

Part III Form 2
Section 11. ANNUAL REPORT. REVISION 1.

Drinking-Water System Number:	220006026
Drinking-Water System Name:	Killaloe Water Treatment Plant including Distribution system.
Drinking-Water System Owner:	Village of Killaloe
Drinking-Water System Category:	Large, municipal, residential
Period being reported:	2003

<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 Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> Twp of Killaloe, Hagarty & Richards 1 John Street Killaloe, Ontario. K0J 2A0 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input style="width: 100px; height: 20px;" 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 style="width: 100px; height: 20px;" 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>
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List Drinking-Water Systems, which receive all of their drinking water from your system:

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 [] 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
- 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, ground water system equipped with greensand contactors providing iron and manganese removal. Disinfection is provided using sodium hypochlorite.

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

Describe

Purchase and installation of an on-line analyzer to monitor free chlorine residual in the distribution system.

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
19 Jun 2003	HPC	>200	cfu	Resample	
04 Dec 2003	THM: Distribution THM: Treated water	>100 >100	ug/L ug/L	Resample	On-going

Microbiological testing done under section 8 (2) during this reporting period

	Number of Samples	Range of E.Coli or Fecal Results (#-#)	Range of Total Coliform Results (#-#)	Number of HPC Samples	Range of HPC Results (#-#)
Raw	52	0 - <1	0 - 5	52	0 - >500
Treated	52	0 - <1	0 - <1	54	0 - 24
Distribution	109	0 - <1	0 - <1	107	0 - >500

Operational testing done under Schedule 7, 8 or 9 during the period covered by this Annual Report.

		Number of Grab Samples	Range of Results (#-#)
Turbidity: Treated Water	Jan 01 – May 31 2003	8760	0 – 5* NTU
Turbidity: Raw Water	Jun 01 - Dec 31 2003	249	0.12 – 3.0 NTU
Chlorine: Treated Water	Jan 01 – May 31 2003	8760	0.47 – 3.74 mg/L
Chlorine: Distribution Sys	Jun 01- Dec 31 2003	8760	0.21 - 1.01 mg/L
Fluoride (If the DWS provides fluoridation)	Fluoridation not practiced.		

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

- Instrument spikes recorded due to maintenance and calibration activities and dissolved air bubbling out of solution.

*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 or order.

		Parameter	Date Sampled	Result (Annual Avg.)	Unit of Measure	Exceedance
C of A	5808-548K4T	THM: Treated	Quarterly*	136.2	ug/L	YES
C of A	5808-548K4T	Contactor Backwash Pond: Suspended Solids	Monthly	3.8	mg/L	NO
C of A	5808-548K4T	Contactor Backwash Pond: BOD	Monthly	1.08	mg/L	NO
POO	P805-010905-01	Selenium: Raw Water	Quarterly**	1 st Q: < 1	ug/L	NO
				4 th Q: < 1	ug/L	NO
POO	P805-010905-01	Selenium: Treated Water	Quarterly**	1 st Q: < 1	ug/L	NO
				4 th Q: < 1	ug/L	NO
POO	P805-010905-01	Selenium: Dist. System	Quarterly**	1 st Q: < 1	ug/L	NO
				4 th Q: < 1	ug/L	NO

* 3rd quarter sample missed

** 2nd & 3rd quarter samples missed

Summary of Inorganic parameters tested during this reporting period or most recent

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Scheduled for testing this year.			
Arsenic	07 Jan 2003	<1.0	ug/L	NO
Barium	07 Jan 2003	170	ug/L	NO
Boron	07 Jan 2003	130	ug/L	NO
Cadmium	07 Jan 2003	<0.1	ug/L	NO
Chromium	07 Jan 2003	10	ug/L	NO
Lead	07 Jan 2003	0.5	ug/L	NO
Lead: Distribution	07 Jan 2003	0.3	ug/L	NO
Mercury	07 Jan 2003	0.1	ug/L	NO

Selenium	07 Jan 2003	1.0	ug/L	NO
Uranium	07 Jan 2003	4.0	ug/L	NO
Fluoride	07 Jan 2003	0.4	mg/L	NO
Nitrite	07 Jan 2003	<0.1	mg/L	NO
Nitrite	15 Apr 2003	<0.1	mg/L	NO
Nitrite	08 July 2003	<0.1	mg/L	NO
Nitrite	07 Oct. 2003	<0.1	mg/L	NO
Nitrate	07 Jan 2003	<0.1	mg/L	NO
Nitrate	15 Apr 2003	<0.1	mg/L	NO
Nitrate	08 July 2003	<0.1	mg/L	NO
Nitrate	07 Oct. 2003	<0.1	mg/L	NO

Summary of Organic parameters sampled during this reporting period or most recent

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	15 Apr 2003	<0.5	ug/L	NO
Aldicarb	15 Apr 2003	<6	ug/L	NO
Aldrin + Dieldrin	15 Apr 2003	<0.05	ug/L	NO
Atrazine + N-dealkylated metabolites	15 Apr 2003	<1	ug/L	NO
Azinphos-methyl	15 Apr 2003	<2	ug/L	NO
Bendiocarb	15 Apr 2003	<5	ug/L	NO
Benzene	15 Apr 2003	<0.5	ug/L	NO
Benzo(a)pyrene	15 Apr 2003	<0.01	ug/L	NO
Bromoxynil	15 Apr 2003	<0.5	ug/L	NO
Carbaryl	15 Apr 2003	<5	ug/L	NO
Carbofuran	15 Apr 2003	<2	ug/L	NO
Carbon Tetrachloride	15 Apr 2003	<0.2	ug/L	NO
Chlordane (Total)	15 Apr 2003	<0.6	ug/L	NO
Chlorpyrifos	15 Apr 2003	<1	ug/L	NO
Cyanazine	15 Apr 2003	<1	ug/L	NO
Diazinon	15 Apr 2003	<2	ug/L	NO
Dicamba	15 Apr 2003	<10	ug/L	NO
1,2-Dichlorobenzene	15 Apr 2003	<0.1	ug/L	NO
1,4-Dichlorobenzene	15 Apr 2003	<0.2	ug/L	NO
Dichlorodiphenyltrichloroethane (DDT) + metabolites	15 Apr 2003	<1	ug/L	NO
1,2-Dichloroethane	15 Apr 2003	<0.1	ug/L	NO
1,1-Dichloroethylene (vinylidene chloride)	15 Apr 2003	<0.1	ug/L	NO
Dichloromethane	15 Apr 2003	<0.3	ug/L	NO
2-4 Dichlorophenol	15 Apr 2003	<0.2	ug/L	NO
2,4-Dichlorophenoxy acetic acid (2,4-D)	15 Apr 2003	<10	ug/L	NO
Diclofop-methyl	15 Apr 2003	<0.9	ug/L	NO
Dimethoate	15 Apr 2003	<2	ug/L	NO
Dinoseb	15 Apr 2003	<1	ug/L	NO
Diquat	15 Apr 2003	<5	ug/L	NO
Diuron	15 Apr 2003	<10	ug/L	NO
Glyphosate	15 Apr 2003	<25	ug/L	NO
Heptachlor + Heptachlor Epoxide	15 Apr 2003	<0.1	ug/L	NO
Linadane (Total)	15 Apr 2003	<0.1	ug/L	NO
Malathion	15 Apr 2003	<10	ug/L	NO
Methoxychlor	15 Apr 2003	<10	ug/L	NO
Metolachlor	15 Apr 2003	<5	ug/L	NO
Metribuzin	15 Apr 2003	<5	ug/L	NO
Monochlorobenzene	15 Apr 2003	<0.2	ug/L	NO
Paraquat	15 Apr 2003	<1	ug/L	NO
Parathion	15 Apr 2003	<5	ug/L	NO

Pentachlorophenol	15 Apr 2003	<0.2	ug/L	NO
Phorate	15 Apr 2003	<0.5	ug/L	NO
Picloram	15 Apr 2003	<10	ug/L	NO
Polychlorinated Biphenyls(PCB)	15 Apr 2003	<0.05	ug/L	NO
Promethyne	15 Apr 2003	<0.2	ug/L	NO
Simazine	15 Apr 2003	<1	ug/L	NO
THM: distribution system (NOTE: show latest quarterly average)	Quarterly	128.3	ug/L	YES
Temephos	15 Apr 2003	<25	ug/L	NO
Terbufos	15 Apr 2003	<0.7	ug/L	NO
Tetrachloroethylene	15 Apr 2003	<0.2	ug/L	NO
2,3,4,6-Tetrachlorophenol	15 Apr 2003	<0.1	ug/L	NO
Triallate	15 Apr 2003	<20	ug/L	NO
Trichloroethylene	15 Apr 2003	<0.1	ug/L	NO
2,4,6-Trichlorophenol	15 Apr 2003	<0.2	ug/L	NO
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	15 Apr 2003	<22	ug/L	NO
Trifluralin	15 Apr 2003	<1	ug/L	NO
Vinyl Chloride	15 Apr 2003	<0.3	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
THM: Treated Water	136.2	ug/L	Quarterly
THM: Dist. System	128.3	ug/L	Quarterly
Please note that when a ½ MAC (Maximum Allowable Concentration) report is generated both Aldicarb and Terbufos appear. This is because the Method Detection Limit used by the laboratory is greater than ½ MAC.			

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