Ontario

Drinking-Water Systems Regulation O. Reg. 170/03
Kelly Drinking Water System Annual Report 2020

Drinking-Water System Number:	260007793
Drinking-Water System Name:	Kelly Drinking Water System
Drinking-Water System Owner:	Municipality of Central Huron
Drinking-Water System Category:	Small Municipal Residential
Period being reported:	January 1 to December 31, 2020

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [X]

Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No [ ]

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

Municipal Office

23 Albert St. Clinton Ontario

Utilities Work Centre
17 Park Lane Clinton Ontario

Complete for all other Categories.

Number of Designated Facilities served:

Did you provide a copy of your annual report to all Designated Facilities you serve?
Yes [ ] No [ ]

Number of Interested Authorities you report to:

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?
Yes [ ] No [ ]

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

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.

[X] Public access/notice via the web
[ ] Public access/notice via Government Office
[ ] Public access/notice via a newspaper
[X] Public access/notice via Public Request
[ ] Public access/notice via a Public Library
[ ] Public access/notice via other method _____

Describe your Drinking-Water System

The Kelly Drinking Water System is located at 33823 Fullerview Circle. It was established in 1983. There is a single drilled groundwater well, approximately 45.7m deep, with a 132L/m submersible well pump. Treatment consists of sodium hypochlorite disinfection through a 38m x 300mm contact watermain. Sodium silicate addition is used for iron sequestering. Storage is provided by of 3 hydropneumatic pressure tanks. Backup power is supplied by a natural gas powered generator with automatic power transfer. The distribution system supplies approximately 24 permanent residences via 50mm plastic water main, and includes 3 valves and 2 blowoffs for maintenance purposes**.**

List all water treatment chemicals used over this reporting period

Sodium hypochlorite
Sodium silicate

Were any significant expenses incurred to?

[ ] Install required equipment
[X] Repair required equipment
[X] Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred

standby generator repair & new chlorine dosing pumps

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
January 9, 2020	**Chlorine residual @ pumphouse**	**0**	**mg/L**	**Restore disinfection, flush, distribution residuals**	**January 9, 2020**

February 14, 2020	**Loss of presuure**	**Approx 10**	**PSI**	**Pressure restored, disinfection increased, flushed, resample**	**February 18, 2020**

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	33	**0 - 0**	**0 – 0**	**0**	
Treated	33	**0 - 0**	**0 - 0**	**33**	**0-10**
Distribution	33	**0 - 0**	**0 – 0**	**33**	**0-50**

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 #)
Turbidity **Raw Well**	12	**0.20-0.81 NTU**
Chlorine **Treated** **Distribution**	8760 107	**0-2.43mg/L** **0.66-1.71mg/L**
Fluoride (If the DWS provides fluoridation)	**N/A**	

NOTE**: For continuous monitors use 8760 as the number of samples.**

***NOTE**: Record the unit of measure if it is **not** milligrams per litre.*

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
None to Report				

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	Mar 5, 2019	ND	**µg/L**	no
Arsenic	Mar 5, 2019	2.5	**µg/L**	no
Barium	Mar 5, 2019	24.9	**µg/L**	no
Boron	Mar 5, 2019	82	**µg/L**	no
Cadmium	Mar 5, 2019	ND	**µg/L**	no
Chromium	Mar 5, 2019	0.10	**µg/L**	no
***Lead**	See below			no
Mercury	Mar 5, 2019	0.02	**µg/L**	no
Selenium	Mar 5, 2019	ND	**µg/L**	no
Sodium	Mar 5, 2019	92.3	**mg/L**	no
Uranium	Mar 5, 2019	0.402	**µg/L**	no
Fluoride	Mar 5, 2019	1.69	**mg/L**	no
Nitrite	Oct27, 2020	ND	**mg/L**	no
Nitrate	Oct27, 2020	0.006	**mg/L**	no

*only for drinking water systems testing under Schedule 15.2; this includes large municipal nonresidential 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 #)	Number of Exceedances
Plumbing	**0-reduced sampling now in effect**		
Distribution	**1**	**0.12ug/L**	**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	**Mar 5, 2019**	**ND**	**µg/L**	no
Atrazine	**Mar 5, 2019**	**ND**	**µg/L**	no
Atrazine + N-dealkylated metobolites	**Mar 5, 2019**	**ND**	**µg/L**	no
Azinphos-methyl	**Mar 5, 2019**	**ND**	**µg/L**	no

Benzene	**Mar 5, 2019**	**ND**	**µg/L**	no
Benzo(a)pyrene	**Mar 5, 2019**	**ND**	**µg/L**	no
Bromoxynil	**Mar 5, 2019**	**ND**	**µg/L**	no
Carbaryl	**Mar 5, 2019**	**ND**	**µg/L**	no
Carbofuran	**Mar 5, 2019**	**ND**	**µg/L**	no
Carbon Tetrachloride	**Mar 5, 2019**	**ND**	**µg/L**	no
Chlorpyrifos	**Mar 5, 2019**	**ND**	**µg/L**	no
Desethyl atrazine	**Mar 5, 2019**	**ND**	**µg/L**	no
Diazinon	**Mar 5, 2019**	**ND**	**µg/L**	no
Dicamba	**Mar 5, 2019**	**ND**	**µg/L**	no
1,2-Dichlorobenzene	**Mar 5, 2019**	**ND**	**µg/L**	no
1,4-Dichlorobenzene	**Mar 5, 2019**	**ND**	**µg/L**	no
1,2-Dichloroethane	**Mar 5, 2019**	**ND**	**µg/L**	no
1,1-Dichloroethylene (vinylidene chloride)	**Mar 5, 2019**	**ND**	**µg/L**	no
Dichloromethane	**Mar 5, 2019**	**ND**	**µg/L**	no
2,4 Dichlorophenol	**Mar 5, 2019**	**ND**	**µg/L**	no
2,4-Dichlorophenoxy acetic acid (2,4-D)	**Mar 5, 2019**	**ND**	**µg/L**	no
Diclofop-methyl	**Mar 5, 2019**	**ND**	**µg/L**	no
Dimethoate	**Mar 5, 2019**	**ND**	**µg/L**	no
Diquat	**Mar 5, 2019**	**ND**	**µg/L**	no
Diuron	**Mar 5, 2019**	**ND**	**µg/L**	no
Glyphosate	**Mar 5, 2019**	**ND**	**µg/L**	no
Malathion	**Mar 5, 2019**	**ND**	**µg/L**	no
Metolachlor	**Mar 5, 2019**	**ND**	**µg/L**	no
Metribuzin	**Mar 5, 2019**	**ND**	**µg/L**	no
Monochlorobenzene	**Mar 5, 2019**	**ND**	**µg/L**	no
Paraquat	**Mar 5, 2019**	**ND**	**µg/L**	no
Pentachlorophenol	**Mar 5, 2019**	**ND**	**µg/L**	no
Phorate	**Mar 5, 2019**	**ND**	**µg/L**	no
Picloram	**Mar 5, 2019**	**ND**	**µg/L**	no
Polychlorinated Biphenyls(PCB)	**Mar 5, 2019**	**ND**	**µg/L**	no
Prometryne	**Mar 5, 2019**	**ND**	**µg/L**	no
Simazine	**Mar 5, 2019**	**ND**	**µg/L**	no
THM (annual average)	**2018**	**5.1**	**µg/L**	no
Terbufos	**Mar 5, 2019**	**ND**	**µg/L**	no
Tetrachloroethylene	**Mar 5, 2019**	**ND**	**µg/L**	no
2,3,4,6-Tetrachlorophenol	**Mar 5, 2019**	**ND**	**µg/L**	no
Triallate	**Mar 5, 2019**	**ND**	**µg/L**	no
Trichloroethylene	**Mar 5, 2019**	**ND**	**µg/L**	no

2,4,6-Trichlorophenol	**Mar 5, 2019**	**ND**	**µg/L**	no
Trifluralin	**Mar 5, 2019**	**ND**	**µg/L**	no
Vinyl Chloride	**Mar 5, 2019**	**ND**	**µg/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
Flouride	**1.69**	**mg/L**	**Mar 5,2019**