

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

<b>Drinking-Water System Number:</b>	220001423
<b>Drinking-Water System Name:</b>	KENORA AREA WATER TREATMENT PLANT
<b>Drinking-Water System Owner:</b>	CITY OF KENORA
<b>Drinking-Water System Category:</b>	LARGE MUNICIPAL RESIDENTIAL
<b>Period being reported:</b>	JANUARY 1, 2008 – DECEMBER 31, 2008

<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 [<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  <a href="http://www.kenora.ca">http://www.kenora.ca</a>                  Kenora Water Treatment Plant –                  9 7th Street South             </div>	<p><b><u>Complete for all other Categories.</u></b></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**

Recoating and repainting Zone II Standpipe. \$437,000.  
Mould removal and painting inside WTP. \$16,000.

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
Jan 13/08  Poplar St	Watermain Break	N/A	N/A	Line was isolated and relieved of pressure to repair. Affected residents were placed on BWA until two consecutive sample results were received.	Jan 18/08  Test results showed no indicators of adverse water quality.
Mar 14/08  2 <sup>nd</sup> St S / 5 <sup>th</sup> Ave S Hydrant	Lead Adverse	24	ug/L	Resampled hydrant. Suspected lead originated inside hydrant. Flushed thoroughly for resample.	Apr 6/08  Results of resample indicated an acceptable concentration of lead.
Oct 17/08  Main St	Free Chlorine	N/A	mg/L	Valve allowing cross connection was closed. Affected lines were flushed.	Oct 18/08  Further sampling showed acceptable levels of free chlorine.

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	53	0 – 5	0 – 1000	0	N/A
Treated	53	Absent	Absent	53	0 – 4
Distribution	318	Absent	Absent	94	0 – 13

**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	366	0.024 – 0.069 NTU	8760	0.024 – 0.945 NTU
Chlorine	366	1.74 – 2.17 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 were 1.63 – 2.20 mg/L.
Fluoride (If the DWS provides fluoridation)	366	0.32 – 0.79 mg/L	8760	0.48 – 0.84 mg/L *Reading dipped to 0.19 during a period where fluoride feed quit unexpectedly.

*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	Date Sampled	Result	Unit of Measure
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<b>Nov 3/2004</b>	<b>Total suspended solids</b>	<b>No samples were taken as effluent was not discharged to lake in 2008.</b>	<b>N/A</b>	<b>mg/L</b>
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**Summary of Inorganic parameters tested during this reporting period or the most recent sample results**

<b>Parameter</b>	<b>Sample Date</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Exceedance</b>
<b>Antimony</b>	<b>Mar 4/2008</b>	<b>&lt;0.60</b>	<b>ug/L</b>	<b>No</b>
<b>Arsenic</b>	<b>Mar 4/2008</b>	<b>4.00</b>	<b>ug/L</b>	<b>No</b>
<b>Barium</b>	<b>Mar 4/2008</b>	<b>20.0</b>	<b>ug/L</b>	<b>No</b>
<b>Boron</b>	<b>Mar 4/2008</b>	<b>&lt;50.0</b>	<b>ug/L</b>	<b>No</b>
<b>Cadmium</b>	<b>Mar 4/2008</b>	<b>&lt;0.10</b>	<b>ug/L</b>	<b>No</b>
<b>Chromium</b>	<b>Mar 4/2008</b>	<b>&lt;1.00</b>	<b>ug/L</b>	<b>No</b>
<b>Lead</b>	<b>Mar 4/2008</b>	<b>&lt;1.00</b>	<b>ug/L</b>	<b>No</b>
<b>Mercury</b>	<b>Mar 4/2008</b>	<b>&lt;0.10</b>	<b>ug/L</b>	<b>No</b>
<b>Selenium</b>	<b>Mar 4/2008</b>	<b>&lt;5.00</b>	<b>ug/L</b>	<b>No</b>
<b>Sodium</b>	<b>Jan 31/2005</b>	<b>7.75</b>	<b>mg/L</b>	<b>No</b>
<b>Uranium</b>	<b>Mar 4/2008</b>	<b>&lt;5.00</b>	<b>ug/L</b>	<b>No</b>
<b>Fluoride</b>	<b>Jan 31/2005</b>	<b>0.36</b>	<b>mg/L</b>	<b>No</b>
<b>Nitrite</b>	<b>Mar 4/2008</b>	<b>&lt;0.02</b>	<b>mg/L</b>	<b>No</b>
	<b>May 6/2008</b>	<b>&lt;0.02</b>	<b>mg/L</b>	<b>No</b>
	<b>Sept 3/2008</b>	<b>&lt;0.02</b>	<b>mg/L</b>	<b>No</b>
	<b>Nov 3/2008</b>	<b>&lt;0.02</b>	<b>mg/L</b>	<b>No</b>
<b>Nitrate</b>	<b>Mar 4/2008</b>	<b>0.22</b>	<b>mg/L</b>	<b>No</b>
	<b>May 6/2008</b>	<b>0.19</b>	<b>mg/L</b>	<b>No</b>
	<b>Sept 3/2008</b>	<b>&lt;0.03</b>	<b>mg/L</b>	<b>No</b>
	<b>Nov 3/2008</b>	<b>&lt;0.03</b>	<b>mg/L</b>	<b>No</b>

**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	Mar 4/2008	<0.10	ug/L	No
Aldicarb	Mar 4/2008	<9.00	ug/L	No
Aldrin + Dieldrin	Mar 4/2008	<0.04	ug/L	No
Atrazine + N-dealkylated metabolites	Mar 4/2008	<0.20	ug/L	No
Azinphos-methyl	Mar 4/2008	<0.10	ug/L	No
Bendiocarb	Mar 4/2008	<0.20	ug/L	No
Benzene	Mar 4/2008	<0.50	ug/L	No
Benzo(a)pyrene	Mar 4/2008	<0.01	ug/L	No
Bromoxynil	Mar 4/2008	<0.20	ug/L	No
Carbaryl	Mar 4/2008	<0.20	ug/L	No
Carbofuran	Mar 4/2008	<0.20	ug/L	No
Carbon Tetrachloride	Mar 4/2008	<0.50	ug/L	No
Chlordane (Total)	Mar 4/2008	<0.30	ug/L	No
Chlorpyrifos	Mar 4/2008	<0.10	ug/L	No
Cyanazine	Mar 4/2008	<0.10	ug/L	No
Diazinon	Mar 4/2008	<0.10	ug/L	No
Dicamba	Mar 4/2008	<0.20	ug/L	No
1,2-Dichlorobenzene	Mar 4/2008	<0.50	ug/L	No
1,4-Dichlorobenzene	Mar 4/2008	<0.50	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Mar 4/2008	<0.40	ug/L	No
1,2-Dichloroethane	Mar 4/2008	<0.50	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	Mar 4/2008	<0.50	ug/L	No
Dichloromethane	Mar 4/2008	<0.50	ug/L	No
2,4 Dichlorophenol	Mar 4/2008	<0.50	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Mar 4/2008	<0.20	ug/L	No
Diclofop-methyl	Mar 4/2008	<0.20	ug/L	No
Dimethoate	Mar 4/2008	<0.10	ug/L	No
Dinoseb	Mar 4/2008	<0.20	ug/L	No
Diquat	Mar 4/2008	<7.00	ug/L	No
Diuron	Mar 4/2008	<10.0	ug/L	No
Glyphosate	Mar 4/2008	<10.0	ug/L	No
Heptachlor + Heptachlor Epoxide	Mar 4/2008	<0.20	ug/L	No
Lindane (Total)	Mar 4/2008	<0.10	ug/L	No
Malathion	Mar 4/2008	<0.10	ug/L	No
Methoxychlor	Mar 4/2008	<0.10	ug/L	No
Metolachlor	Mar 4/2008	<0.10	ug/L	No
Metribuzin	Mar 4/2008	<0.10	ug/L	No
Monochlorobenzene	Mar 4/2008	<0.50	ug/L	No
Paraquat	Mar 4/2008	<1.00	ug/L	No
Parathion	Mar 4/2008	<0.10	ug/L	No

Pentachlorophenol	Mar 4/2008	<0.50	ug/L	No
Phorate	Mar 4/2008	<0.10	ug/L	No
Picloram	Mar 4/2008	<0.20	ug/L	No
Polychlorinated Biphenyls (PCB)	Mar 4/2008	<0.02	ug/L	No
Prometryne	Mar 4/2008	<0.10	ug/L	No
Simazine	Mar 4/2008	<0.10	ug/L	No
THM First Quarter	Mar 4/2008	43.0	ug/L	N/A
THM Second Quarter	May 6/2008	44.0	ug/L	N/A
THM Third Quarter	Sept 3/2008	59.0	ug/L	N/A
THM Fourth Quarter	Nov 3/2008	49.0	ug/L	N/A
THM	Running Annual Average	48.75	ug/L	No
Temephos	Mar 4/2008	<0.10	ug/L	No
Terbufos	Mar 4/2008	<0.20	ug/L	No
Tetrachloroethylene	Mar 4/2008	<0.50	ug/L	No
2,3,4,6-Tetrachlorophenol	Mar 4/2008	<0.50	ug/L	No
Triallate	Mar 4/2008	<0.10	ug/L	No
Trichloroethylene	Mar 4/2008	<0.50	ug/L	No
2,4,6-Trichlorophenol	Mar 4/2008	<0.50	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Mar 4/2008	<0.20	ug/L	No
Trifluralin	Mar 4/2008	<0.10	ug/L	No
Vinyl Chloride	Mar 4/2008	<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

(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)