

Part III Form 2
Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220006026
Drinking-Water System Name:	Killaloe Water Treatment Plant including distribution system
Drinking-Water System Owner:	Corporation of the Township of Killaloe, Hagarty and Richards
Drinking-Water System Category:	Large, Municipal Residential
Period being reported:	January 1, 2005 – December 31, 2005

<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> <div style="border: 1px solid black; padding: 5px;"> Township of Killaloe, Hagarty & Richards Municipal Office 1 John Street Killaloe, ON K0J 2A0 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div> <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:</p> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p>
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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
No other system receives water from this system	

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 []

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 Killaloe Water Treatment Plant is a single well, groundwater system equipped with greensand contactors providing iron and manganese removal. Disinfection is provided using sodium hypochlorite. PH adjustment equipment is installed but not required or in service.

List all water treatment chemicals used over this reporting period

-Sodium Hypochlorite
-Potassium Permanganate

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

Brief Description	Monetary Expense
Cl2 analyzer probe	\$299.00
Pre cl2 line pressure relief and back pressure valve	\$287.50
Flow switch	\$522.55
Batteries for diesel generator	\$465.20
Plant began upgrades	

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
Jul 21/05	Total Coliform	3	cfu/100mL	Flush and resample	Jul 21/05

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	52	0-0	0-4	52	0-74
Treated	52	0-0	0-0	52	0-89
Distribution	114	0-0	0-3	114	0-9

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 #)
Treated Turbidity	9009	0-4.9*
Treated Free Chlorine	9009	0*-2.2
Distribution Free Chlorine	8874	0*-1.51
Fluoride (If the DWS provides fluoridation)	N/A	N/A

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

*Caused by power failure/maintenance activity

*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	Sample Frequency	Result Avg.	Result (min#)-(max#)	Unit of Measure
Treated	THM's	Quarterly	77.025	31-107	ug/L
Annual Average	Backwash Effluent SS	monthly	4.25	2-7	mg/L
Annual Average	Backwash Effluent pH	monthly	7.78	7.57-8.03	

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	Jan 11/05	<1.00	ug/L	No
Arsenic	Jan 11/05	<1.00	ug/L	No
Barium	Jan 11/05	150.00	ug/L	No

Boron	Jan 11/05	120.00	ug/L	No
Cadmium	Jan 11/05	<0.10	ug/L	No
Chromium	Jan 11/05	1.00	ug/L	No
Lead	Jan 04/05	<1.00	ug/L	No
Mercury	Jan 11/05	<0.10	ug/L	No
Selenium	Jan 11/05	1.00	ug/L	No
Sodium	Jun 10/03	29.70	mg/L	Yes
Uranium	Jan 11/05	3.00	ug/L	No
Fluoride	Jan 08/03	0.40	mg/L	No
Nitrite	Jan 04/05	<0.10	mg/L	No
Nitrite	Apr 04/05	<0.10	mg/L	No
Nitrite	Jul 05/05	<0.10	mg/L	No
Nitrite	Oct 04/05	<0.10	mg/L	No
Nitrate	Jan 04/05	<0.10	mg/L	No
Nitrate	Apr 04/05	<0.10	mg/L	No
Nitrate	Jul 05/05	<0.10	mg/L	No
Nitrate	Oct 04/05	<0.10	mg/L	No

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	Jan 11/05	<0.50	ug/L	No
Aldicarb	Jan 11/05	<9.00	ug/L	No
Aldrin + Dieldrin	Jan 11/05	<0.012	ug/L	No
Atrazine + N-dealkylated metabolites	Jan 11/05	<0.20	ug/L	No
Azinphos-methyl	Jan 11/05	,2.00	ug/L	No
Bendiocarb	Jan 11/05	<2.00	ug/L	No
Benzene	Jan 11/05	<0.50	ug/L	No
Benzo(a)pyrene	Jan 11/05	<0.010	ug/L	No
Bromoxynil	Jan 11/05	<0.50	ug/L	No
Carbaryl	Jan 11/05	<5.00	ug/L	No
Carbofuran	Jan 11/05	<5.00	ug/L	No
Carbon Tetrachloride	Jan 11/05	<0.50	ug/L	No
Chlordane (Total)	Jan 11/05	<0.018	ug/L	No
Chlorpyrifos	Jan 11/05	<1.00	ug/L	No
Cyanazine	Jan 11/05	<1.00	ug/L	No
Diazinon	Jan 11/05	<1.00	ug/L	No
Dicamba	Jan 11/05	<1.00	ug/L	No
1,2-Dichlorobenzene	Jan 11/05	<0.40	ug/L	No
1,4-Dichlorobenzene	Jan 11/05	<0.40	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Jan 11/05	<0.024	ug/L	No
1,2-Dichloroethane	Jan 11/05	<0.50	ug/L	No

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

1,1-Dichloroethylene (vinylidene chloride)	Jan 11/05	<0.50	ug/L	No
Dichloromethane	Jan 11/05	<4.00	ug/L	No
2-4 Dichlorophenol	Jan 11/05	<0.50	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan 11/05	<1.00	ug/L	No
Diclofop-methyl	Jan 11/05	<0.90	ug/L	No
Dimethoate	Jan 11/05	<2.50	ug/L	No
Dinoseb	Jan 11/05	<1.00	ug/L	No
Diquat	Jan 11/05	<7.00	ug/L	No
Diuron	Jan 11/05	<10.00	ug/L	No
Glyphosate	Jan 11/05	<10.00	ug/L	No
Heptachlor + Heptachlor Epoxide	Jan 11/05	<0.012	ug/L	No
Lindane (Total)	Jan 11/05	<0.0060	ug/L	No
Malathion	Jan 11/05	<5.00	ug/L	No
Methoxychlor	Jan 11/05	<0.024	ug/L	No
Metolachlor	Jan 11/05	<0.50	ug/L	No
Metribuzin	Jan 11/05	<5.00	ug/L	No
Monochlorobenzene	Jan 11/05	<0.20	ug/L	No
Paraquat	Jan 11/05	<1.00	ug/L	No
Parathion	Jan 11/05	<1.00	ug/L	No
Pentachlorophenol	Jan 11/05	<0.50	ug/L	No
Phorate	Jan 11/05	<0.50	ug/L	No
Picloram	Jan 11/05	<5.00	ug/L	No
Polychlorinated Biphenyls(PCB)	Jan 11/05	<0.10	ug/L	No
Prometryne	Jan 11/05	<0.25	ug/L	No
Simazine	Jan 11/05	<1.00	ug/L	No
THM (NOTE: show latest annual average)	2005	93.22	ug/L	No
Temephos	Jan 11/05	<10.00	ug/L	No
Terbufos	Jan 11/05	<0.40	ug/L	No
Tetrachloroethylene	Jan 11/05	<0.30	ug/L	No
2,3,4,6-Tetrachlorophenol	Jan 11/05	<0.50	ug/L	No
Triallate	Jan 11/05	<1.00	ug/L	No
Trichloroethylene	Jan 11/05	<0.30	ug/L	No
2,4,6-Trichlorophenol	Jan 11/05	<0.50	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Jan 11/05	<1.00	ug/L	No
Trifluralin	Jan 11/05	<0.40	ug/L	No
Vinyl Chloride	Jan 11/05	<0.20	ug/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

(Only if DWS category is large municipal residential, small municipal residential, large municipal non residential, non municipal year round residential, large non municipal non residential)