



ANNUAL REPORT

Drinking-Water System Number:	220005161
Drinking-Water System Name:	Washago Water Supply and Distribution
Drinking-Water System Owner:	The Corporation of the Township of Severn
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2024, to December 31, 2024

<u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u>	<u>Complete for all other Categories.</u>
Does your Drinking-Water System serve more than 10,000 people? Yes [] No [X]	Number of Designated Facilities served: <input type="text"/>
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. <div>Township of Severn Administrative Office 1024 Hurlwood Lane Severn, Ontario L3V 0Y6</div>	Number of Interested Authorities you report to: <input type="text"/> 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:

Drinking Water System Name	Drinking Water System Number
Ramara Knob Hill / Somerset	260046137

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 []



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

☒ Public access/notice via the web

☒ Public access/notice via Government Office

☐ Public access/notice via a newspaper

☒ 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 the Washago water treatment plant is pumped from Lake Couchiching to a package water treatment plant located on Quetton Street. Chlorine dioxide and SternPAC are added prior to direct filtration. Filtration is provided by two (2) trains of pressure type depth filters and clarifiers, followed by GAC filtration. Filtered water is chlorinated and then sent to a 257 m³, three-cell, baffled concrete underground reservoir for storage. Backwash water from the clarifiers and filters is sent directly to the sanitary sewage system. The distribution system was constructed in the 1980's and consists of PVC piping with a recirculation line connecting all dead ends. There are 11 fire hydrants and four sample stations connected to the distribution system. The Washago water system serves approximately 124 residential homes in the village of Washago in the Township of Severn and 20 houses in the Township of Ramara.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite

Stern PAC

Sodium Chlorite

Hydrochloric Acid

Were any significant expenses incurred to?

☐ Install required equipment.

☒ Repair required equipment

☐ Replace required equipment.

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

No Capital Projects for 2024

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	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	53	0 – 40	0 – 740	N/A	N/A
Treated	53	0 – 0	0 – 0	53	0 – 10
Distribution	107	0 – 0	0 – 0	106	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 Grab Samples	Range of Results (min #)-(max #)
Turbidity – Train 1	8760	0.03 – 0.17 NTU
Turbidity – Train 2	8760	0.03 – 0.18 NTU
Turbidity	8760	0.03 – 0.27 NTU
Chlorine	8760	1.19 – 1.93
Chlorine Free Residual Distribution Supply	368	0.82 – 1.86
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
July 16, 2012 Replaced June of 2021	Chlorite	Jan. 2, 2024	0.03	mg/L
		Feb. 5, 2024	0.01	
		March 4, 2024	0.01	
		April 2, 2024	0.01	
		May 6, 2024	0.01	
		June 3, 2024	0.01	
		July 2, 2024	0.06	
		Aug 6, 2024	0.02	
		Sept. 16, 2024	0.01	
		Oct 7, 2024	0.04	
		Nov. 4, 2024	0.012	
		Dec. 9, 2024	0.01	
July 16, 2012 Replaced June of 2021	Chlorate	Jan 2, 2024	0.32	mg/L
		Feb. 5, 2024	0.36	
		March 4, 2024	0.64	
		April 2, 2024	0.57	
		May 6, 2024	0.48	
		June 3, 2024	0.32	
		July 2, 2024	0.49	
		Aug 6, 2024	0.74	
		Sept. 16, 2024	0.52	
		Oct 7, 2023	0.41	
		Nov. 4, 2024	0.53	
		Dec. 9, 2024	0.40	
N/A	Microcystins	June 1 to Oct 31, 2024	0.01 – 0.01ug/L	ug/L

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	October 21, 2024	0.6	µg/L	No
Arsenic	October 21, 2024	0.3	µg/L	No
Barium	October 21, 2024	22.3	µg/L	No
Boron	October 21, 2024	18	µg/L	No
Cadmium	October 21, 2024	0.004	µg/L	No
Chromium	October 21, 2024	0.10	µg/L	No
*Lead	Jan. 22-July 22, 2024	0.35 -0.36	µg/L	No
Mercury	October 21, 2024	0.01	µg/L	No
Selenium	October 21, 2024	0.04	µg/L	No
Sodium	October 21, 2024	38.5	mg/L	Yes
Uranium	October 21, 2024	0.039	µg/L	No
Nitrite	Jan. 22, 2024	0.003	mg/L	No
	April 22, 2024	0.003		
	July 22, 2024	0.003		
	October 21, 2024	0.003		
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Nitrate	Jan. 22, 2024	0.074	mg/L	No
	April 22, 2024	0.046		
	July 22, 2024	0.085		
	October 21, 2024	0.038		

*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			
Distribution	2	0.35-0.36	0

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 21, 2024	0.02	µg/L	No
Atrazine + N-dealkylated metabolites	October 21, 2024	0.01	µg/L	No
Azinphos-methyl	October 21, 2024	0.05	µg/L	No
Atrazine	October 21, 2024	0.01	µg/L	No
Benzene	October 21, 2024	0.32	µg/L	No
Bromodichloromethane	October 21, 2024	12	µg/L	No
Bromoform	October 21, 2024	0.34	µg/L	No
Bromoacetic Acid	October 21, 2024	2.9	µg/L	No
Benzo(a)pyrene	October 21, 2024	0.04	µg/L	No
Carbaryl	October 21, 2024	0.05	µg/L	No
Carbofuran	October 21, 2024	0.01	µg/L	No
Carbon Tetrachloride	October 21, 2024	0.17	µg/L	No
Chlorpyrifos	October 21, 2024	0.02	µg/L	No
Chloroacetic Acid	October 21, 2024	4.7	µg/L	No
Chloroform	October 21, 2024	32	µg/L	No
Diazinon	October 21, 2024	0.02	µg/L	No
Dicamba	October 21, 2024	0.20	µg/L	No
1,2-Dichlorobenzene	October 21, 2024	0.41	µg/L	No
1,4-Dichlorobenzene	October 21, 2024	0.36	µg/L	No
1,2-Dichloroethane	October 21, 2024	0.35	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	October 21, 2024	0.33	µg/L	No
Dichloromethane	October 21, 2024	0.35	µg/L	No
2,4 Dichlorophenol	October 21, 2024	0.15	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	October 21, 2024	0.19	µg/L	No
Diclofop-methyl	October 21, 2024	0.40	µg/L	No
Dimethoate	October 21, 2024	0.06	µg/L	No
Desethyl atrazine	October 21, 2024	0.01	µg/L	No
Diuron	October 21, 2024	0.03	µg/L	No
Dibromoacetic Acid	October 21, 2024	2	µg/L	No
Dichloroacetic Acid	October 21, 2024	14.9	µg/L	No
Diquat	October 21, 2024	<1	µg/L	No
Dibromochloromethane	October 21, 2024	2.5	µg/L	No
Glyphosate	October 21, 2024	<1	µg/L	No
Haloacetic Acids (HAA5) (NOTE: show latest annual average)	2024 Average	31.6	µg/L	No
Malathion	October 21, 2024	0.02	µg/L	No
MCPA	October 21, 2024	0.00012	mg/L	No
Metolachlor	October 21, 2024	0.01	µg/L	No
Metribuzin	October 21, 2024	0.02	µg/L	No



Monochlorobenzene	October 21, 2024	0.3	µg/L	No
Paraquat	October 21, 2024	<1	µg/L	No
Pentachlorophenol	October 21, 2024	0.15	µg/L	No
Phorate	October 21, 2024	0.01	µg/L	No
Picloram	October 21, 2024	<1	µg/L	No
Polychlorinated Biphenyls(PCB)	October 21, 2024	0.04	µg/L	No
Prometryne	October 21, 2024	0.03	µg/L	No
Simazine	October 21, 2024	0.01	µg/L	No
THM (NOTE: show latest annual average)	2024 Average	54.75	µg/L	No
Terbufos	October 21, 2024	0.01	µg/L	No
Tetrachloroethylene	October 21, 2024	0.35	µg/L	No
2,3,4,6-Tetrachlorophenol	October 21, 2024	0.20	µg/L	No
Triallate	October 21, 2024	0.01	µg/L	No
Trichloroethylene	October 21, 2024	0.44	µg/L	No
2,4,6-Trichlorophenol	October 21, 2024	0.25	µg/L	No
Trifluralin	October 21, 2024	0.02	µg/L	No
Trichloroacetic Acid	October 21, 2024	30.7	µg/L	No
Vinyl Chloride	October 21, 2024	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	38.5	mg/L	October 21, 2024