



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	210003351
Drinking-Water System Name:	Rosspport Water Treatment Plant
Drinking-Water System Owner:	Rosspport Local Services Board
Drinking-Water System Category:	Non-municipal Year Round Residential Limited Subsystem – Surface Water
Period being reported:	January 1, 2021 – December 31, 2021

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [] No []</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; height: 100px; width: 100%;"></div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input style="width: 50px;" type="text" value="-0-"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []</p> <p>Number of Interested Authorities you report to: <input style="width: 50px;" type="text" value="-0-"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p>
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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 of their drinking water from your system:

Drinking Water System Name	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 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 – copies are posted on two (2) community bulletin boards and the LSB website: www.rossportlsb.ca

Describe your Drinking-Water System

Raw water for treating is drawn from Lake Superior at Nicol Bay. Prior to distribution, raw water is filtered through one of two slow sand filter units, then chlorinated and stored where chlorine contact time matures. Upon leaving storage, the chlorinated water receives ultraviolet treatment in one of five (sometimes four, depending on demand) UV units. Just prior to entering the distribution system, this treated water receives a second injection of chlorine, so that an average chlorine residual of 0.40 mg/L to 0.50 mg/L is maintained.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite by Brenntage (12% - NSF approved)

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

Appendix A, attached, lists the expenses incurred in 2021. These expenses include purchase of fittings, valves, clamps,

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
Oct 1, 2021	Presence of coliform			Re-sampled	Oct 14, 2021

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	-0-	N/A	N/A	N/A	N/A
Treated		N/A	N/A	N/A	N/A
Distribution	26	Presence/Absence only	P/A	26	0- >300 High at Molinski

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 #)	Unit of Measure	<i>NOTE: For continuous monitors use 8760 as the number of samples.</i>
Turbidity				
Filter #1	8760	0.01– 0.57	NTU	
Filter #2	8760	0.03– 0.72 (note: erroneous reading of 10.0 & 10.0 during maintenance Jan, Feb)	NTU	
Chlorine	8760	0.01 – 5.0	mg/L	
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A	

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
C of A for Wastewater -July 2015	Total Suspended Solids			mg/L



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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	24 Feb 2016	<0.60	ug/L	No
Arsenic	24 Feb 2016	<1.0	ug/L	No
Barium	24 Feb 2016	<10	ug/L	No
Boron	24 Feb 2016	<50	ug/L	No
Cadmium	24 Feb 2016	< .10	ug/L	No
Chromium	24 Feb 2016	<1.0	ug/L	No
*Lead				
Mercury	24 Feb 2016	<0.10	ug/L	No
Selenium	24 Feb 2016	<1.0	ug/L	No
Sodium	21 Mar 2019	2.47	mg/L	No
Uranium	24 Feb 2016	<2.0	ug/L	No
Fluoride	21 Mar 2019	<0.30	mg/L	No
Nitrite	17 Feb 2021	<0.010	mg/L	No
Nitrate	17 Feb 2021	0.37	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 #)	Unit of Measure	Number of Exceedances
Plumbing	-0-			
Distribution				
Alkalinity	0		mg/L	N/A
pH	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	24 Feb 2016	<0.10	ug/L	No
Aldicarb	per MOECC	no longer	tested	
Aldrin + Dieldrin	per MOECC	no longer	tested	
Atrazine + N-dealkylated metabolites	24 Feb 2016	<0.20	ug/L	No
Azinphos-methyl	24 Feb 2016	<0.10	ug/L	No
Bendiocarb	per MOECC	no longer	tested	
Benzene	24 Feb 2016	<0.50	ug/L	No
Benzo(a)pyrene	24 Feb 2016	<0.010	ug/L	No
Bromoxynil	24 Feb 2016	,0.20	ug/L	No

Carbaryl	24 Feb 2016	<0.20	ug/L	No
Carbofuran	24 Feb 2016	<0.20	ug/L	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Carbon Tetrachloride	24 Feb 2016	<0.50	ug/L	No
Chlordane (Total)	24 Feb 2016	<0.10	ug/L	No
Chlorpyrifos	24 Feb 2016	<0.10	ug/L	No
Cyanazine	per MOECC	no longer	tested	
Diazinon	24 Feb 2016	<0.10	ug/L	No
Dicamba	24 Feb 2016	<0.20	ug/L	No
1,2-Dichlorobenzene	24 Feb 2016	<0.50	ug/L	No
1,4-Dichlorobenzene	24 Feb 2016	<0.50	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	24 Feb 2016	<0.10	ug/L	No
1,2-Dichloroethane	24 Feb 2016	<0.50	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	24 Feb 2016	<0.50	ug/L	No
Dichloromethane	24 Feb 2016	<5.0	ug/L	No
2-4 Dichlorophenol	24 Feb 2016	<0.30	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	24 Feb 2016	<0.20	ug/L	No
Diclofop-methyl	24 Feb 2016	<0.20	ug/L	No
Dimethoate	24 Feb 2016	<0.10	ug/L	No
Dinoseb	24 Feb 2016	<0.20	ug/L	No
Diquat	24 Feb 2016	<1.0	ug/L	No
Diuron	24 Feb 2016	<1.0	ug/L	No
Glyphosate	24 Feb 2016	<5.0	ug/L	No
Heptachlor + Heptachlor Epoxide	per MOECC	no longer	tested	
Lindane (Total)	per MOECC	no longer	tested	
Malathion	24 Feb 2016	<0.10	ug/L	No
Methoxychlor	per MOECC	no longer	tested	
Metolachlor	24 Feb 2016	<0.10	ug/L	No
Metribuzin	24 Feb 2016	<0.10	ug/L	No
Monochlorobenzene	24 Feb 2016	<0.50	ug/L	No
Paraquat	24 Feb 2016	<1.0	ug/L	No
Parathion	per MOECC	no longer	tested	
Pentachlorophenol	24 Feb 2016	<.50	ug/L	No
Phorate	24 Feb 2016	<0.10	ug/L	No
Picloram	24 Feb 2016	<0.40	ug/L	No
Polychlorinated Biphenyls(PCB)	24 Feb 2016	<0.035	ug/L	No
Prometryne	24 Feb 2016	<0.10	ug/L	No
Simazine	24 Feb 2016	<0.10	ug/L	No
THM (NOTE: show latest annual average)	2021 average	15.0	ug/L	No
Temephos	24 Feb 2016			
Terbufos	24 Feb 2016	<0.20	ug/L	No
Tetrachloroethylene	24 Feb 2016	<0.50	ug/L	No
2,3,4,6-Tetrachlorophenol	24 Feb 2016	<0.50	ug/L	No



Triallate	24 Feb 2016	<0.10	ug/L	No
Trichloroethylene	24 Feb 2016	<0.50	ug/L	No
2,4,6-Trichlorophenol	24 Feb 2016	<0.50	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	24 Feb 2016	<0.20	ug/L	No
Trifluralin	24 Feb 2016	<0.10	ug/L	No
Vinyl Chloride	24 Feb 2016	<0.20	ug/L	No
Total Haloacetic Acids 5	17 Feb 2021	10.06	ug/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
None			

Appendix A 2021

Item	Description	Cost
Equipment O&M	Valves, fittings, clamps,cal	\$ 21,715.70
Water Sampling Equipment	Calibrations	\$ 1,962.81
Property O&M	Building, grounds, dist. Sys	\$ 4,094.60
Operator Training	Training, Licence renewals	\$ 145.00
Utilities	Hydro (Plant, Church st., Boon St., Recirc pump)	\$ 6,547.29
Propane	Heating	\$ 4,348.52
Phone/Internet	Internet for SCADA sys	\$ 1,899.53
Chemical/Lab	ALS	\$ 1,438.49
	Chemicals	\$ 986.89
Supplies/postage		\$ -
Insurance		\$ 10,668.27
Easement/Permit to take water		\$ 2,535.72
Freight	Courtesy Courier	\$ 772.43
Operator	Wages	\$ 19,634.01
Other		\$ 31,081.00
Total		\$ 107,830.26