



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, 2011

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></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><u>Complete for all other Categories.</u></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 Well Supply Annual Report 2011**

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 Well Supply 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 m³ 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 at the intersection of highways 4 & 8. Replacement of watermain on the Bayfield Road. Extension of Isaac Street watermain to Devon Street.

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
None to report					



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	52	0 – 0	0 – 0	0	
Well #2 Raw	52	0 – 0	0 – 1	0	
Well #3 Raw	53	0 – 0	0 – 0	0	
Treated POE	52	0 – 0	0 - 0	52	0 - 1
Distribution	229	0 – 0	0 - 0	51	0 - 31

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 #)
<u>Turbidity</u>		
Well #1 raw	12	0.23 – 0.63 NTU
Well #2 raw	12	0.11 – 0.44 NTU
Well #3 raw	12	0.10 – 0.48 NTU
Treated	52	0.08 – 0.65 NTU
Distribution	211	0.06 – 0.93 NTU
<u>Chlorine</u>		
Treated	8760	0.56 – 2.00 mg/L
Distribution	360	0.20 – 1.04 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
Radionuclides	Gross Alpha	Feb 8, 2011	< 0.1	Bq/L
	Gross Beta		< 0.1	Bq/L
	Tritium		<15	Bq/L



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 8, 2010	0.0007	mg/L	no
Arsenic	Feb 8, 2010	<0.001	mg/L	no
Barium	Feb 8, 2010	0.2	mg/L	no
Boron	Feb 8, 2010	0.015	mg/L	no
Cadmium	Feb 8, 2010	<0.0001	mg/L	no
Chromium	Feb 8, 2010	<0.005	mg/L	no
*Lead	See below			
Mercury	Feb 8, 2010	<0.0001	mg/L	no
Selenium	Feb 8, 2010	<0.002	mg/L	no
Sodium	April 11 2008	16	mg/L	no
Uranium	Feb 8, 2010	0.0013	mg/L	no
Fluoride	Feb 9, 2009	1.0	mg/L	no
Nitrite	Oct 3, 2011	<0.01	mg/L	no
Nitrate	Oct 3, 2011	2.2	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

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	33	0 – 93 µg/L	2
Distribution	6	0 – 2.4 µg/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	Feb 8, 2010	<0.0005	mg/L	no
Aldicarb	Feb 8, 2010	<0.005	mg/L	no
Aldrin + Dieldrin	Feb 8, 2010	<0.00001	mg/L	no
Atrazine + N-dealkylated metabolites	Feb 8, 2010	<0.001	mg/L	no
Azinphos-methyl	Feb 8, 2010	<0.002	mg/L	no
Bendiocarb	Feb 8, 2010	<0.002	mg/L	no
Benzene	Feb 8, 2010	<0.0001	mg/L	no
Benzo(a)pyrene	Feb 8, 2010	<0.000009	mg/L	no



Ontario Drinking-Water Systems Regulation O. Reg. 170/03 Clinton Well Supply Annual Report 2011

Bromoxynil	Feb 8, 2010	<0.0005	mg/L	no
Carbaryl	Feb 8, 2010	<0.0001	mg/L	no
Carbofuran	Feb 8, 2010	<0.005	mg/L	no
Carbon Tetrachloride	Feb 8, 2010	<0.0001	mg/L	no
Chlordane (Total)	Feb 8, 2010	<0.00001	mg/L	no
Chlorpyrifos	Feb 8, 2010	<0.001	mg/L	no
Cyanazine	Feb 8, 2010	<0.001	mg/L	no
Diazinon	Feb 8, 2010	<0.001	mg/L	no
Dicamba	Feb 8, 2010	<0.001	mg/L	no
1,2-Dichlorobenzene	Feb 8, 2010	<0.0002	mg/L	no
1,4-Dichlorobenzene	Feb 8, 2010	<0.0002	mg/L	no
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Feb 8, 2010	<0.00002	mg/L	no
1,2-Dichloroethane	Feb 8, 2010	<0.0002	mg/L	no
1,1-Dichloroethylene (vinylidene chloride)	Feb 8, 2010	<0.0001	mg/L	no
Dichloromethane	Feb 8, 2010	<0.0005	mg/L	no
2-4 Dichlorophenol	Feb 8, 2010	<0.0005	mg/L	no
2,4-Dichlorophenoxy acetic acid (2,4-D)	Feb 8, 2010	<0.001	mg/L	no
Diclofop-methyl	Feb 8, 2010	<0.0009	mg/L	no
Dimethoate	Feb 8, 2010	<0.003	mg/L	no
Dinoseb	Feb 8, 2010	<0.001	mg/L	no
Diquat	Feb 8, 2010	<0.007	mg/L	no
Diuron	Feb 8, 2010	<0.01	mg/L	no
Glyphosate	Feb 8, 2010	<0.01	mg/L	no
Heptachlor + Heptachlor Epoxide	Feb 8, 2010	<0.00001	mg/L	no
Lindane (Total)	Feb 8, 2010	<0.000006	mg/L	no
Malathion	Feb 8, 2010	<0.005	mg/L	no
Methoxychlor	Feb 8, 2010	<0.0005	mg/L	no
Metolachlor	Feb 8, 2010	<0.0005	mg/L	no
Metribuzin	Feb 8, 2010	<0.005	mg/L	no
Monochlorobenzene	Feb 8, 2010	<0.0001	mg/L	no
Paraquat	Feb 8, 2010	<0.001	mg/L	no
Parathion	Feb 8, 2010	<0.001	mg/L	no
Pentachlorophenol	Feb 8, 2010	<0.0005	mg/L	no
Phorate	Feb 8, 2010	<0.0005	mg/L	no
Picloram	Feb 8, 2010	<0.005	mg/L	no
Polychlorinated Biphenyls(PCB)	Feb 8, 2010	<0.00005	mg/L	no
Prometryne	Feb 8, 2010	<0.0003	mg/L	no
Simazine	Feb 8, 2010	<0.001	mg/L	no
THM (NOTE: show latest annual average)	2011	0.0067	mg/L	no
Temephos	Feb 8, 2010	<0.01	mg/L	no
Terbufos	Feb 8, 2010	<0.0005	mg/L	no



**Ontario Drinking-Water Systems Regulation O. Reg. 170/03
Clinton Well Supply Annual Report 2011**

Tetrachloroethylene	Feb 8, 2010	<0.0001	mg/L	no
2,3,4,6-Tetrachlorophenol	Feb 8, 2010	<0.0005	mg/L	no
Triallate	Feb 8, 2010	<0.001	mg/L	no
Trichloroethylene	Feb 8, 2010	<0.0001	mg/L	no
2,4,6-Trichlorophenol	Feb 8, 2010	<0.0005	mg/L	no
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Feb 8, 2010	<0.001	mg/L	no
Trifluralin	Feb 8, 2010	<0.001	mg/L	no
Vinyl Chloride	Feb 8, 2010	<0.0002	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