

**Part III Form 2
Section 11. ANNUAL REPORT.**

Drinking-Water System Number:	220001423
Drinking-Water System Name:	KENORA AREA WATER TREATMENT PLANT
Drinking-Water System Owner:	CITY OF KENORA
Drinking-Water System Category:	LARGE MUNICIPAL RESIDENTIAL
Period being reported:	JANUARY 1, 2007 – DECEMBER 31, 2007

<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 [<input checked="" type="checkbox"/>] No []</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [<input checked="" type="checkbox"/>] 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;"> City Hall – 1 Main Street South City of Kenora – Website http://www.kenora.ca Kenora Water Treatment Plant – 9 7th Street South </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <div style="border: 1px solid black; padding: 2px; width: 100px; text-align: center;">N/A</div> </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: <div style="border: 1px solid black; padding: 2px; width: 100px; text-align: center;">N/A</div> </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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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
Rocky Heights Distribution System	N/A

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.

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 Kenora Water Treatment Plant is categorized as Large Municipal Residential. It is designated a Class III plant. The total number of service connections at this time is 6440, with 5,268 currently active, 260 seasonal and 912 inactive. The water plant has a rated capacity of 292 Litres per second. The process is chemically assisted and includes filtration to meet the treatment requirements of O.Reg 170/03 for surface water. The plant uses chloramination to provide secondary disinfection prior to distribution.

List all water treatment chemicals used over this reporting period

Chlorine, Ammonium Sulphate, Aluminum Sulphate, Polyelectrolyte, Sodium Hydroxide, Sodium Silicofluoride.

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

Roof flashing repaired at wall/roof junction for leak prevention for a total cost of \$65957.86.

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	Corrective Action	Resolution Date
June 10/07 Keewatin Public School	Presence of Total Coliform	N/A	N/A	School was advised to flush their water lines. Two consecutive sets of bacteriological samples were taken.	June 20/07 Test results indicated no coliform were present.
Oct. 19/07 Valleyview School	Presence of Total Coliform	N/A	N/A	Boil Water advisory issued. Two consecutive sets of bacteriological samples were taken.	Oct 26/07 Test results indicated no coliform were present.
May 27/07 Private Residence	Lead	14	ug/L	Owner advised to seek alternate source for drinking.	June 19/07
June 26/07 Private Residence Resample for above	Lead	18	ug/L	Owner advised to continue to use alternate source for drinking. Sample taken from meter connection.	Sept 13/07 Incident still under investigation. Further sampling to be conducted.

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 Results (#-#)	Range of Total Coliform Results (#-#)	Number of HPC Samples	Range of HPC Results (#-#)
Raw	54	0 – 22 One result of <100	0 – 300 One result of “overgrown”	0	N/A
Treated	54	Absent	Absent	54	0 – 17
Distribution	342	Absent	Present on one occasion	107	0 – 55 three sample results of >2000

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

	Number of Grab Samples	Range of Results (#-#)	Online Number of Grab Samples	Range of Results (#-#)
Turbidity	365	0.022 – 0.065 NTU	8760	0.024 – 1.967 NTU
Chlorine	365	1.75 – 2.29 mg/L combined chlorine	8760	Chlorines are continuously monitored online, but due to spiking and other unavoidable operational factors it is difficult to state an accurate range. Online readings are physically recorded once daily at the same time as our grab samples. The range of these readings was 1.58 – 2.28 mg/L.
Fluoride (If the DWS provides fluoridation)	365	0.45 – 0.73 mg/L	8760	0.45 – 0.71 mg/L *Readings dipped to 0.06 during periods when fluoride feed was shut off for repairs.

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

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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
Nov 3/2004	Total suspended solids	June 25/07 Aug 13/07 Oct 20/07	98.3 (Average for 2007)	mg/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 6/2007	<1.00	ug/L	No
Arsenic	Feb 6/2007	<1.00	ug/L	No
Barium	Feb 6/2007	10.0	ug/L	No
Boron	Feb 6/2007	<50.0	ug/L	No
Cadmium	Feb 6/2007	<0.10	ug/L	No
Chromium	Feb 6/2007	1.00	ug/L	No
Lead	Feb 6/2007	<1.00	ug/L	No
Mercury	Feb 6/2007	<0.10	ug/L	No
Selenium	Feb 6/2007	<5.00	ug/L	No
Sodium	Jan 31/2005	7.75	mg/L	No
Uranium	Feb 6/2007	<5.00	ug/L	No
Fluoride	Feb 6/2007	0.59	mg/L	No
Nitrite	Feb 6/2007	<0.02	mg/L	No
	May 14/2007	<0.02	mg/L	No
	Aug 7/2007	<0.02	mg/L	No
	Nov 5/2007	<0.02	mg/L	No
Nitrate	Feb 6/2007	0.23	mg/L	No
	May 14/2007	0.13	mg/L	No
	Aug 7/2007	0.04	mg/L	No
	Nov 5/2007	0.22	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	Feb 6/2007	<0.10	ug/L	No
Aldicarb	Feb 6/2007	<9.00	ug/L	No
Aldrin + Dieldrin	Feb 6/2007	<0.04	ug/L	No
Atrazine + N-dealkylated metabolites	Feb 6/2007	<0.20	ug/L	No
Azinphos-methyl	Feb 6/2007	<0.10	ug/L	No
Bendiocarb	Feb 6/2007	<0.20	ug/L	No
Benzene	Feb 6/2007	<0.50	ug/L	No
Benzo(a)pyrene	Feb 6/2007	<0.01	ug/L	No
Bromoxynil	Feb 6/2007	<0.20	ug/L	No
Carbaryl	Feb 6/2007	<0.20	ug/L	No
Carbofuran	Feb 6/2007	<0.20	ug/L	No
Carbon Tetrachloride	Feb 6/2007	<0.50	ug/L	No
Chlordane (Total)	Feb 6/2007	<0.30	ug/L	No
Chlorpyrifos	Feb 6/2007	<0.10	ug/L	No
Cyanazine	Feb 6/2007	<0.10	ug/L	No
Diazinon	Feb 6/2007	<0.10	ug/L	No
Dicamba	Feb 6/2007	<0.20	ug/L	No
1,2-Dichlorobenzene	Feb 6/2007	<0.50	ug/L	No
1,4-Dichlorobenzene	Feb 6/2007	<0.50	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Feb 6/2007	<0.40	ug/L	No
1,2-Dichloroethane	Feb 6/2007	<0.50	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	Feb 6/2007	<0.50	ug/L	No
Dichloromethane	Feb 6/2007	<0.50	ug/L	No
2-4 Dichlorophenol	Feb 6/2007	<0.50	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Feb 6/2007	<0.20	ug/L	No
Diclofop-methyl	Feb 6/2007	<0.20	ug/L	No
Dimethoate	Feb 6/2007	<0.10	ug/L	No
Dinoseb	Feb 6/2007	<0.20	ug/L	No
Diquat	Feb 6/2007	<7.00	ug/L	No
Diuron	Feb 6/2007	<10.0	ug/L	No
Glyphosate	Feb 6/2007	<10.0	ug/L	No
Heptachlor + Heptachlor Epoxide	Feb 6/2007	<0.10	ug/L	No
Lindane (Total)	Feb 6/2007	<0.10	ug/L	No
Malathion	Feb 6/2007	<0.10	ug/L	No
Methoxychlor	Feb 6/2007	<0.10	ug/L	No
Metolachlor	Feb 6/2007	<0.10	ug/L	No
Metribuzin	Feb 6/2007	<0.10	ug/L	No

Monochlorobenzene	Feb 6/2007	<0.50	ug/L	No
Paraquat	Feb 6/2007	<1.00	ug/L	No
Parathion	Feb 6/2007	<0.10	ug/L	No
Pentachlorophenol	Feb 6/2007	<0.50	ug/L	No
Phorate	Feb 6/2007	<0.10	ug/L	No
Picloram	Feb 6/2007	<0.20	ug/L	No
Polychlorinated Biphenyls(PCB)	Feb 6/2007	<0.06	ug/L	No
Prometryne	Feb 6/2007	<0.10	ug/L	No
Simazine	Feb 6/2007	<0.10	ug/L	No
THM First Quarter	Feb 6/2007	46.0	ug/L	N/A
THM Second Quarter	May 14/2007	50.0	ug/L	N/A
THM Third Quarter	Aug 7/2007	73.0	ug/L	N/A
THM Fourth Quarter	Nov 5/2007	56.0	ug/L	N/A
THM	Running Annual Average	56.25	ug/L	No
Temephos	Feb 6/2007	<0.10	ug/L	No
Terbufos	Feb 6/2007	<0.20	ug/L	No
Tetrachloroethylene	Feb 6/2007	<0.50	ug/L	No
2,3,4,6-Tetrachlorophenol	Feb 6/2007	<0.50	ug/L	No
Triallate	Feb 6/2007	<0.10	ug/L	No
Trichloroethylene	Feb 6/2007	<0.50	ug/L	No
2,4,6-Trichlorophenol	Feb 6/2007	<0.50	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Feb 6/2007	<0.20	ug/L	No
Trifluralin	Feb 6/2007	<0.10	ug/L	No
Vinyl Chloride	Feb 6/2007	<0.50	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 Quarterly Average	56.25	ug/L	Feb 6/2007 May 14/2007 Aug 7/2007 Nov 5/2007

(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)