

ANNUAL DRINKING WATER REPORT 2018-2019

ST. ANDREW'S CATHOLIC SCHOOL, KILLALOE

Introduction

The Renfrew County Catholic District School Board is pleased to present to the parents and students of St. Andrew's, Killaloe its annual drinking water report. The province's Drinking Water Protection Regulation for Smaller Water Works Serving Designated Facilities requires that we publish this report for your information. Here you will find the water quality and other information that we were required to collect for the annual period April 1, 2018 to March 31, 2019.

If you have a question about the St. Andrew's, Killaloe water supply or this report, please call the Community Use of Schools/Plant Services Officer @ 613-735-1031 Ext 273, Health and Safety Officer @ 613-735-1031 Ext 343 or school principal Julie Huckabone @ 613-757-2330 during business hours.

Water System Information

St. Andrew's has been served by an on-site well drilled in 1989. The well is drilled to approximately 16 meters, where water is obtained from a rock/gravel aquifer. In order to comply with the minimum treatment requirements contained in the regulation, ultraviolet disinfection equipment was installed in the spring of 2002. A professional engineer hired by the Board provided certification that the water works at the school meets the minimum requirements set forth in the regulation. This engineering assessment and certification is a mandatory requirement of the regulation.

Equipment Costs Incurred in 2018-2019

The cost of treatment equipment, weekly testing and the consultant was approximately \$13,317.25.

Summary of notices and reports

As required by the regulation, the Renfrew County Catholic District School Board submitted a notice to the Ministry of the Environment and to the interested authority (the Ministry of Education) advising it that the water supply at the school did not meet the minimum treatment requirements. The notice of non-compliance also advised that the Board had retained the services of an engineering consultant and planned to be in compliance by March 2002.

In March 2002, after the new water works commenced operation, the Board submitted its engineer's report to the Ministry of the Environment and the interested authority (the Ministry of Education) as required by the regulation. The report certified that St. Andrew's School, Killaloe water works met all requirements.

On October 30, 2012 a Ministry of the Environment Drinking Water Inspection was completed. ACTION Required items were to provide a EER report. All information in this report can be viewed online or at the request of an individual at St. Andrew's Catholic School.

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On November 23, 2015 a Ministry of Environment Drinking Water Inspection was completed. ACTION required: to install a 5-micron filter prior to the UV light by the start of the 2016/2017 school year. Filter was installed on March 29, 2016.

Adverse water quality notifications and corrective actions

There was one notice submitted on May 30, 2017 to the Ministry of the Environment and the local Medical Officer of Health indicating samples with adverse water quality for Sodium In this case, the tap was resampled with results still being high sodium. The school will continue to have signs posted adjacent to all fountains and all distribution water taps indicating high sodium. A notice of issue resolution was sent out to the Ministry of the Environment and the local Medical Officer of Health on May 30, 2017.

Summary of water quality

The regulation requires the Board to sample for various types of water quality parameters at prescribed frequencies. The results are presented below, followed by some definitions you may find useful.

***Summary of Results for Microbiological Parameters
April 1, 2018-March 31, 2019***

| Parameter | Sample Type | Frequency | # of samples Yearly | Amount Detected | # of exceedances |
|------------------------------|-------------------|-----------|---------------------|---|------------------|
| Total Coliforms (per 100 mL) | Raw Water | Monthly | 12 | ND | 0 |
| Total Coliforms (per 100 mL) | Treated Water | Monthly | 12 | ND | 0 |
| Total Coliforms (per 100 mL) | Distribution Line | Monthly | 12 | ND | 0 |
| E.coli (per 100 mL) | Raw Water | Monthly | 12 | ND | 0 |
| E.coli (per 100 mL) | Treated Water | Monthly | 12 | ND | 0 |
| E.coli (per 100 mL) | Distribution Line | Monthly | 12 | ND | 0 |
| Nitrites/Nitrates (N) | Treated | Quarterly | 4 | 1.05 mg/L 0.711 mg/L 0.293 mg/L 0.260 mg/L | 0 |

***ND – non detectable**

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*Summary of Results for Chemical Parameters
(Collected May 24, 2017)*

| Parameter | M.D.L | Pump Room Treated | Kitchen/Staff Room |
|--|---------|-------------------|--------------------|
| Antimony | 0.02 | 0.08 | -- |
| Arsenic | 0.2 | 0.2<MDL | -- |
| Barium | 0.01 | 130 | -- |
| Boron | 2 | 55 | -- |
| Cadmium | 0.003 | 0.005 | -- |
| Chromium | 0.03 | 0.57 | -- |
| Lead | 0.01 | -- | 0.01<MDL |
| Mercury | 0.01 | 0.01 | -- |
| Selenium | 0.04 | 0.25 | -- |
| Sodium | 0.01 | 119 | -- |
| Uranium | 0.002 | 13.8 | -- |
| Benzene | 0.32 | 0.32<MDL | -- |
| Carbon Tetrachloride | 0.16 | 0.16<MDL | -- |
| Dichlorobenzene 1, 2- | 0.41 | 0.41<MDL | -- |
| Dichlorobenzene 1, 4- | 0.36 | 0.36<MDL | -- |
| Dichloroethane 1, 2- | 0.35 | 0.35<MDL | -- |
| Dichloroethylene 1, 1- | 0.33 | 0.33<MDL | -- |
| Dichloromethane (Methylene Chloride) | 0.35 | 0.35<MDL | -- |
| Monochlorobenzene (Chlorobenzene) | 0.30 | 0.3<MDL | -- |
| Tetrachloroethylene | 0.35 | 0.35<MDL | -- |
| Trichloroethylene | 0.44 | 0.44<MDL | -- |
| Vinyl Chloride | 0.17 | 0.17<MDL | -- |
| Fluoride | 0.06 | 0.24 | -- |
| Alachlor | 0.02 | 0.02<MDL | -- |
| Atrazine + Metabolites | 0.01 | 0.01<MDL | -- |
| Atrazine | 0.01 | 0.01<MDL | -- |
| Desethyl Atrazine | 0.01 | 0.01<MDL | -- |
| Azinphos-methyl | 0.05 | 0.05<MDL | -- |
| Benzo(A)pyrene | 0.004 | 0.04<MDL | -- |
| Bromozynil | 0.33 | 0.33<MDL | -- |
| Carbaryl | 0.05 | 0.05<MDL | -- |
| Carbofuran | 0.01 | 0.01<MDL | -- |
| Chlorpyrifos | 0.02 | 0.02<MDL | -- |
| Diazinon | 0.02 | 0.02<MDL | -- |
| Dicamba | 0.20 | 0.20<MDL | -- |
| Dichlorophenol 2, 4- | 0.15 | 0.15<MDL | -- |
| Dichlorophenoxyacetic acid 2, 4- (2,4-D) | 0.19 | 0.19<MDL | -- |
| Diclofop-methyl | 0.40 | 0.40<MDL | -- |
| Dimethoate | 0.03 | 0.03<MDL | -- |
| Diquat | 1 | 1<MDL | -- |
| Diuron | 0.03 | 0.03<MDL | -- |
| Glyphosate | 1 | 1<MDL | -- |
| Malathion | 0.02 | 0.02<MDL | -- |
| Metolachlor | 0.01 | 0.01<MDL | -- |
| Metribuzin | 0.02 | 0.02<MDL | -- |
| MCPA | 0.00012 | 0.00012<MDL | -- |
| Paraquat | 1 | 1<MDL | -- |
| Pentachlorophenol | 0.15 | 0.15<MDL | -- |

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| Parameter | M.D.L | Pump Rm Treated | Kitchen Staff Room |
|------------------------------------|-------|-----------------|--------------------|
| Phorate | 0.1 | 0.01<MDL | -- |
| Picloram | 1 | 1<MDL | -- |
| Poly-Chlorinated Biphenyls (PCB's) | 0.04 | 0.04<MDL | -- |
| Prometryne | 0.03 | 0.03<MDL | -- |
| Simazine | 0.01 | 0.01<MDL | -- |
| Terbufos | 0.01 | 0.01<MDL | -- |
| Tetrachlorophenol, 2, 3, 4, 6- | 0.2 | 0.20<MDL | -- |
| Triallate | 0.01 | 0.01<MDL | -- |
| Trichlorophenol 2, 4, 6- | 0.25 | 0.25<MDL | -- |
| Trifluralin | 0.02 | 0.02<MDL | -- |

Note: Sampling frequency is once per five years.

MDL – Minimum Detectable Limit (micrograms),