Name:	Wasaga Beach Drinking Water System
Drinking Water System Owner:	The Corporation of the Town of Wasaga Beach
<b>Drinking Water System Category:</b>	Large Municipal Residential
Reporting Period:	January 1, 2022 to December 31, 2022

### Does your Drinking Water System serve more than 10,000 people?

Yes

### Is your Annual Report available to the public at no charge on a website on the Internet?

Yes

Note: If a large municipal residential system serves more than 10,000 people, the owner of the system shall ensure that a copy of every report prepared under this section is available to the public at no charge on a website on the Internet. O. Reg. 170/03, Section 11. (10)

# Location where Summary Report required under O. Reg 170/03, Schedule 22 will be available for inspection. (O. Reg 170/03, Section 11.(6)(5)):

- Hard copy available for public viewing at the Town of Wasaga Beach Public Works
   Office, 150 Westbury Road, Wasaga Beach, Ontario, L9Z 0C8
- http://www.wasagabeach.com

Note: this is required for large municipal residential systems or small municipal residential systems.

# 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	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?

N/A		

How system users are notified that the annual report is available, and is free of charge:

X Public access/notice via the web

The	Corporation of the Town of Wasaga Beach: Wasaga Beach Drinking Water System
Х	Public access/notice via Government Office
	Public access/notice via a newspaper
Χ	Public access/notice via Public Request
	Public access/notice via a Public Library

#### Description of Drinking Water System (O.Reg 170/03, Section 11.(6)(a)):

Drinking Water System Regulation: O. Reg 170/03

Public access/notice via other method:

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The Town of Wasaga Beach Drinking Water System is classified as a Large Municipal Drinking Water System, servicing an approximate population of 24,862 persons. The system is comprised of two pumphouses, including the Powerline Pumphouse and Jenetta Pumphouse which draw water from a total of six production wells. The two facilities supply water through a common distribution system.

The raw water for the Powerline pumphouse is supplied from three drilled groundwater wells (Well 2, 3 and 4). The water pumped from the wells is treated with sodium silicate (for iron sequestration) and sodium hypochlorite (for primary and secondary disinfection). The treated water is stored in one underground reservoir prior to entering the distribution system. Online equipment continuously monitors and records free chlorine residual and flowrates. The pumphouse is also equipped with standby power in the event of a power failure.

The raw water for the Jenetta pumphouse is supplied from three drilled groundwater wells (Well 1, 2 and 3). The water pumped from the wells is treated with sodium silicate (for iron sequestration) and sodium hypochlorite (for primary and secondary disinfection). Online equipment continuously monitors and records free chlorine residual and flowrates. The pumphouse is also equipped with standby power in the event of a power failure.

The distribution system consists of water that is stored in two elevated storage tanks with capacities of 2,837.5 cubic meters and 9,550 cubic meters, respectively. Additional storage is achieved in the 3,405 cubic meter underground reservoir located at the Powerline Road pumphouse. The system also contains one outpost station, added to the system in 2021 and referred to as the Sunnidale Trails Booster Pumping Station. It provides the Sunnidale Trails and surrounding development area with adequate pressure. Sunnidale Booster station is also equipped with standby power in the event of a power failure.

# List of water treatment chemicals used by the system during the reporting period (O.Reg 170/03, Section 11.(6)(a)):

- Sodium Hypochlorite 12% Solution
- Sodium Silicate

### Significant expenses were incurred to:

X Install required equipment

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X Repair required equipment

X | Replace required equipment

No significant expenses were incurred

## Description of major expenses during the reporting period to install, repair or replace required equipment (O.Reg 170/03, Section 11.(6)(e)):

- Sodium Silicate Pump Head Replacement
- Tower #2 Repairs
- Generator Repairs and Servicing- Jenetta Pumphouse
- Silicate Pump Repairs- Powerline Pumphouse
- Chlorine Tank Pipe Repairs- Jenetta Pumphouse
- High Lift Pump Control Valve Repairs- Powerline Pumphouse
- Sodium Silicate Tank Level Gauge Replacements- Powerline and Jenetta Pumphouses
- Safety Equipment Repairs- Tower #1
- Pressure Transducer Repairs- Sunnidale Booster Station
- Office Furniture- Powerline and Jenetta Pumphouses
- Pump Gallery Heater Replacements- Powerline Pumphouses
- New Chlorine Feed Pumps and Replacement- Jenetta Pumphouse
- Well #4 Control Valve Solenoid Repairs- Powerline Well House
- Installation of Bluetooth Well Probes for Remote Access at Monitoring Wells

Summary of any reports/notices submitted to the Ministry and/or Spills Action Centre in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 during the reporting period, including a description of any corrective actions taken under Schedule 17 or 18 (O. Reg 170/03, Section 11.(6)(b),(d):

Incident Date (yyyy/mm/dd)	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date (yyyy/mm/dd)
N/A	N/A	N/A	N/A	N/A	N/A

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Table 1. Microbiological testing done under the Schedule 11 of Regulation 170/03 during this reporting period (O.Reg 170/03, Section 11.(6)(c)).

Location	Number of	Coli o	Range of E. Coli or Fecal Results		Range of Total Coliform Results		_	of HPC ples
	Samples	Min.	Max.	Min.	Max.	Samples	Min.	Max.
RW <sup>1A</sup> , Well P-2	52	0	0	0	0	0	N/A	N/A
RW <sup>1A</sup> , Well P-3	52	0	0	0	0	0	N/A	N/A
RW <sup>1A</sup> , Well P-4	46 <sup>1D</sup>	0	0	0	0	0	N/A	N/A
RW <sup>1A</sup> , Well J-1	52	0	0	0	0	0	N/A	N/A
RW <sup>1A</sup> , Well J-2	52	0	0	0	0	0	N/A	N/A
RW <sup>1A</sup> , Well J-3	52	0	0	0	0	0	N/A	N/A
TW1-P <sup>1B</sup>	52	0	0	0	0	52	<10	60
TW2-J <sup>1B</sup>	52	0	0	0	0	52	<10	10
Distribution	407 <sup>1C</sup>	0	0	0	0	102 <sup>1C</sup>	<10	110

*Note: HPC = Heterotrophic Plate Count* 

Note: Units for E.Coli or Fecal Results are cfu/100 mL, units for Total Coliform Results are cfu/100 mL, units for HPC results are cfu/1mL

<sup>&</sup>lt;sup>1A</sup>RW = Well P-2=Powerline Well 2; Well P-3=Powerline Well 3; Well P-4=Powerline Well 4; Well J-1=Jenetta Street Well 1; Well J-2=Jenetta Street Well 2; Well J-3=Jenetta Street Well 3 as per PTTW #8041-BFHJV2.

<sup>&</sup>lt;sup>1B</sup>TW= Treated Water. TW1= Powerline Pumphouse; TW2= Jenetta Pumphouse

<sup>&</sup>lt;sup>1C</sup>O.Reg 170/03 Schedule 10-2.(1)(2)(3) requires that a system that serves 100,000 people or less, at least eight distribution samples, plus one additional distribution sample for every 1,000 people served by the system, are taken every month, with at least one of the samples being taken in each week and that each of the samples taken is tested for E.Coli, Total Coliforms. At least 25 percent of the samples required must be tested for general bacteria population expressed as colony counts on heterotrophic plate count (HPC). As of 2022, the population of the Town of Wasaga Beach is 24,862 persons, confirmed by the owner based on the 2021 Statistics Canada Census Data on February 9, 2022 and thus requires at the minimum 32 monthly distribution samples

<sup>&</sup>lt;sup>1D</sup>Well P-4 raw water weekly samples were not taken for the month of July until August 16<sup>th</sup>, 2022 as the well was offline for maintenance and valve repair activities.

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Table 2. Operational testing done under Schedule 7 of Regulation 170/03 during the period covered by this Annual Report (O. Reg 170/03, Section 11.(6)(c)).

	Number	Rang	ge of Results
Parameter & Location	of	Min.	Max.
	Samples		
Turbidity, Raw Water Powerline Well P-2 (Grab) [NTU] <sup>2A</sup>	12	0.21	0.88
Turbidity, Raw Water Powerline Well P-3 (Grab) [NTU] <sup>2A</sup>	12	0.13	1.10
Turbidity, Raw Water Powerline Well P-4 (Grab) [NTU] <sup>2A</sup>	11 <sup>2D</sup>	0.30	1.11
Turbidity, Raw Water Jenetta Well J-1 (Grab) [NTU]	12	0.12	1.56
Turbidity, Raw Water Jenetta Well J-2 (Grab) [NTU]	12	0.15	0.69
Turbidity, Raw Water Jenetta Well J-3 (Grab) [NTU]	12	0.17	0.61
Free Chlorine Residual, Continuous- Powerline [mg/L]-TW <sup>2B</sup>	8760	0.71	3.67
Free Chlorine Residual, Continuous- Jenetta [mg/L] <sup>2B</sup>	8760	0.42	3.03
Free Chlorine Residual, Distribution Water [mg/L] <sup>2C</sup>	8760	0.71	3.66

Note: The number of samples used for continuous monitoring units is 8760.

<sup>&</sup>lt;sup>2A</sup>O.Reg 170/03 Schedule 7-3.(1)(1.1) requires a raw water sample be taken at least once every month from each well that is supplying water to the system and tested for turbidity.

<sup>&</sup>lt;sup>2B</sup>O.Reg 170/03 Schedule 7-2.(1) requires a drinking water system that provides chlorination for primary disinfection to sample and test for free chlorine residual with continuous monitoring equipment in the treatment process at or near a location where the intended contact time has just been completed.

<sup>&</sup>lt;sup>2C</sup>O.Reg 170/03 Schedule 7-2.(3) requires a large municipal residential system that provides secondary disinfection to take at least seven distribution samples each week and immediately tested for free chlorine residual, if the system provides chlorination and does not provide chloramination

<sup>&</sup>lt;sup>2D</sup>Powerline Well P-4 no raw water turbidity sample was taken for the month of July, 2022 as the well was offline for maintenance and valve repair activities.

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Table 3. Summary of additional testing and sampling results carried out in accordance with the requirement of an approval, municipal drinking water licence or order (including OWRA) or other legal instrument. (O. Reg 170/03, Section 11.(6)(c))

Legal Instrument & Issue Date (yyyy/mm/dd)	Parameter	Date Sampled (yyyy/mm/dd)	Result	Unit of Measure
N/A	N/A	N/A	N/A	N/A

Table 4. Summary of Inorganic parameters tested during this reporting period or the most recent sample results ( $O.Reg\ 170/03$ ,  $Section\ 11.(6)(c)$ )

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Antimony: Sb (ug/L) - TW1	2021/01/28	<mdl 0.9<="" td=""><td>6.0</td><td>No</td></mdl>	6.0	No
Antimony: Sb (ug/L) - TW2	2021/01/28	<mdl 0.9<="" td=""><td>6.0</td><td>No</td></mdl>	6.0	No
Arsenic: As (ug/L) - TW1	2021/01/28	<mdl 0.2<="" td=""><td>10.0</td><td>No</td></mdl>	10.0	No
Arsenic: As (ug/L) - TW2	2021/01/28	<mdl 0.2<="" td=""><td>10.0</td><td>No</td></mdl>	10.0	No
Barium: Ba (ug/L) - TW1	2021/01/28	48.9	1000.0	No
Barium: Ba (ug/L) - TW2	2021/01/28	63.5	1000.0	No
Boron: B (ug/L) - TW1	2021/01/28	23.0	5000.0	No
Boron: B (ug/L) - TW2	2021/01/28	41.0	5000.0	No
Cadmium: Cd (µg/L) - TW1	2021/01/28	0.007	5.0	No
Cadmium: Cd (µg/L) - TW2	2021/01/28	<mdl 0.003<="" td=""><td>5.0</td><td>No</td></mdl>	5.0	No
Chromium: Cr (µg/L) - TW1	2021/01/28	0.31	50.0	No
Chromium: Cr (µg/L) - TW2	2021/01/28	0.25	50.0	No
Mercury: Hg (μg/L) - TW1	2021/01/28	<mdl 0.01<="" td=""><td>1.0</td><td>No</td></mdl>	1.0	No
Mercury: Hg (μg/L) - TW2	2021/01/28	<mdl 0.01<="" td=""><td>1.0</td><td>No</td></mdl>	1.0	No
Selenium: Se (μg/L) - TW1	2021/01/28	0.06	50.0	No
Selenium: Se (μg/L) - TW2	2021/01/28	0.05	50.0	No
Uranium: U (μg/L) - TW1	2021/01/28	0.095	20.0	No
Uranium: U (μg/L) - TW2	2021/01/28	0.012	20.0	No
Fluoride (mg/L) - TW1	2018/07/03	0.07 <sup>4B</sup>	1.5	No
Fluoride (mg/L) - TW2	2018/07/03	0.24 <sup>4B</sup>	1.5	No
Nitrite (mg/L) - TW1	2022/01/19	<mdl 0.003<="" td=""><td>1.0</td><td>No</td></mdl>	1.0	No
Nitrite (mg/L) - TW1	2022/04/20	<mdl 0.003<="" td=""><td>1.0</td><td>No</td></mdl>	1.0	No
Nitrite (mg/L) - TW1	2022/07/19	<mdl 0.003<="" td=""><td>1.0</td><td>No</td></mdl>	1.0	No
Nitrite (mg/L) - TW1	2022/10/20	<mdl 0.003<="" td=""><td>1.0</td><td>No</td></mdl>	1.0	No
Nitrite (mg/L) - TW2	2022/01/19	<mdl 0.003<="" td=""><td>1.0</td><td>No</td></mdl>	1.0	No
Nitrite (mg/L) - TW2	2022/04/20	<mdl 0.003<="" td=""><td>1.0</td><td>No</td></mdl>	1.0	No

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Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Nitrite (mg/L) - TW2	2022/07/19	<mdl 0.003<="" td=""><td>1.0</td><td>No</td></mdl>	1.0	No
Nitrite (mg/L) - TW2	2022/10/20	<mdl 0.003<="" td=""><td>1.0</td><td>No</td></mdl>	1.0	No
Nitrate (mg/L) - TW1	2022/01/19	<mdl 0.006<="" td=""><td>10.0</td><td>No</td></mdl>	10.0	No
Nitrate (mg/L) - TW1	2022/04/20	<mdl 0.006<="" td=""><td>10.0</td><td>No</td></mdl>	10.0	No
Nitrate (mg/L) - TW1	2022/07/19	<mdl 0.006<="" td=""><td>10.0</td><td>No</td></mdl>	10.0	No
Nitrate (mg/L) - TW1	2022/10/20	<mdl 0.006<="" td=""><td>10.0</td><td>No</td></mdl>	10.0	No
Nitrate (mg/L) - TW2	2022/01/19	<mdl 0.006<="" td=""><td>10.0</td><td>No</td></mdl>	10.0	No
Nitrate (mg/L) - TW2	2022/04/20	<mdl 0.006<="" td=""><td>10.0</td><td>No</td></mdl>	10.0	No
Nitrate (mg/L) - TW2	2022/07/19	<mdl 0.006<="" td=""><td>10.0</td><td>No</td></mdl>	10.0	No
Nitrate (mg/L) - TW2	2022/10/20	<mdl 0.006<="" td=""><td>10.0</td><td>No</td></mdl>	10.0	No

Note: TW1 refers to the Powerline Treatment Pumphouse located at 700 Veterans Way in Wasaga Beach, Ontario; TW2 refers to the Jenetta Treatment Pumphouse located at 17 Spruce Street, Wasaga Beach, Ontario.

Parameter & Location	Sample Date	Sample	ample Aesthetic		eedance
Parameter & Location	(yyyy/mm/dd)	Result	Objective (AO)	AO	> 20 mg/L
Sodium: Na (mg/L) – TW1	2018/07/03 <sup>4C</sup>	7.72	200 <sup>4D</sup>	No	No
Sodium: Na (mg/L) – TW2	2018/07/03 <sup>4C</sup>	14.50	200 <sup>4D</sup>	No	No

<sup>&</sup>lt;sup>4A</sup>Inorganic Parameters (Schedule 23) are required to be tested every 36 months for a Large Municipal Residential system if the system obtains water from a raw water supply that is ground water (O. Reg 170/03 Schedule 12-2.(b)). The last set of samples was collected and tested in 2021, the next set of samples is scheduled to be collected and tested in 2024.

<sup>&</sup>lt;sup>4B</sup>Fluoride is reportable every 60 months. The most recent Fluoride samples were tested in July, 2018, the next set of samples is scheduled to be tested in July, 2023.

<sup>&</sup>lt;sup>4C</sup>Sodium is reportable every 60 months. The most recent Sodium samples were tested in July, 2018, the next set of samples is scheduled to be tested in July, 2023.

<sup>&</sup>lt;sup>4D</sup>There is no regulatory Maximum Allowable Concentration (MAC) Sodium. The aesthetic objective (AO) for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified 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.

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Table 5: Summary of lead testing under Schedule 15.1 during this reporting period (O.Reg 170/03, Section 11.(6)(g))

	Number	Range o	f Results	Number of	
Location/Type & Parameter	of Samples <sup>5C</sup>	Min.	Max.	Lead Exceedances (MAC = 10 μ/L)	
Period: Ja	nuary 1 to Ap	oril 15			
Plumbing – Lead (μg/L) <sup>5A</sup>	N/A	N/A	N/A	0	
Distribution – Lead (μg/L) <sup>5B</sup>	N/A	N/A	N/A	0	
Distribution – Alkalinity (mg/L as CaCO <sub>3</sub> )	4	172	195	N/A	
Distribution – pH	4	7.13	7.44	N/A	
Period: Jur	ne 15 to Octo	ber 15			
Plumbing – Lead (μg/L) <sup>5A</sup>	N/A	N/A	N/A	0	
Distribution – Lead (μg/L) <sup>5B</sup>	N/A	N/A	N/A	0	
Distribution – Alkalinity (mg/L as CaCO <sub>3</sub> )	4	172	183	N/A	
Distribution – pH	4	7.56	7.80	N/A	
Period: D	ecember 15	to 31			
Plumbing – Lead (μg/L) <sup>5A</sup>	N/A	N/A	N/A	0	
Distribution – Lead (μg/L) <sup>5B</sup>	N/A	N/A	N/A	0	
Distribution – Alkalinity (mg/L as CaCO <sub>3</sub> )	N/A	N/A	N/A	N/A	
Distribution - pH	N/A	N/A	N/A	N/A	

Note: this is required for large municipal residential systems, small municipal residential systems or non-municipal year-round residential system.

<sup>&</sup>lt;sup>5A</sup>Plumbing samples are not applicable as this system qualifies for the plumbing exemption per O. Reg 170/03 Schedule 15.1-5 (9) (10).

<sup>&</sup>lt;sup>5B</sup>Distribution lead samples are taken every 36 months. The next set of distribution lead samples is scheduled to be sampled during the winter period of December 15, 2022 to April 15, 2023 and summer period of June 15, 2023 to October 15, 2023.

<sup>&</sup>lt;sup>5C</sup>This system follows a reduced sampling schedule (O.Reg 170/03, Section 15.1.5). The number of sampling points for the system is based on the population served by the system. The number of people served by the system is 24,862 persons (as confirmed with the Owner based on the 2021 Statistics Canada Census Data on February 9, 2022) and therefore requires four (4) distribution sampling points per sampling period.

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Table 6: Summary of Organic parameters sampled during this reporting period or the most recent sample results (O.Reg 170/03, Section 11.(6)(c)).

Parameter & Location	Sample Date <sup>6A</sup> (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Alachlor (μg/L) - TW1	2021/01/28	<mdl 0.02<="" td=""><td>5.00</td><td>No</td></mdl>	5.00	No
Alachlor (μg/L) - TW2	2021/01/28	<mdl 0.02<="" td=""><td>5.00</td><td>No</td></mdl>	5.00	No
Atrazine + N-dealkylated metabolites (µg/L) - TW1	2021/01/28	<mdl 0.01<="" td=""><td>5.00</td><td>No</td></mdl>	5.00	No
Atrazine + N-dealkylated metabolites (µg/L) - TW2	2021/01/28	<mdl 0.01<="" td=""><td>5.00</td><td>No</td></mdl>	5.00	No
Azinphos-methyl (μg/L) - TW1	2021/01/28	<mdl 0.05<="" td=""><td>20.00</td><td>No</td></mdl>	20.00	No
Azinphos-methyl (μg/L) - TW2	2021/01/28	<mdl 0.05<="" td=""><td>20.00</td><td>No</td></mdl>	20.00	No
Benzene (μg/L) - TW1	2021/01/28	<mdl 0.32<="" td=""><td>1.00</td><td>No</td></mdl>	1.00	No
Benzene (μg/L) - TW2	2021/01/28	<mdl 0.32<="" td=""><td>1.00</td><td>No</td></mdl>	1.00	No
Benzo(a)pyrene (μg/L) - TW1	2021/01/28	<mdl 0.004<="" td=""><td>0.01</td><td>No</td></mdl>	0.01	No
Benzo(a)pyrene (μg/L) - TW2	2021/01/28	<mdl 0.004<="" td=""><td>0.01</td><td>No</td></mdl>	0.01	No
Bromoxynil (μg/L) - TW1	2021/01/28	<mdl 0.33<="" td=""><td>5.00</td><td>No</td></mdl>	5.00	No
Bromoxynil (μg/L) - TW2	2021/01/28	<mdl 0.33<="" td=""><td>5.00</td><td>No</td></mdl>	5.00	No
Carbaryl (µg/L) - TW1	2021/01/28	<mdl 0.05<="" td=""><td>90.00</td><td>No</td></mdl>	90.00	No
Carbaryl (μg/L) - TW2	2021/01/28	<mdl 0.05<="" td=""><td>90.00</td><td>No</td></mdl>	90.00	No
Carbofuran (μg/L) - TW1	2021/01/28	<mdl 0.01<="" td=""><td>90.00</td><td>No</td></mdl>	90.00	No
Carbofuran (μg/L) - TW2	2021/01/28	<mdl 0.01<="" td=""><td>90.00</td><td>No</td></mdl>	90.00	No
Carbon Tetrachloride (μg/L) - TW1	2021/01/28	<mdl 0.17<="" td=""><td>2.00</td><td>No</td></mdl>	2.00	No
Carbon Tetrachloride (μg/L) - TW2	2021/01/28	<mdl 0.17<="" td=""><td>2.00</td><td>No</td></mdl>	2.00	No
Chlorpyrifos (μg/L) - TW1	2021/01/28	<mdl 0.02<="" td=""><td>90.00</td><td>No</td></mdl>	90.00	No
Chlorpyrifos (µg/L) - TW2	2021/01/28	<mdl 0.02<="" td=""><td>90.00</td><td>No</td></mdl>	90.00	No
Diazinon (μg/L) - TW1	2021/01/28	<mdl 0.02<="" td=""><td>20.00</td><td>No</td></mdl>	20.00	No
Diazinon (μg/L) - TW2	2021/01/28	<mdl 0.02<="" td=""><td>20.00</td><td>No</td></mdl>	20.00	No
Dicamba (μg/L) - TW1	2021/01/28	<mdl 0.2<="" td=""><td>120.00</td><td>No</td></mdl>	120.00	No
Dicamba (μg/L) - TW2	2021/01/28	<mdl 0.2<="" td=""><td>120.00</td><td>No</td></mdl>	120.00	No
1,2-Dichlorobenzene (μg/L) - TW1	2021/01/28	<mdl 0.41<="" td=""><td>200.00</td><td>No</td></mdl>	200.00	No
1,2-Dichlorobenzene (μg/L) - TW2	2021/01/28	<mdl 0.41<="" td=""><td>200.00</td><td>No</td></mdl>	200.00	No

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1,4-Dichlorobenzene (μg/L) - TW1	Parameter & Location	Sample Date <sup>6A</sup> (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
TW2  1,2-Dichloroethane (μg/L) - TW1  1,2-Dichloroethane (μg/L) - 2021/01/28		2021/01/28	<mdl 0.36<="" td=""><td>5.00</td><td>No</td></mdl>	5.00	No
TW1  1,2-Dichloroethane (μg/L) - TW2  1,1-Dichloroethylene (μg/L) - Z021/01/28	, , ,	2021/01/28	<mdl 0.36<="" td=""><td>5.00</td><td>No</td></mdl>	5.00	No
TW2  1,1-Dichloroethylene (μg/L) - TW1  1,1-Dichloroethylene (μg/L) - TW2  Dichloromethane (Methylene Chloride) (μg/L) - TW2  Dichloromethane (Methylene Chloride) (μg/L) - TW2  Dichloromethane (Methylene Chloride) (μg/L) - TW2  2021/01/28 (MDL 0.35  50.00  No  No  TW2  AMDL 0.35  50.00  No  No  TW1  Dichloromethane (Methylene Chloride) (μg/L) - TW2  2,4-Dichlorophenol (μg/L) - TW1  2,4-Dichlorophenol (μg/L) - TW2  2,4-Dichlorophenol (μg/L) - TW2  2,4-Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW1  2,4-Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW1  2,4-Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW1  Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW2  Diclofop-methyl (μg/L) - TW2  Diclofop-methyl (μg/L) - TW1  Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW2  Diclofop-methyl (μg/L) - TW1  Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW2  Dichlorophenoxy acetic acid (2,4-D) (μg/L)		2021/01/28	<mdl 0.35<="" td=""><td>5.00</td><td>No</td></mdl>	5.00	No
TW1  1,1-Dichloroethylene (μg/L) - TW2  Dichloromethane (Methylene Chloride) (μg/L) - TW1  Dichloromethane (Methylene Chloride) (μg/L) - TW2  2021/01/28  (Methylene Chloride) (μg/L) - TW2  2,4-Dichlorophenol (μg/L) - TW2  2,4-Dichlorophenol (μg/L) - TW1  2,4-Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW2  Diclofop-methyl (μg/L) - TW2  Diclofop-methyl (μg/L) - TW2  Diclofop-methyl (μg/L) - TW2  Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW2  Dichlorophenoxy acetic		2021/01/28	<mdl 0.35<="" td=""><td>5.00</td><td>No</td></mdl>	5.00	No
TW2  Dichloromethane (Methylene Chloride) (μg/L) - TW1  Dichloromethane (Methylene Chloride) (μg/L) - TW2  2,4-Dichlorophenol (μg/L) - TW1  2,4-Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW1  2,4-Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW1  2,4-Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW1  Diclofop-methyl (μg/L) - TW2  Diclofop-methyl (μg/L) - TW2  Diclofop-methyl (μg/L) - TW1  Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW2  Diclofop-methyl (μg/L) - TW1  Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW2  Diclofop-methyl (μg/L) - TW1  Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW1  Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW2  Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW1  Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW2  Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW1  Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW1  Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW2  Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW1  Dichlorophenoxy acetic acid (2,4-D) (μg/L)	,	2021/01/28	<mdl 0.33<="" td=""><td>14.00</td><td>No</td></mdl>	14.00	No
(Methylene Chloride) (μg/L) <mdl 0.35<="" td="">       50.00       No         - TW1       Dichloromethane       2021/01/28       <mdl 0.35<="" td="">       50.00       No         (Methylene Chloride) (μg/L) - TW2       2021/01/28       <mdl 0.15<="" td="">       900.00       No         2,4-Dichlorophenol (μg/L) - TW1       2021/01/28       <mdl 0.15<="" td="">       900.00       No         2,4-Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW1       2021/01/28       <mdl 0.19<="" td="">       100.00       No         2,4-Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW2       2021/01/28       <mdl 0.19<="" td="">       100.00       No         Diclofop-methyl (μg/L) - TW2       2021/01/28       <mdl 0.4<="" td="">       9.00       No         Diclofop-methyl (μg/L) - TW2       2021/01/28       <mdl 0.4<="" td="">       9.00       No         Dimethoate (μg/L) - TW1       2021/01/28       <mdl 0.06<="" td="">       20.00       No         Dimethoate (μg/L) - TW2       2021/01/28       <mdl 0.06<="" td="">       20.00       No         Diquat (μg/L) - TW1       2021/01/28       <mdl 1.0<="" td="">       70.00       No         Diquat (μg/L) - TW2       2021/01/28       <mdl 1.0<="" td="">       70.00       No</mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl>	,	2021/01/28	<mdl 0.33<="" td=""><td>14.00</td><td>No</td></mdl>	14.00	No
(Methylene Chloride) (μg/L) - TW2 <mdl 0.35<="" td="">       50.00       No         2,4-Dichlorophenol (μg/L) - TW1       2021/01/28       <mdl 0.15<="" td="">       900.00       No         2,4-Dichlorophenol (μg/L) - TW2       2021/01/28       <mdl 0.15<="" td="">       900.00       No         2,4-Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW1       2021/01/28       <mdl 0.19<="" td="">       100.00       No         2,4-Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW2       2021/01/28       <mdl 0.19<="" td="">       100.00       No         Diclofop-methyl (μg/L) - TW2       2021/01/28       <mdl 0.4<="" td="">       9.00       No         Diclofop-methyl (μg/L) - TW2       2021/01/28       <mdl 0.4<="" td="">       9.00       No         Dimethoate (μg/L) - TW1       2021/01/28       <mdl 0.06<="" td="">       20.00       No         Dimethoate (μg/L) - TW2       2021/01/28       <mdl 0.06<="" td="">       20.00       No         Diquat (μg/L) - TW1       2021/01/28       <mdl 1.0<="" td="">       70.00       No         Diquat (μg/L) - TW2       2021/01/28       <mdl 1.0<="" td="">       70.00       No</mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl></mdl>	(Methylene Chloride) (μg/L)	2021/01/28	<mdl 0.35<="" td=""><td>50.00</td><td>No</td></mdl>	50.00	No
TW1  2,4-Dichlorophenol (μg/L) - TW2  2,4-Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW1  2,4-Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW1  2,4-Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW1  2,4-Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW2  Diclofop-methyl (μg/L) - TW1  Diclofop-methyl (μg/L) - TW1  Diclofop-methyl (μg/L) - TW2  Dimethoate (μg/L) - TW1  Dimethoate (μg/L) - TW1  Diquat (μg/L) - TW2  Diquat (μg/L) - TW2  CO21/01/28  CMDL 0.19  100.00  No	(Methylene Chloride) (μg/L)	2021/01/28	<mdl 0.35<="" td=""><td>50.00</td><td>No</td></mdl>	50.00	No
TW2  2,4-Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW1  2,4-Dichlorophenoxy acetic acid (2,4-D) (μg/L) - TW2  Diclofop-methyl (μg/L) - TW2  Dimethoate (μg/L) - TW1  2021/01/28 <mdl 0.19="" 100.00="" no="" no<="" td=""><td></td><td>2021/01/28</td><td><mdl 0.15<="" td=""><td>900.00</td><td>No</td></mdl></td></mdl>		2021/01/28	<mdl 0.15<="" td=""><td>900.00</td><td>No</td></mdl>	900.00	No
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		2021/01/28	<mdl 0.15<="" td=""><td>900.00</td><td>No</td></mdl>	900.00	No
acid (2,4-D) (μg/L) - TW2 <mdl 0.19<="" td="">       NO         Diclofop-methyl (μg/L) - TW1       2021/01/28       <mdl 0.4<="" td="">       9.00       No         Diclofop-methyl (μg/L) - TW2       2021/01/28       <mdl 0.4<="" td="">       9.00       No         Dimethoate (μg/L) - TW1       2021/01/28       <mdl 0.06<="" td="">       20.00       No         Dimethoate (μg/L) - TW2       2021/01/28       <mdl 0.06<="" td="">       20.00       No         Diquat (μg/L) - TW1       2021/01/28       <mdl 1.0<="" td="">       70.00       No         Diquat (μg/L) - TW2       2021/01/28       <mdl 1.0<="" td="">       70.00       No</mdl></mdl></mdl></mdl></mdl></mdl></mdl>	-	2021/01/28	<mdl 0.19<="" td=""><td>100.00</td><td>No</td></mdl>	100.00	No
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-	2021/01/28	<mdl 0.19<="" td=""><td>100.00</td><td>No</td></mdl>	100.00	No
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		2021/01/28	<mdl 0.4<="" td=""><td>9.00</td><td>No</td></mdl>	9.00	No
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7 (10.7			9.00	No
Diquat (μg/L) - TW1       2021/01/28 <mdl 1.0<="" th="">       70.00       No         Diquat (μg/L) - TW2       2021/01/28       <mdl 1.0<="" td="">       70.00       No</mdl></mdl>					No
Diquat (μg/L) - TW2 2021/01/28 <mdl 1.0="" 70.00="" no<="" td=""><td></td><td></td><td></td><td></td><td></td></mdl>					
Diuron (μg/L) - TW1   2021/01/28   <mdl 0.03="" 150.00="" no<="" td=""  =""><td></td><td></td><td></td><td></td><td></td></mdl>					
Diuron (μg/L) - TW2 2021/01/28 <mdl 0.03="" 150.00="" no<="" td=""><td></td><td></td><td></td><td></td><td></td></mdl>					
Glyphosate (μg/L) - TW1 2021/01/28 <mdl 1.0="" 280.00="" no<="" td=""><td></td><td></td><td></td><td></td><td></td></mdl>					
Glyphosate (µg/L) - TW2 2021/01/28 <mdl 1.0="" 280.00="" no<="" td=""><td></td><td></td><td></td><td></td><td></td></mdl>					
Malathion (μg/L) - TW1       2021/01/28 <mdl 0.02<="" th="">       190.00       No         Malathion (μg/L) - TW2       2021/01/28       <mdl 0.02<="" td="">       190.00       No</mdl></mdl>					

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Parameter & Location	Sample Date <sup>6A</sup> (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Metolachlor (μg/L) - TW1	2021/01/28	<mdl 0.01<="" td=""><td>50.00</td><td>No</td></mdl>	50.00	No
Metolachlor (μg/L) - TW2	2021/01/28	<mdl 0.01<="" td=""><td>50.00</td><td>No</td></mdl>	50.00	No
Metribuzin (μg/L) - TW1	2021/01/28	<mdl 0.02<="" td=""><td>80.00</td><td>No</td></mdl>	80.00	No
Metribuzin (μg/L) - TW2	2021/01/28	<mdl 0.02<="" td=""><td>80.00</td><td>No</td></mdl>	80.00	No
Monochlorobenzene (Chlorobenzene) (μg/L) - TW1	2021/01/28	<mdl 0.3<="" td=""><td>80.00</td><td>No</td></mdl>	80.00	No
Monochlorobenzene (Chlorobenzene) (μg/L) - TW2	2021/01/28	<mdl 0.3<="" td=""><td>80.00</td><td>No</td></mdl>	80.00	No
Paraquat (μg/L) - TW1	2021/01/28	<mdl 1.0<="" td=""><td>10.00</td><td>No</td></mdl>	10.00	No
Paraquat (μg/L) - TW2	2021/01/28	<mdl 1.0<="" td=""><td>10.00</td><td>No</td></mdl>	10.00	No
PCB (μg/L) - TW1	2021/01/28	<mdl 0.04<="" td=""><td>3.00</td><td>No</td></mdl>	3.00	No
PCB (μg/L) - TW2	2021/01/28	<mdl 0.04<="" td=""><td>3.00</td><td>No</td></mdl>	3.00	No
Pentachlorophenol (μg/L) - TW1	2021/01/28	<mdl 0.15<="" td=""><td>60.00</td><td>No</td></mdl>	60.00	No
Pentachlorophenol (μg/L) - TW2	2021/01/28	<mdl 0.15<="" td=""><td>60.00</td><td>No</td></mdl>	60.00	No
Phorate (μg/L) - TW1	2021/01/28	<mdl 0.01<="" td=""><td>2.00</td><td>No</td></mdl>	2.00	No
Phorate (μg/L) - TW2	2021/01/28	<mdl 0.01<="" td=""><td>2.00</td><td>No</td></mdl>	2.00	No
Picloram (µg/L) - TW1	2021/01/28	<mdl 1.0<="" td=""><td>190.00</td><td>No</td></mdl>	190.00	No
Picloram (μg/L) - TW2	2021/01/28	<mdl 1.0<="" td=""><td>190.00</td><td>No</td></mdl>	190.00	No
Prometryne (μg/L) - TW1	2021/01/28	<mdl 0.03<="" td=""><td>1.00</td><td>No</td></mdl>	1.00	No
Prometryne (μg/L) - TW2	2021/01/28	<mdl 0.03<="" td=""><td>1.00</td><td>No</td></mdl>	1.00	No
Simazine (μg/L) - TW1	2021/01/28	<mdl 0.01<="" td=""><td>10.00</td><td>No</td></mdl>	10.00	No
Simazine (μg/L) - TW2	2021/01/28	<mdl 0.01<="" td=""><td>10.00</td><td>No</td></mdl>	10.00	No
Terbufos (μg/L) - TW1	2021/01/28	<mdl 0.01<="" td=""><td>1.00</td><td>No</td></mdl>	1.00	No
Terbufos (μg/L) - TW2	2021/01/28	<mdl 0.01<="" td=""><td>1.00</td><td>No</td></mdl>	1.00	No
Tetrachloroethylene (μg/L) - TW1	2021/01/28	<mdl 0.35<="" td=""><td>10.00</td><td>No</td></mdl>	10.00	No
Tetrachloroethylene (μg/L) - TW2	2021/01/28	<mdl 0.35<="" td=""><td>10.00</td><td>No</td></mdl>	10.00	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW1	2021/01/28	<mdl 0.2<="" td=""><td>100.00</td><td>No</td></mdl>	100.00	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW2	2021/01/28	<mdl 0.2<="" td=""><td>100.00</td><td>No</td></mdl>	100.00	No
Triallate (μg/L) - TW1	2021/01/28	<mdl 0.01<="" td=""><td>230.00</td><td>No</td></mdl>	230.00	No
Triallate (μg/L) - TW2	2021/01/28	<mdl 0.01<="" td=""><td>230.00</td><td>No</td></mdl>	230.00	No

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Parameter & Location	Sample Date <sup>6A</sup> (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Trichloroethylene (μg/L) - TW1	2021/01/28	<mdl 0.44<="" td=""><td>5.00</td><td>No</td></mdl>	5.00	No
Trichloroethylene (μg/L) - TW2	2021/01/28	<mdl 0.44<="" td=""><td>5.00</td><td>No</td></mdl>	5.00	No
2,4,6-Trichlorophenol (μg/L) - TW1	2021/01/28	<mdl 0.25<="" td=""><td>5.00</td><td>No</td></mdl>	5.00	No
2,4,6-Trichlorophenol (μg/L) - TW2	2021/01/28	<mdl 0.25<="" td=""><td>5.00</td><td>No</td></mdl>	5.00	No
2-methyl-4- chlorophenoxyacetic acid (MCPA) (µg/L) - TW1	2021/01/28	<mdl 0.12<="" td=""><td>100.00</td><td>No</td></mdl>	100.00	No
2-methyl-4- chlorophenoxyacetic acid (MCPA) (μg/L) - TW2	2021/01/28	<mdl 0.12<="" td=""><td>100.00</td><td>No</td></mdl>	100.00	No
Trifluralin (μg/L) - TW1	2021/01/28	<mdl 0.02<="" td=""><td>45.00</td><td>No</td></mdl>	45.00	No
Trifluralin (μg/L) - TW2	2021/01/28	<mdl 0.02<="" td=""><td>45.00</td><td>No</td></mdl>	45.00	No
Vinyl Chloride (μg/L) - TW1	2021/01/28	<mdl 0.17<="" td=""><td>1.00</td><td>No</td></mdl>	1.00	No
Vinyl Chloride (μg/L) - TW2	2021/01/28	<mdl 0.17<="" td=""><td>1.00</td><td>No</td></mdl>	1.00	No
Trihalomethane: Total Annual Average (µg/L) - DW	4 Quarters of 2022	17.5	100.00	No
Haloacetic Acid: Total Annual Average (μg/L) - DW	4 Quarters of 2022	< 5.3	80.00	No

Note: TW = Treated Water, DW = Distribution Water, MDL = Minimum Detection Limit, MAC = Maximum Allowable Concentration, HAA = Haloacetic Acids

Note: TW1 refers to the Powerline Treatment Pumphouse located at 700 Veterans Way in Wasaga Beach, Ontario; TW2 refers to the Jenetta Treatment Pumphouse located at 17 Spruce Street, Wasaga Beach, Ontario.

<sup>6A</sup>Organic Parameters (Schedule 24) are required to be tested every 36 months for a large municipal residential system, if the system obtains water from a raw water supply that is ground water (O. Reg 170/03 Schedule 13-4.(b)). The last set of samples was collected and tested in 2021, the next set of samples is scheduled to be collected and tested in 2024.

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Table 7: List of Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards for the reporting period.

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result
N/A	N/A	N/A