

Water Supply and Distribution System

### West Shore 2021 Annual Report

#### **ANNUAL REPORT**

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

260061958
West Shore Treatment and Distribution
The Corporation of the Township of Severn
Large Municipal Residential
January 1, 2021, to December 31, 2021

Complete if your Category is Large Municipal Residential or Small Municipal Residential	Complete for all other Categories.
Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [X]	Number of Designated Facilities served:
Is your annual report available to the public at no charge on a web site on the Internet?  Yes [X]  No [ ]	Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]
Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.	Number of Interested Authorities you report to:
Township of Severn Administrative Office 1024 Hurlwood Lane Severn, Ontario L3V 0Y6	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 their drinking water from your system:

System.	
<b>Drinking Water System Name</b>	<b>Drinking Water System Number</b>
West Shore Beach Club Distribution System	260095641

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 [X] No [ ]

charge.	
[X] Public access/notice via the web	
[X] Public access/notice via Government Office	
Public access/notice via a newspaper	
[X] Public access/notice via Public Request	
[A] Fublic access/hotice via Fublic Request [ ] Public access/notice via a Public Library	
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[ ] Public access/notice via other method	
Describe your Drinking-Water System	
Water for the West Shore water treatment plant is pumped from Lake Couchiching, via three	e
low lift pumps located at 3491 Hedgemere Landing, to a package water treatment plant	
located at 3333 New Brailey Line. The treatment plant consists of a conventional two-train	
coagulation, flocculation, sedimentation, and filtration plant. Filtered water flows through	
granular activated carbon tanks for taste and odor removal before being disinfected by	
ultraviolet light and sodium hypochlorite. Water is then stored in a 1,910 m <sup>3</sup> concrete	
underground reservoir. Backwash water from the filters is sent directly to the sanitary	
sewage system. Three high lift pumps provide water to the distribution system. The	
distribution system was constructed in 2005 and consists of PVC water main with PE service	ne.
piping. There are 12 sample stations, 127 fire hydrants and 7 private hydrants connected to	
the distribution system. The West Shore system services approximately 901 residential and	
commercial properties as well as supplying water to 86 homes in the West Shore Beach Clu	
commercial properties as well as supplying water to 80 nomes in the west shore beach Cit	υ.
List all water treatment chemicals used over this reporting period.	
Sodium Hypochlorite	
Alum	
ClearFloc AP1065 polymer	
Were any significant expenses incurred to?	
[ ] Install required equipment	
Repair required equipment	
[X] Replace required equipment	
Please provide a brief description and a breakdown of monetary expenses incurred	
Rebuilt high lift #2- \$35,000.00.	
Fire flow testing- \$20,000.00	
Installed two new Trojan UV systems- \$210,000.00.	

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

<b>Incident Date</b>	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
N/A					

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	52	0 - 20	0 - 560	N/A	N/A
Treated	52	0 - 0	0 - 0	51	0 – 1
Distribution	178	0 - 0	0 - 0	80	0 - 10

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

period covered by this Annual Report.

	Number of	Range of Results
	Grab	(min #)-(max #)
	Samples	
Turbidity – Train 1	8760	0.02 – 0.13 NTU
Turbidity – Train 2	8760	0.09 - 0.20  NTU
Turbidity	8760	0.05 – 0.19 NTU
Chlorine	8760	1.24 - 1.91
Chlorine Free		
Residual	364	0.95 - 1.88
Distribution System		
Fluoride (If the DWS provides fluoridation)	1	0.06

**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.

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

Parameter	Sample Date	Result Value	<b>Unit of Measure</b>	Exceedance
Antimony	October 28, 2021	0.6	μg/L	No
Arsenic	October 28, 2021	0.3	μg/L	No
Barium	October 28, 2021	26.2	μg/L	No
Boron	October 28, 2021	21	μg/L	No
Cadmium	October 28, 2021	0.003	μg/L	No
Chromium	October 28, 2021	0.23	μg/L	No
*Lead	Jan 25-July 26,	0.04-0.54	μg/L	No
	2021			
Mercury	October 27, 2021	0.01	μg/L	No
Selenium	October 28, 2021	0.04	μg/L	No
Sodium	October 25, 2021	37.5	mg/L	Yes
Uranium	October 28, 2021	0.018	μg/L	No
Fluoride	April 26, 2021	0.06	mg/L	No
Nitrite	January 25, 2021	< 0.003	mg/L	No
	April 26, 2021	< 0.003		
	July 26, 2021	< 0.003		
	October 25, 2021	< 0.003		
Nitrate	January 25, 2021	0.104	mg/L	No
	April 26, 2021	0.073		
	July 26, 2021	0.059		
	October 25, 2021	0.049		

<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 of Samples	Range of Lead Results (min#) – (max #)	Number of Exceedances
Plumbing	22	0.08-0.68	0
Distribution	4	0.92 - 2.42	0

<sup>\*</sup>Note: Lead sample results are from the Westshore Beach Club Distribution System DWS# 260095641\*

### Summary of Organic parameters sampled during this reporting period or the most

recent sample results.

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	October 28, 2021	0.02	μg/L	No
Atrazine + N-dealkylated metobolites	October 28, 2021	0.01	μg/L	No
Azinphos-methyl	October 28, 2021	0.05	μg/L	No
Benzene	October 26, 2021	0.32	μg/L	No
Benzo(a)pyrene	October 28, 2021	0.004	μg/L	No
Bromoxynil	Nov 2, 2021	0.33	μg/L	No

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

Carbaryl	October 28, 2021	0.05	μg/L	No
Carbofuran	October 28, 2021	0.01	μg/L	No
Carbon Tetrachloride	October 26, 2021	0.17	μg/L	No
Chlorpyrifos	October 28, 2021	0.02	μg/L	No
Diazinon	October 28, 2021	0.02	μg/L	No
Dicamba	Nov 2, 2021	0.20	μg/L	No
1,2-Dichlorobenzene	October 26, 2021	0.41	μg/L	No
1,4-Dichlorobenzene	October 26, 2021	0.36	μg/L	No
1,2-Dichloroethane	October 26, 2021	0.35	μg/L	No
1,1-Dichloroethylene	October 26, 2021	0.33	μg/L	No
(vinylidene chloride)				
Dichloromethane	October 26 2021	0.35	μg/L	No
2-4 Dichlorophenol	Nov 2, 2021	0.15	μg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Nov 2, 2021	0.19	μg/L	No
Diclofop-methyl	Nov 2, 2021	0.40	μg/L	No
Dimethoate	October 28, 2021	0.06	μg/L	No
Diquat	Nov 2, 2021	<1	μg/L	No
Diuron	October 28, 2021	0.03	μg/L	No
Glyphosate	Nov 1, 2021	<1	μg/L	No
Haloacetic Acids (HAA5)	2021 Average	26.68	μg/L	No
(NOTE: show latest annual average)				
Malathion	October 28, 2021	0.02	μg/L	No
MCPA	Nov 2, 2021	0.00012	mg/L	No
Metolachlor	October 28, 2021	0.01	μg/L	No
Metribuzin	October 28, 2021	0.02	μg/L	No
Monochlorobenzene	October 26, 2021	0.3	ug/L	No
Paraquat	Nov 2, 2021	<1	μg/L	No
Pentachlorophenol	Nov 2, 2021	0.15	μg/L	No
Phorate	October 28, 2021	0.01	μg/L	No
Picloram	Nov 2, 2021	<1	μg/L	No
Polychlorinated Biphenyls(PCB)	October 29, 2021	0.04	μg/L	No
Prometryne	October 28, 2021	0.03	μg/L	No
Simazine	October 28, 2021	0.01	μg/L	No
THM	2021 Average	41.75	μg/L	No
(NOTE: show latest annual average)	0 1 20 2021	0.01		NT.
Terbufos	October 28, 2021	0.01	μg/L	No
Tetrachloroethylene	October 26, 2021	0.35	μg/L	No
2,3,4,6-Tetrachlorophenol	Nov 2, 2021	0.20	μg/L	No
Triallate	October 28, 2021	0.01	μg/L	No
Trichloroethylene	October 26, 2021	0.44	μg/L	No
2,4,6-Trichlorophenol	Nov 2, 2021	0.25	μg/L	No
Trifluralin	October 28, 2021	0.02	μg/L	No
Vinyl Chloride	October 26, 2021	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	37.5	mg/L	October 25, 2021