

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

## MAYNOOTH PUBLIC SCHOOL ANNUAL REPORT

Drinking water system number:	<b>260014027</b>
Drinking water system name:	<b>Maynooth Public School</b>
Drinking water system owner:	<b>Hastings and Prince Edward District School Board</b>
Drinking water system category:	<b>Small Non-Municipal Non-Residential</b>
Period Being Reported:	<b>April 1, 2022 - March 31, 2023</b>

Number of Designated Facilities Served:	1
Copies provided of annual report to all designated facilities served:	YES
Number of interested authorities you report to:	3
Copies provided of annual report to all interested authorities for each designated facility served:	YES
List all drinking water systems (if any) which receive all of their drinking water from your system:	Maynooth Public School & North Hastings Childrens Services (#500122760)
Copies provided of annual report to all drinking water system owners to whom you provide all of its drinking	YES
Indicate method of notifying system users of annual report availability free of charge:	Website and Public Request

### **Description of Drinking Water System:**

The Maynooth Public School drinking water system consists of one well, drilled in July 2011. The well is located at the east side of the parking lot of the school, and is equipped with a submersible pump that supplies raw water to a mechanical room in the basement of the school. The water is chlorinated and then passes through two cartridge style sediment filter and then through an Ultraviolet Pro 20 disinfection system which is equipped with a solenoid valve that shuts down water in instances of poor water quality or loss of power; the solenoid is tested weekly. The pressure system and other miscellaneous pipes and fittings are located in the same room. Chlorine residual is measured each day the school is open.

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.

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.

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**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:**

No major upgrades or replacements of equipment were completed during this year.

**\$0.00**

**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 equipment was :

**\$8,796.10**

**Water sampling and analysis:**

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

**\$4,911.39**

**Staff Training:**

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

**\$304.62**

**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:**

April 1, 2022 - March 31, 2023

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective action date
No incidents.					

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

April 1, 2022 - March 31, 2023

	Number of samples	Range of E.Coli or Fecal (min-max)	Range of TC Results (min-max)
<b>Raw</b>	13	0-0	0-0
<b>Treated- Staff Kitchen</b>	22	0-0	0-0
<b>Distribution</b>	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)
<b>Turbidity</b>	22	0.19-0.93
<b>Chlorine</b>	224	0.30-1.29

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Inorganic testing done during this reporting period or most recent sample results:				
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	12-Jan-22	<0.0001	mg/L	No
Arsenic	12-Jan-22	0.0004	mg/L	No
Barium	12-Jan-22	0.013	mg/L	No
Boron	12-Jan-22	0.018	mg/L	No
Cadmium	12-Jan-22	0.000015	mg/L	No
Chromium	12-Jan-22	<0.002	mg/L	No
Fluoride	12-Jan-22	0.1	mg/L	No
Lead - STANDING	16-Jun-22	0.00331	mg/L	No
Lead - FLUSHED		0.00178	mg/L	No
Mercury	12-Jan-22	<0.00002	mg/L	No
Nitrite	14-Mar-23	0.05	mg/L	No
Nitrate		0.05	mg/L	No
Selenium	12-Jan-22	<0.001	mg/L	No
Sodium	12-Jan-22	13.9	mg/L	No
Uranium	12-Jan-22	0.0119	mg/L	No

Organic testing done during this reporting period or most recent sample results:				
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	12-Jan-22	< 0.0003	mg/L	No
Atrazine + N-dealkylated metabolites	12-Jan-22	< 0.0005	mg/L	No
Azinphos-methyl	12-Jan-22	< 0.001	mg/L	No
Benzene	12-Jan-22	< 0.0005	mg/L	No
Benzo(a)pyrene	12-Jan-22	< 0.000006	mg/L	No
Bromoxynil	12-Jan-22	< 0.0005	mg/L	No
Carbaryl	12-Jan-22	< 0.003	mg/L	No
Carbofuran	12-Jan-22	< 0.001	mg/L	No
Carbon Tetrachloride	12-Jan-22	< 0.0002	mg/L	No
Chlorpyrifos	12-Jan-22	< 0.0005	mg/L	No
Diazinon	12-Jan-22	< 0.001	mg/L	No
Dicamba	12-Jan-22	< 0.001	mg/L	No
1,2-Dichlorobenzene	12-Jan-22	< 0.0005	mg/L	No
1,4-Dichlorobenzene	12-Jan-22	< 0	mg/L	No
1,2-Dichloroethane	12-Jan-22	< 0.0005	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	12-Jan-22	< 0.0005	mg/L	No
Dichlormethane	12-Jan-22	< 0.005	mg/L	No
2,4-Dichlorophenol	12-Jan-22	< 0.0002	mg/L	No
2,4-Dichlorophenoxyacetic acid (2,4-D)	12-Jan-22	< 0.001	mg/L	No
Diclofop-methyl	12-Jan-22	< 0.0009	mg/L	No
Dimethoate	12-Jan-22	< 0.001	mg/L	No
Diquat	12-Jan-22	< 0.005	mg/L	No
Diuron	12-Jan-22	< 0.005	mg/L	No
Glyphosate	12-Jan-22	< 0.025	mg/L	No
Malathion	12-Jan-22	< 0.005	mg/L	No

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<b>2-Methyl-4-chlorophenoxyacetic acid (MCPA)</b>	5-Jan-17	< 0.00012	mg/L	No
<b>Metolachlor</b>	12-Jan-22	< 0.003	mg/L	No
<b>Metribuzin</b>	12-Jan-22	< 0.003	mg/L	No
<b>Monochlorobenzene</b>	12-Jan-22	< 0.0005	mg/L	No
<b>Paraquat</b>	12-Jan-22	< 0.001	mg/L	No
<b>Pentachlorophenol</b>	12-Jan-22	< 0.0002	mg/L	No
<b>Phorate</b>	12-Jan-22	< 0.0003	mg/L	No
<b>Picloram</b>	12-Jan-22	< 0.005	mg/L	No
<b>PolyChlorinated Biphenyls (PCB)</b>	12-Jan-22	< 0.0001	mg/L	No
<b>Prometryne</b>	12-Jan-22	< 0.0001	mg/L	No
<b>Simazine</b>	12-Jan-22	< 0.0005	mg/L	No
<b>Terbufos</b>	12-Jan-22	< 0.0005	mg/L	No
<b>Tetrachloroethylene</b>	12-Jan-22	< 0.0005	mg/L	No
<b>2,3,4,6-Tetrachlorophenol</b>	12-Jan-22	< 0.0002	mg/L	No
<b>Triallate</b>	12-Jan-22	< 0.01	mg/L	No
<b>Trichloroethylene</b>	12-Jan-22	< 0.0005	mg/L	No
<b>2,4,6-Trichlorophenol</b>	12-Jan-22	< 0.0002	mg/L	No
<b>Trifluarlin</b>	12-Jan-22	< 0.0005	mg/L	No
<b>Trihalomethanes (THM)</b>	12-Jan-22	< 0.006	mg/L	No
<b>Vinyl Chloride</b>	12-Jan-22	< 0.0002	mg/L	No