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

ATHOL-SOUTH MARYSBURGH PUBLIC SCHOOL ANNUAL REPORT

Drinking water system number:	**260013897**
Drinking water system name:	**Athol-South Marysburgh 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, 2020 - March 31, 2021**

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:	Athol-South Marysburgh Public School
Copies provided of annual report to all drinking water system owners to whom you provide all of its drinking water:	YES
Indicate method of notifying system users of annual report availability free of charge:	Website and Public Request

Description of Drinking Water System:

The Athol -South Marysburgh Public School drinking water system consists of one in-ground storage tank equipped with a jet pump that supplies municipal water to the water treatment system. Water from a facility meeting the requirement of Ontario Regulation 170/03 is hauled to the school and serves as the only water source. The water passes through a pressure tank, then through a cartridge filter before it enters the UV disinfection unit. A solenoid valve, tested weekly, automatically shuts off water flow in the case of poor water quality or loss of power. The water is then passed by a post-chlorination injector prior to distribution to the school plumbing (supplemental chlorination). Chlorine residual is measured each day the school is open.

A service contract is in place with Culligan Water, Belleville, 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. They also certified that the minimum treatment laid out in Schedule 2 of the regulations is being complied with and that all equipment required in order to carry out the period checks in compliance with Schedule 6 and Schedule 9 of the regulations is provided.

Water treatment chemicals used over this reporting period:
12% Sodium hypochlorite solution

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

Significant Expenses incurred included (0=N/A, X=APPLICABLE):

0	Install Required Equipment
X	Repair Required Equipment
0	Replace Required Equipment

Description and breakdown of monetary expenses incurred: April 1, 2020 - March 31, 2021

Water system upgrades and replacements:

No upgrades or replacements of equipment were completed during this year; replacement parts only **$1,133.55**

Routine system maintenance (Including service contracts):

Regular maintenance includes monthly checks of the water treatment system. Where components are replaced as regular maintenace (ie filters), that cost is noted under upgrades/replacements/part repair. The costs for regular maintenance on water treatment equipment was : **$2,824.18**

Water sampling and analysis:

The cost for microbiological and chemical water sampling by Greer Galloway and analytical fees was: **$2,793.66**

Staff Training:

Costs for required training of staff under Ontario Regulation 170/03 was: **$84.62**

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, 2020 - March 31, 2021

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, 2020 - March 31, 2021

	Number of samples	Range of E.Coli or Fecal Results (min-max)	Range of TC Results (min-max)
Cistern	10	0-0	0-0
Treated- Staff Kitchen	10	0-0	0-0
Distribution	10	0-0	0-0

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

April 1, 2020 - March 31, 2021

	Number of Grab Samples	Range of Results (min-max)
Turbidity	10	0.10 - 0.50
Chlorine	180	0.13 - 0.86

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

Inorganic testing done during this reporting period or most recent sample results:					
Parameter		**Sample Date**	**Result Value**	**Unit of Measure**	**Exceedance**
Antimony		N/A		mg/L	N/A
Arsenic		N/A		mg/L	N/A
Barium		N/A		mg/L	N/A
Boron		N/A		mg/L	N/A
Cadmium		N/A		mg/L	N/A
Chromium		N/A		mg/L	N/A
***Lead**	**STANDING**	7-Oct-20	0.00218	mg/L	No
	FLUSHED	7-Oct-20	0.002	mg/L	No
Mercury		N/A		mg/L	N/A
Selenium		N/A		mg/L	N/A
Sodium		N/A		mg/L	N/A
Uranium		N/A		mg/L	N/A
Fluoride		N/A		mg/L	N/A
Nitrite - 4th quarter result		Mar-21	0.1	mg/L	N/A
Nitrate - 4th quarter result		Mar-21	0.3	mg/L	N/A

Organic testing done during this reporting period or most recent sample results:				
Parameter	**Sample Date**	**Result Value**	**Unit of Measure**	**Exceedance**
Alachlor	N/A		mg/L	N/A
Atrazine + N-dealkylated metobolites	N/A		mg/L	N/A
Azinphos-methyl	N/A		mg/L	N/A
Benzene	N/A		mg/L	N/A
Benzo(a)pyrene	N/A		mg/L	N/A
Bromoxynil	N/A		mg/L	N/A
Carbaryl	N/A		mg/L	N/A
Carbofuran	N/A		mg/L	N/A
Carbon Tetrachloride	N/A		mg/L	N/A
Chlorpyrifos	N/A		mg/L	N/A
Diazinon	N/A		mg/L	N/A
Dicamba	N/A		mg/L	N/A
1,2-Dichlorobenzene	N/A		mg/L	N/A
1,4-Dichlorobenzene	N/A		mg/L	N/A
1,2-Dichloroethane	N/A		mg/L	N/A
1,1-Dichloroethene (vinylidene chloride)	N/A		mg/L	N/A
Dichlormethane	N/A		mg/L	N/A
2,4-Dichlorophenol	N/A		mg/L	N/A
2,4-Dichlorophenoxyacetic acid (2,4-D)	N/A		mg/L	N/A
Diclofop-methyl	N/A		mg/L	N/A
Dimethoate	N/A		mg/L	N/A
Diquat	N/A		mg/L	N/A
Diuron	N/A		mg/L	N/A
Glyphosate	N/A		mg/L	N/A
MCPA 2-Methyl-4-chlorophenoxyacetic Acid	N/A		mg/L	N/A

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

Malathion	N/A		mg/L	N/A
Metolachlor	N/A		mg/L	N/A
Metribuzin	N/A		mg/L	N/A
Monochlorobenzene	N/A		mg/L	N/A
Paraquat	N/A		mg/L	N/A
Pentachlorophenol	N/A		mg/L	N/A
Phorate	N/A		mg/L	N/A
Picloram	N/A		mg/L	N/A
PolyChlorinated Biphenyls (PCB)	N/A		mg/L	N/A
Prometryne	N/A		mg/L	N/A
Simazine	N/A		mg/L	N/A
THM	2-Oct-20	0.077	mg/L	No
Terbufos	N/A		mg/L	N/A
Tetrachloroethylene	N/A		mg/L	N/A
2,3,4,6-Tetrachlorophenol	N/A		mg/L	N/A
Triallate	N/A		mg/L	N/A
Trichloroethylene	N/A		mg/L	N/A
2,4,6-Trichlorophenol	N/A		mg/L	N/A
Trifluarlin	N/A		mg/L	N/A
Vinyl Chloride	N/A		mg/L	N/A

Inorganic or Organic Parameter(s) that exceed half the standard prescribed in Schedule 2 of ODWQS:				
Parameter	**Result Value**	**Unit of Measure**	**Date of Sample**	Notes:
THM - Voluntary Sampling	0.065	mg/L	2-Oct-20	voluntary sampling