



Drinking-Water System Number:	220001539
Drinking-Water System Name:	Clinton Drinking Water System
Drinking-Water System Owner:	Municipality of Central Huron
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1 to December 31, 2013

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [X]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No [ ]</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <table border="1" style="width: 100%;"> <tr> <td>Municipal Office 23 Albert St. Clinton Ontario</td> </tr> <tr> <td>Utilities Work Centre 17 Park Lane Clinton Ontario</td> </tr> </table>	Municipal Office 23 Albert St. Clinton Ontario	Utilities Work Centre 17 Park Lane Clinton Ontario	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served: <input type="text"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]</p> <p>Number of Interested Authorities you report to: <input type="text"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ]</p>
Municipal Office 23 Albert St. Clinton Ontario			
Utilities Work Centre 17 Park Lane Clinton Ontario			

**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
Vanastra Waterworks	210001585

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 [X] No [ ]



**Ontario Drinking-Water Systems Regulation O. Reg. 170/03  
Clinton Drinking Water System Annual Report 2013**

Indicate how you notified system users that your annual report is available, and is free of charge.

- Public access/notice via the web
- Public access/notice via Government Office
- Public access/notice via a newspaper
- 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 Clinton Drinking Water System consists of 3 deep drilled bedrock wells, all greater than 300 feet in depth. The wells are all located in the vicinity of Park Lane and Princess Street, one of which is located in the 17 Park Lane Utilities workshop. The wells pump to a 2 celled, 2475 m<sup>3</sup> in ground reservoir. Disinfection is achieved by gas chlorine addition to the reservoir inlet line and contact time is provided by the reservoir. System pressure is maintained by 4 pressure tanks and 4 highlift pumps with a total capacity of 135 L/s. A 135L/s fire pump acts as a backup to this pumping system and is piped independently to the distribution. Well and highlift pump operations are controlled by a SCADA system. Backup power is provided by a 450 kW diesel generator with automatic power transfer.

**List all water treatment chemicals used over this reporting period**

Chlorine Gas

**Were any significant expenses incurred to?**

- Install required equipment
- Repair required equipment
- Replace required equipment

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

Replacement of watermain on East Street and a portion of Victoria Street. Extended watermain on Mary Street.  
Replacement of high lift pumps 2 & 3



**Ontario Drinking-Water Systems Regulation O. Reg. 170/03  
Clinton Drinking Water System Annual Report 2013**

**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
June 21, 2012	Other observations	Loss of pressure / improper disinfection possible	psi / site conditions	Main repaired and flushed. Users on precautionary boil water advisory	June 21-27, 2013

**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 #)
Well #1 Raw	53	0 – 0	0 – 0	0	
Well #2 Raw	53	0 – 0	0 – 0	0	
Well #3 Raw	53	0 – 0	0 – 0	0	
Treated POE	53	0 – 0	0 - 0	53	0 - 16
Distribution	207	0 – 0	0 - 0	68	0 - 29

**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 #)
<b><u>Turbidity</u></b>		
Well #1 raw	12	0.25 – 2.03 NTU
Well #2 raw	12	0.10 – 0.35 NTU
Well #3 raw	10	0.10 – 0.42 NTU
Treated	53	0.07 – 0.39 NTU
Distribution	194	0.06 – 1.97 NTU
<b><u>Chlorine</u></b>		
Treated	8760	0.58 – 1.96 mg/L
Distribution	301	0.24 – 0.93 mg/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.**

	Parameter	Date Sampled	Result	Unit of Measure
None to report				



**Ontario Drinking-Water Systems Regulation O. Reg. 170/03  
Clinton Drinking Water System Annual Report 2013**

**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	Feb 11, 2013	ND	mg/L	no
Arsenic	Feb 11, 2013	ND	mg/L	no
Barium	Feb 11, 2013	0.210	mg/L	no
Boron	Feb 11, 2013	0.015	mg/L	no
Cadmium	Feb 11, 2013	ND	mg/L	no
Chromium	Feb 11, 2013	ND	mg/L	no
*Lead	See below			
Mercury	Feb 11, 2013	ND	mg/L	no
Selenium	Feb 11, 2013	ND	mg/L	no
Sodium	Feb 6, 2012	17	mg/L	no
Uranium	Feb 11, 2013	0.0012	mg/L	no
Fluoride	Feb 9, 2009	1.0	mg/L	no
Nitrite	Oct 7, 2013	ND	mg/L	no
Nitrate	Oct 7, 2013	2.0	mg/L	no

\*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

ND = not detected

**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	0 - reduced sampling now in effect		



**Ontario Drinking-Water Systems Regulation O. Reg. 170/03  
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**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	Feb 11, 2013	ND	mg/L	no
Aldicarb	Feb 11, 2013	ND	mg/L	no
Aldrin + Dieldrin	Feb 11, 2013	ND	mg/L	no
Atrazine + N-dealkylated metabolites	Feb 11, 2013	ND	mg/L	no
Azinphos-methyl	Feb 11, 2013	ND	mg/L	no
Bendiocarb	Feb 11, 2013	ND	mg/L	no
Benzene	Feb 11, 2013	ND	mg/L	no
Benzo(a)pyrene	Feb 11, 2013	ND	mg/L	no
Bromoxynil	Feb 11, 2013	ND	mg/L	no
Carbaryl	Feb 11, 2013	ND	mg/L	no
Carbofuran	Feb 11, 2013	ND	mg/L	no
Carbon Tetrachloride	Feb 11, 2013	ND	mg/L	no
Chlordane (Total)	Feb 11, 2013	ND	mg/L	no
Chlorpyrifos	Feb 11, 2013	ND	mg/L	no
Cyanazine	Feb 11, 2013	ND	mg/L	no
Diazinon	Feb 11, 2013	ND	mg/L	no
Dicamba	Feb 11, 2013	ND	mg/L	no
1,2-Dichlorobenzene	Feb 11, 2013	ND	mg/L	no
1,4-Dichlorobenzene	Feb 11, 2013	ND	mg/L	no
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Feb 11, 2013	ND	mg/L	no
1,2-Dichloroethane	Feb 11, 2013	ND	mg/L	no
1,1-Dichloroethylene (vinylidene chloride)	Feb 11, 2013	ND	mg/L	no
Dichloromethane	Feb 11, 2013	ND	mg/L	no
2-4 Dichlorophenol	Feb 11, 2013	ND	mg/L	no
2,4-Dichlorophenoxy acetic acid (2,4-D)	Feb 11, 2013	ND	mg/L	no
Diclofop-methyl	Feb 11, 2013	ND	mg/L	no
Dimethoate	Feb 11, 2013	ND	mg/L	no
Dinoseb	Feb 11, 2013	ND	mg/L	no
Diquat	Feb 11, 2013	ND	mg/L	no
Diuron	Feb 11, 2013	ND	mg/L	no
Glyphosate	Feb 11, 2013	ND	mg/L	no
Heptachlor + Heptachlor Epoxide	Feb 11, 2013	ND	mg/L	no
Lindane (Total)	Feb 11, 2013	ND	mg/L	no
Malathion	Feb 11, 2013	ND	mg/L	no
Methoxychlor	Feb 11, 2013	ND	mg/L	no
Metolachlor	Feb 11, 2013	ND	mg/L	no
Metribuzin	Feb 11, 2013	ND	mg/L	no
Monochlorobenzene	Feb 11, 2013	ND	mg/L	no



Paraquat	Feb 11, 2013	ND	mg/L	no
Parathion	Feb 11, 2013	ND	mg/L	no
Pentachlorophenol	Feb 11, 2013	ND	mg/L	no
Phorate	Feb 11, 2013	ND	mg/L	no
Picloram	Feb 11, 2013	ND	mg/L	no
Polychlorinated Biphenyls(PCB)	Feb 11, 2013	ND	mg/L	no
Prometryne	Feb 11, 2013	ND	mg/L	no
Simazine	Feb 11, 2013	ND	mg/L	no
THM (NOTE: show latest annual average)	2013	0.0071	mg/L	no
Temephos	Feb 11, 2013	ND	mg/L	no
Terbufos	Feb 11, 2013	ND	mg/L	no
Tetrachloroethylene	Feb 11, 2013	ND	mg/L	no
2,3,4,6-Tetrachlorophenol	Feb 11, 2013	ND	mg/L	no
Triallate	Feb 11, 2013	ND	mg/L	no
Trichloroethylene	Feb 11, 2013	ND	mg/L	no
2,4,6-Trichlorophenol	Feb 11, 2013	ND	mg/L	no
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Feb 11, 2013	ND	mg/L	no
Trifluralin	Feb 11, 2013	ND	mg/L	no
Vinyl Chloride	Feb 11, 2013	ND	mg/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
Fluoride	1.0	mg/L	Feb 9, 2009