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ANNUAL REPORT

Drinking-Water System Number:	**220001110**
Drinking-Water System Name:	Coldwater 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

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [X]

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.

Township of Severn Administrative Office
1024 Hurlwood Lane
Severn, Ontario
L3V 0Y6

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 their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Riverwalk Estates Drinking Water System	260095277

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 its drinking water?
Yes [X] 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 Government Office
[ ] 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

The Coldwater water supply system was built in 1994 to replace the spring water supply west of the village. Water now comes from three (3) drilled groundwater wells. Two are located on the pump house property and the third is across the street from the pump house, on private property. In 2008, an addition was completed to the WTP to house two GAC filters, a softener and a backwash settling tank. Raw water is partially softened before passing through the GAC filters (operated in series). Filtered water is then chlorinated using Sodium Hypochlorite. Treated water is stored in a 1,612 m^3 two-cell, concrete, underground reservoir below the pump house. The reservoir provides the required chlorine contact time to achieve primary disinfection before it is distributed to the residents. The treated water is then pumped from the reservoir to the distribution system via a jockey pump and two (2) vertical turbine pumps. A fire pump is also installed to provide adequate flow in the event of a fire. There are 93 fire hydrants, 13 sampling stations and 5 blow-offs connected to the system. The distribution system is comprised of PVC water mains. The system services approximately 690 properties in the Village of Coldwater.

List all water treatment chemicals used over this reporting period.

Sodium Hypochlorite
Softener Salt

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.

New GAC Media-$31,000.00
New Turbidity Analyzer-$7,000.00
New Chlorine Analyzer-$11,000.00

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

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date

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	53	0 – 0	0 – 0	N/A	-
Raw – Well #2	53	0 – 0	0 – 0	N/A	-
Raw – Well #3	53	0 – 0	0 – 0	N/A	-
Treated	53	0 – 0	0 – 0	53	0 – 10
Distribution	165	0 – 0	0 – 0	105	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 – Well #1	12	0.05 – 0.21 NTU
Turbidity – Well #2	12	0.21 – 0.31 NTU
Turbidity – Well #3	12	0.06 – 0.31 NTU
Turbidity	8760	0.14 – 0.74 NTU
Chlorine	8760	0.86– 1.47
Chlorine Free Residual Distribution System	368	0.70– 1.45
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	TSS	Annual Average	4.00	mg/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	0.2	µg/L	No
Atrazine	October,21, 2024	0.01	µg/L	No
Barium	October,21, 2024	242	µg/L	No
Boron	October,21, 2024	56	µg/L	No
Cadmium	October,21, 2024	0.003	µg/L	No
Chromium	October,21, 2024	0.22	µg/L	No
***Lead**	Jan 22- July 22, 2024	0.03-0.18	Cfu/100mL	No
Mercury	October,21, 2024	0.01	µg/L	No
Selenium	October,21, 2024	0.04	µg/L	No
Sodium	October,21, 2024	99.7	mg/L	Yes
Uranium	October,21, 2024	0.792	µg/L	No
Fluoride	April 22, 2024	0.10	mg/L	No
Nitrite	January 22, 2024 April 22, 2024 July 22, 2024 October 21, 2024	<0.003 <0.003 <0.003 <0.003	mg/L	No
Nitrate	January 22, 2024 April 22, 2024 July 22, 2024 October 21, 2024	<0.006 <0.006 <0.006 <0.006	mg/L	No

*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	4	0.03 – 0.04	0

Note: Lead sample results are from the* Riverwalk Estates Drinking Water System. *DWS# 260095277

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 metobolites	October 21,2024	0.01	µg/L	No
Azinphos-methyl	October 21,2024	0.05	µg/L	No
Benzene	October 21,2024	0.32	µg/L	No
Benzo(a)pyrene	October 21,2024	0.004	µg/L	No
Bromoform	October 21,2024	4.6	µg/L	No
Bromodichloromethane	October 21,2024	3.2	µg/L	No
Bromoacetic Acid	October 21,2024	2.9	µg/L	No
Bromoxynil	October 21,2024	0.33	µg/L	No
Carbaryl	October 21,2024	0.05	µg/L	No
Carbofuran	October 21,2024	0.01	µg/L	No
Chlorpyrifos	October 21,2024	0.02	µg/L	No
Carbon Tetrachloride	October 21,2024	0.17	µg/L	No
Chloroform	October 21,2024	.91	µg/L	No
Chloroacetic Acid	October 21,2024	4.7	µg/L	No
Desethyl Atrazine	October 21,2024	0.01	µg/L	No
Diazinon	October 21,2024	0.02	µg/L	No
Dibromochloromethane	October 21,2024	6.4	µg/L	No
Dibromoacetic Acid	October 21,2024	2.8	µg/L	No
Dicamba	October 21,2024	0.20	µg/L	No
Diclofop-methyl	October 21,2024	0.40	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-Dichlorophenoxy acetic acid (2,4-D)	October 21,2024	0.19	µg/L	No
Diclofop-methyl	October 21,2024	2.6	µg/L	No
Dichloroacetic Acid	October 21,2024	0.06	µg/L	No
Dimethoate	October 21,2024	<1	µg/L	No
Diquat	October 21,2024	0.15	µg/L	No
2,4 Dichlorophenol	October 21,2024	<1	µg/L	No
Glyphosate	October 21,2024	0.02	µg/L	No
Haloacetic Acids (HAA5) (NOTE: show latest annual average)	2024 Average	5.3	µg/L	No
Malathion	October 21,2024	0.02	µg/L	No
Metolachlor	October 21,2024	0.01	µg/L	No
Metribuzin	October 21,2024	0.02	µg/L	No
Monochlorobenzene	October 21,2024	0.30	µg/L	No
Paraquat	October 21,2024	<1	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
Pentachlorophenol	October 21,2024	0.15	µg/L	No
Simazine	October 21,2024	0.01	µg/L	No

THM (NOTE: show latest annual average)	2024 Average	11.4	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
Trichloroacetic Acid	October 21,2024	5.3	µg/L	No
Trichloroethylene	October 21,2024	0.49	µg/L	No
2,4,6-Trichlorophenol	October 21,2024	0.25	µg/L	No
Trifluralin	October 21,2024	0.02	µg/L	No
Vinyl Chloride	October 21,2024	0.17	µg/L	No
MCPA	October 21,2024	0.00012	µg/L	No
Diuron	October 21,2024	0.01	µg/L	No
Chloriform	October 21,2024	0.35	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	99.7	mg/L	October 21, 2024