

Water Supply and Distribution System

### **Bass Lake Woodlands 2023 Annual Report**

### **ANNUAL REPORT**

Drinking-Water System Number: Drinking-Water System Name: Drinking-Water System Owner: Drinking-Water System Category: Period being reported:

220005143
Bass Lake Woodlands Water Supply and Distribution
The Corporation of the Township of Severn
Large Municipal Residential
January 1, 2023, to December 31, 2023

Complete if your Category is Large Municipal	Complete for all other Categories.
Residential or Small Municipal Residential	
Doog wayn Duinking Water System sawy	Number of Designated Facilities served.
Does your Drinking-Water System serve	Number of Designated Facilities served:
more than 10,000 people? Yes [ ] No [X]	
Is your annual report available to the public	Did you provide a copy of your annual
v =	1
at no charge on a web site on the Internet?	report to all Designated Facilities you
Yes [X] No [ ]	serve?
	Yes [ ] No [ ]
Logation whose Commencery Domont no govined	
Location where Summary Report required	
under O. Reg. 170/03 Schedule 22 will be	Number of Interested Authorities you
available for inspection.	report to:
Township of Severn Administrative Office	D:1 :1 :
1024 Hurlwood Lane	Did you provide a copy of your annual
	report to all Interested Authorities you
Severn, Ontario	report to for each Designated Facility?
L3V 0Y6	, <u>,</u>
	Yes [ ] No [ ]
1 1	

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 their drinking water from your system:

<b>Drinking Water System Name</b>	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 sys	em users that your annu	ıal report is available and	is free of
charge.			

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	IXI	Public	access	notice	via	tne	wen

[XL]	Public	access	notice	via	Government	Office
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[ ] Public access/notice via a newspaper

[X] Public access/notice via Public Request

Public access/notice via a Public Library

| | Public access/notice via other method

### **Describe your Drinking-Water System**

Water for Bass Lake Woodlands comes from three (3) ground water wells located at 1852 Ridley Boulevard. Groundwater is pumped from the well into the pump house where it is chlorinated using sodium hypochlorite. It then travels through a 32 m³ chlorine contact tank before being stored in a 136 m³ underground reservoir. Treated water is pumped from the reservoir by three VFD-controlled vertical turbine high lift pumps to the distribution system. The distribution system is comprised of 150 mm PVC water main with copper and PE service lines to the homes. There are four (4) sample stations and three (3) blow-offs located throughout the distribution system. There are no fire hydrants. The system services approximately 162 residential homes in the community Bass Lake Woodlands.

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

Sodium I	-Typoch	ılorite
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#### Were any significant expenses incurred to?

[ ] Install required equipment

[X] Repair required equipment

[X] Replace required equipment

#### Please provide a brief description and a breakdown of monetary expenses incurred.

Reservoir Inspection-\$3950.00

Engineering for 2 new wells. Installation in 2024-\$400,000.00

Piping Rehab-\$3800.00

## 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

Incident Date	Parameter	Result	Unit of Measure	<b>Corrective Action</b>	Corrective Action Date
October 27, 2023	Sodium	57.8	Mg/L	Public Notice	November 1, 2023

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 Or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw – Well #1	52	0 - 0	0-6	N/A	-
Raw – Well #2	52	0 - 0	0 - 39	N/A	-
Raw – Well #3	52	0 - 0	0 – 3	N/A	-
Treated	52	0 - 0	0 - 0	52	0-10
Distribution	104	0 - 0	0 - 0	104	0 - 420

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the

period covered by this Annual Report.

period covered by t	iiis /xiiiiuai i	rchort.
	Number of Grab	Range of Results (min #)-(max #)
	Samples	
Turbidity – Well #1	12	0.28 – 0.94 NTU
Turbidity – Well #2	12	0.07 – 0.59 NTU
Turbidity – Well #3	12	0.03 – 0.18 NTU
Turbidity	8760	0.05 – 0.19 NTU
Chlorine	8760	1.09 - 1.47
Chlorine Free	364	0.96 - 1.45
Residual		
<b>Distribution System</b>		
Fluoride (If the DWS provides fluoridation)	N/A	

**NOTE**: For continuous monitors use 8760 as the number of samples.

**NOTE**: Record the unit of measure if it is **not** milligrams per litre.

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
N/A				

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

**Parameter** Sample Date Result Value **Unit of Measure** Exceedance October 23, 2023 μg/L Antimony 0.6 No Arsenic October 23, 2023 μg/L 0.2 No Barium October 23, 2023 283 No μg/L Boron October 23, 2023 19 μg/L No October 23, 2023 Cadmium 0.003 μg/L No

### Ontario Drinking-Water Systems Regulation O. Reg. 170/03

Chromium	October 23, 2023	1.38	μg/L	No
*Lead	Jan 23-July 24, 2023	0.02-0.17	μg/L	No
Mercury	October 23, 2023	0.01	μg/L	No
Selenium	October 23, 2023	0.12	μg/L	No
Sodium	October 23, 2023	57.8	mg/L	Yes
Uranium	October 23, 2023	0.221	μg/L	No
Fluoride	April 24, 2023	0.06	mg/L	No
Nitrite	January 23, 2023	0.003	mg/L	No
	April 24, 2023	0.003		
	July 24, 2023	0.003		
	Oct. 23, 2023	0.003		
Nitrate	January 23, 2023	1.80	mg/L	No
	April 24, 2023	1.91		
	July 24, 2023	1.66		
	Oct. 23, 2023	1.77		

<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)

<b>Location Type</b>	Number of Samples	Range of Lead Results (min#) – (max #)	Number of Exceedances
Plumbing	N/A		
Distribution	2	0.03-0.17	NO

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

Parameter	Sample Date	Result Value	Unit of Measu	Exceedance
			re	
Alachlor	October 23,2023	0.02	μg/L	No
Atrazine + N-dealkylated metobolites	October 23,2023	0.01	μg/L	No
Atrazine	October 23,2023	0.01	μg/L	No
Azinphos-methyl	October 23,2023	0.05	μg/L	No
Benzene	October 23,2023	0.32	μg/L	No
Benzo(a)pyrene	October 23,2023	0.004	μg/L	No
Bromoxynil	October 23,2023	0.33	μg/L	No
Bromoform	October 23,2023	0.57	μg/L	No
Bromodichloromethane	October 23,2023	3.8	μg/L	No
Bromoacetic Acid	October 23,2023	2.9	μg/L	No
Carbaryl	October 23,2023	0.05	μg/L	No
Carbon tetrachloride	October 23,2023	0.17	μg/L	No
Carbofuran	October 23,2023	0.01	μg/L	No

# Ontario Drinking-Water Systems Regulation O. Reg. 170/03

Chlorpyrifos	Oatobar 22 2022	0.02	по/Т	No
Chloroform	October 23,2023	3.5	μg/L	No No
Chloroacetic Acid	October 23,2023	4.7	μg/L	No No
Diazinon	October 23,2023		μg/L	No No
Diazinon Dicamba	October 23,2023	0.02	μg/L	
	October 23,2023	0.20	μg/L	No
1,2-Dichlorobenzene	October 23,2023	0.41	μg/L	No
1,4-Dichlorobenzene 1,2 Dichlorobenzene	October 23,2023	0.36	μg/L	No
1,2-Dichloroethane	October 23,2023	0.41	μg/L	No
1,1-Dichloroethylene	October 23,2023	0.35	μg/L	No
(vinylidene chloride)	October 23,2023	0.33	μg/L	No
Dichloromethane	October 23,2023	0.35	μg/L	No
2-4 Dichlorophenol	October 23,2023	0.35	μg/L μg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	October 23,2023	0.19	μg/L	No
Diclofop-methyl	October 23,2023	0.40	μg/L μg/L	No
Dimethoate	October 23,2023	0.06	μg/L	No
Diquat	October 23,2023	<1	μg/L	No
Diuron	October 23,2023	0.03	μg/L	No
Dibromochloromethane	October 23,2023	3.2	μg/L	No
Dichloroacetic Acid	October 23,2023	2.6	μg/L	No
Dibromoacetic Acid	October 23,2023	2.0	μg/L	No
Desethyl atrazine	October 23,2023	0.01	μg/L	No
Glyphosate	October 23,2023	1	μg/L	No
Haloacetic Acids (HAA5)	2023 Average	<5.3	μg/L	No
(NOTE: show latest annual average)		2.0		
Malathion	October 23,2023	.02	μg/L	No
Metolachlor	October 23,2023	0.01	μg/L	No
Metribuzin	October 23,2023	0.02	μg/L	No
MCPA	October 23,2023	0.00012	mg/L	No
Monochlorobenzene	October 23,2023	0.3	μg/L	No
Paraquat	October 23,2023	<1	μg/L	No
Pentachlorophenol	October 23,2023	0.15	μg/L	No
Phorate	October 23,2023	0.01	μg/L	No
Picloram	October 23,2023	<1	μg/L	No
Polychlorinated Biphenyls (PCB)	October 23,2023	0.04	μg/L	No
Prometryne	October 23,2023	0.03	μg/L	No
Simazine	October 23,2023	0.01	μg/L	No
THM (NOTE: show latest annual average)	2023 Average	8.20	μg/L	No
Terbufos	October 23,2023	0.01	μg/L	No
Tetrachloroethylene	October 23,2023	0.35	μg/L	No
2,3,4,6-Tetrachlorophenol	October 23,2023	0.20	μg/L	No
Triallate	October 23,2023	0.01	μg/L	No
Trichloroethylene	October 23,2023	0.44	μg/L	No
2,4,6-Trichlorophenol	October 23,2023	0.25	μg/L	No
Trifluralin	October 23,2023	0.02	μg/L	No
Trichloroacedic Acid	October 23,2023	5.3	μg/L	No
Vinyl Chloride	October 23,2023	0.17	μg/L	No



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

Parameter	Result Value	Unit of Measure	Date of Sample
Sodium	57.8	mg/L	October 27, 2023