MADOC TOWNSHIP PUBLIC SCHOOL ANNUAL REPORT

Drinking water system number: 260014001

Drinking water system name: Madoc Township Public School

Drinking water system owner: Hastings and Prince Edward District School Board

Drinking water system category: Small Non-Municipal Non-Residential

Period Being Reported: April 1, 2022 - March 31, 2023

Number of Designated Facilities Served: 1

Copies provided of annual report to all designated facilities YES

served:

Number of interested authorities you report to: 3

Copies provided of annual report to all interested authorities YES

for each designated facility served:

List all drinking water systems (if any) which receive all of their Madoc Township Public School

drinking water from your system:

Copies provided of annual report to all drinking water system

owners to whom you provide all of its drinking water:

Indicate method of notifying system users of annual report Website and Public Request

availability free of charge:

Description of Drinking Water System:

The Madoc Township Public School drinking water system consists of one drilled well, located at the entrance of the school, equipped with a submersible pump that supplies raw water to a mechanical room in the school. An Engineer was retained in 2020 to design and build a new treatment system in the fall of 2021, as the existing system was aged. The system has been constructed with filtration, UV disinfection, and chlorine disinfection. The water is passed through two cartridge filters, a pre-treatment pressure tank, 2 disinfection units complete with a solenoid shut-off, and a chlorine tank prior to going to the distribution system, designed in accordance with O Reg 170 as specified by the Engineer. Chlorine residual is measured each day the school is open.

YES

A service contract is in place with OCWA (Ontario Clean Water Agency) to maintain the treatment system.

To satisfy treatment requirements as described in Ontario Regulation 170/03, Ultraviolet disinfection equipment is used as primary disinfection. In addition to meeting the minimum treatment requirement we add chlorination as a means of secondary disinfection, though it is not required in this system. The free chlorine residual is sampled and recorded on a daily basis and the UV solenoid is tested for proper functioning on a weekly basis.

A professional engineer hired by the Board certified that the water supply and works do meet the minimum standards set out in the Ontario Regulation 170/03. The engineer also certified that the minimum treatment laid out in Schedule 2 of the regulations is being complied with and that all equipment required by Schedule 6 and Schedule 9 of the regulations is provided.

Water treatment chemicals used over this reporting period: 12% Sodium hypochlorite solution Significant Expenses incurred included (0=N/A, X=APPLICABLE): 0 Install Required Equipment X Repair Required Equipment X Replace Required Equipment Description and breakdown of monetary expenses incurred: April 1, 2022 - March 31, 2023 Water system upgrades and replacements: New solenoid valves installed as recommended by UV Pure. \$1,920.37 Routine system maintenance (Including service contracts): Regular maintenance includes monthly checks of the water treatment system by a service contractor and the minor repair/replacement of necessary parts/equipment(including cistern maintenance). The costs, tax excluded, for regular maintenance on water treatment \$10,250.74 equipment was: Water sampling and analysis:

Details on notices submitted in accordance with subsection 18(1) of the SDWA or section 16-4 of Schedule 16 of O.Reg. 170/03 and reported to SAC:

The cost for microbiological and chemical water sampling by Greer Galloway and analytical

April 1, 2022 - March 31, 2023

fees was:

Staff Training:

				Corrective
Incident Date	Parameter	Result	Corrective Action	action date
None.				

Microbiological testing done under the Schedule 10, 11 or 12 of O.Reg 170/03:

Costs for required training of staff under Ontario Regulation 170/03 was:

April 1, 2022 - March 31, 2023

	Number of	Range of	Range of TC	
	samples	E.Coli or	Results	
		Fecal Results		
		(min-max)	(min-max)	
Raw	13	0-0	0-0	
Treated- Staff Kitchen	22	0-0	0-0	
Distribution	22	0-0	0-0	

Operational testing done under Schedule 7, 8 or 9 of O.Reg. 170/03:

April 1, 2022 - March 31, 2023

,	Number of Grab Samples	Range of Results
		(min-max)
Turbidity	22	0.08-0.23
Chlorine	224	0.21-1.32

\$4,911.39

\$304.62

Inorganic testing done during this reporting period or most recent sample results:						
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance		
Antimony	31-May-21	<0.0001	mg/L	No		
Arsenic	31-May-21	0.0002	mg/L	No		
Barium	31-May-21	0.221	mg/L	No		
Boron	31-May-21	0.015	mg/L	No		
Cadmium	31-May-21	<0.000015	mg/L	No		
Chromium	31-May-21	<0.002	mg/L	No		
Fluoride	31-May-21	<0.1	mg/L	No		
Lead- STANDING	-24-Aug-22	0.00727	mg/L	No		
Lead- FLUSHING	24-Aug-22	0.00358	mg/L	No		
Mercury	31-May-21	<0.00002	mg/L	No		
Nitrite	-14-Mar-23	0.05	mg/L	No		
Nitrate	14-10101-23	2.9	mg/L	No		
Selenium	31-May-21	<0.001	mg/L	No		
Sodium	31-May-21	67.8	mg/L	Yes		
Uranium	31-May-21	0.00038	mg/L	No		

Organic testing done during this reporting period or most recent sample results:					
				Unit of	
Parameter	Sample Date		Result Value	Measure	Exceedance
Alachlor	31-May-21	<	0.0003	mg/L	No
Atrazine + N-dealkylated metobolites	31-May-21	<	0.0005	mg/L	No
Azinphos-methyl	31-May-21	<	0.001	mg/L	No
Benzene	31-May-21	<	0.0005	mg/L	No
Benzo(a)pyrene	31-May-21	<	0.000006	mg/L	No
Bromoxynil	31-May-21	<	0.0005	mg/L	No
Carbaryl	31-May-21	<	0.003	mg/L	No
Carbofuran	31-May-21	<	0.001	mg/L	No
Carbon Tetrachloride	31-May-21	<	0.0002	mg/L	No
Chlorpyrifos	31-May-21	<	0.0005	mg/L	No
Diazinon	31-May-21	<	0.001	mg/L	No
Dicamba	31-May-21	<	0.01	mg/L	No
1,2-Dichlorobenzene	31-May-21	<	0.0005	mg/L	No
1,4-Dichlorobenzene	31-May-21	<	0.0005	mg/L	No
1,2-Dichloroethane	31-May-21	<	0.0005	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	31-May-21	<	0.0005	mg/L	No
Dichlormethane	31-May-21	<	0.005	mg/L	No
2,4-Dichlorophenol	31-May-21	<	0.0002	mg/L	No
2,4-Dichlorophenoxyacetic acid (2,4-D)	31-May-21	<	0.01	mg/L	No
Diclofop-methyl	31-May-21	<	0.0009	mg/L	No
Dimethoate	31-May-21	<	0.001	mg/L	No
Diquat	31-May-21	<	0.005	mg/L	No
Diuron	31-May-21	<	0.005	mg/L	No
Glyphosate	31-May-21	<	0.025	mg/L	No
Malathion	31-May-21	<	0.005	mg/L	No

2-Methyl-4-chlorophenoxyacetic acid (MCPA)	31-May-21	< 0.01	mg/L	No
Metolachlor	31-May-21	< 0.003	mg/L	No
Metribuzin	31-May-21	< 0.003	mg/L	No
Monochlorobenzene	31-May-21	< 0.0005	mg/L	No
Paraquat	31-May-21	< 0.001	mg/L	No
Pentachlorophenol	31-May-21	< 0.0002	mg/L	No
Phorate	31-May-21	< 0.0003	mg/L	No
Picloram	31-May-21	< 0.015	mg/L	No
PolyChlorinated Biphenyls (PCB)	31-May-21	< 0.00005	mg/L	No
Prometryne	31-May-21	< 0.0001	mg/L	No
Simazine	31-May-21	< 0.0005	mg/L	No
Terbufos	31-May-21	< 0.0005	mg/L	No
Tetrachloroethylene	31-May-21	< 0.0005	mg/L	No
2,3,4,6-Tetrachlorophenol	31-May-21	< 0.0002	mg/L	No
Triallate	31-May-21	< 0.01	mg/L	No
Trichloroethylene	31-May-21	< 0.0005	mg/L	No
2,4,6-Trichlorophenol	31-May-21	< 0.0002	mg/L	No
Trifluarlin	31-May-21	< 0.0005	mg/L	No
Trihalomethanes (THM)	5-Oct-21	< 0.006	mg/L	No
Vinyl Chloride	31-May-21	< 0.0002	mg/L	No