

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

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

<b>Drinking-Water System Number:</b>	210003084
<b>Drinking-Water System Name:</b>	Kagawong Water System
<b>Drinking-Water System Owner:</b>	Municipality of Billings
<b>Drinking-Water System Category:</b>	Water Treatment Class 1, Water Distribution Class1
<b>Period being reported:</b>	January 1, 2004 to December 31, 2004

<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 [ ] 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; margin-top: 5px;">       Municipality of Billings        P.O. Box 34        15 Old Mill Rd.        Kagawong, ON        P0P 1J0     </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served:  <div style="border: 1px solid black; width: 100px; text-align: center; margin: 5px;">0</div> </p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve?        Yes [ X ] No [ ]</p> <p>Number of Interested Authorities you report to:  <div style="border: 1px solid black; width: 100px; text-align: center; margin: 5px;">0</div> </p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?        Yes [ X ] No [ ]</p>
---	---

**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
None	

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 [ ]

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

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 water supply is drawn from Mudge Bay of Lake Huron and is chlorinated without chemically assisted filtration (a new water treatment facility is about to be commissioned). The treated water is then pumped into the distribution system, which now contains an elevated water storage tank, and is provided to a population of approximately 330 persons during the summer, and 150 persons in the off-season.

### List all water treatment chemicals used over this reporting period

Sodium Hypochlorite – NSF 60 compliant

### 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

-New chemical dosing pumps and accessories were purchased and installed

-A state of the art \$3.9 million continuous microfiltration membrane water treatment plant is nearing completion

### 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
January 5	Distribution Pressure	<20	psi	Notified SAC, MOH; Resampled; Flushed mains; BWA issued	January 6
January 6	Turbidity	1.578	NTU	Notified SAC, MOH;	January 6

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

				Resampled; Disinfectant increased; Flushed mains; BWA issued	
July 31	Turbidity	6.343	NTU	Notified SAC, MOH; Resampled; Disinfectant increased	July 31
August 6	Turbidity	1.114	NTU	Notified SAC, MOH; Resampled	August 6
August 18	Turbidity	1.100	NTU	Notified SAC, MOH; Resampled	August 19
August 25	Turbidity	1.061	NTU	Notified SAC, MOH; Resampled	August 25
August 26	Turbidity	1.025	NTU	Notified SAC, MOH; Resampled	August 27
August 31	Turbidity	1.011	NTU	Notified SAC, MOH; Resampled	August 31
September 2	Turbidity	1.008	NTU	Notified SAC, MOH; Resampled	September 2
September 6	Turbidity	1.101	NTU	Notified SAC, MOH; Resampled	September 6
September 8	Turbidity	1.904	NTU	Notified SAC, MOH; Resampled	September 8
September 11	Turbidity	2.198	NTU	Notified SAC, MOH; Resampled	September 12
September 15	Turbidity	1.017	NTU	Notified SAC, MOH; Resampled	September 16
October 1	Turbidity	1.020	NTU	Notified SAC, MOH; Resampled	October 2
December 7	Turbidity	1.274	NTU	Notified SAC, MOH; Resampled	December 9
December 8	Distribution Pressure	0	psi	Notified SAC, MOH; Resampled; Disinfectant Increased; Flushed mains; BWA issued	December 8
December 8	Turbidity	1.833	NTU	Notified SAC, MOH; Resampled; BWA issued	December 9
December 11	Turbidity	1.027	NTU	Notified SAC, MOH; Resampled; BWA issued	December 12
December 13	Turbidity	1.074	NTU	Notified SAC, MOH; Resampled; BWA issued	December 13
December 19	Turbidity	1.008	NTU	Notified SAC, MOH; Resampled; BWA issued	December 19

**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 Background Samples	Range of Background Sample Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw	52	0 – 2	0 – >200	0	0	0	0
Treated	52	0	0	47	0 – 24	5	0 – 2
Distribution	107	0	0	48	0	12	0

**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 #)
Turbidity	8760	0.158 – 6.343 NTU
Chlorine	Treated – 8760 Distribution – 422	0.82 – 3.97 mg/L 0.51 – 3.10 mg/L
Fluoride (If the DWS provides fluoridation)	n/a	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.**

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
C of A # 3353-56NT64 (now revoked)	Dissolved Organic Carbon	March 17	1.7	mg/L
	Organic Nitrogen	March 17	0.25	mg/L
	Dissolved Organic Carbon	June 16	2.2	mg/L
	Organic Nitrogen	June 16	0.27	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	March 17	<0.0025	mg/L	NO
Arsenic	March 17	<0.0035	mg/L	NO
Barium	March 17	0.013	mg/L	NO
Boron	March 17	<0.015	mg/L	NO
Cadmium	March 17	<0.0025	mg/L	NO

Chromium	March 17	0.011	mg/L	NO
Lead	March 17	<0.0055	mg/L	NO
Mercury	March 17	<0.0001	mg/L	NO
Selenium	March 17	<0.004	mg/L	NO
Sodium	Sept. 25 / 03	7.9	mg/L	NO
Uranium	March 17	<0.004	mg/L	NO
Fluoride	Sept. 25 / 03	0.1	mg/L	NO
Nitrite	December 15	<0.1	mg/L	NO
Nitrate	December 15	0.4	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
Aalachlor	March 17	<0.5	µg/L	NO
Aldicarb	March 17	<5	µg/L	NO
Aldrin + Dieldrin	March 17	<0.012	µg/L	NO
Atrazine + N-dealkylated metabolites	March 17	<1	µg/L	NO
Azinphos-methyl	March 17	<2	µg/L	NO
Bendiocarb	March 17	<2	µg/L	NO
Benzene	March 17	<0.5	µg/L	NO
Benzo(a)pyrene	March 17	<0.01	µg/L	NO
Bromoxynil	March 17	<0.5	µg/L	NO
Carbaryl	March 17	<5	µg/L	NO
Carbofuran	March 17	>5	µg/L	NO
Carbon Tetrachloride	March 17	<0.5	µg/L	NO
Chlordane (Total)	March 17	<0.012	µg/L	NO
Chlorpyrifos	March 17	<1	µg/L	NO
Cyanazine	March 17	<1	µg/L	NO
Diazinon	March 17	<1	µg/L	NO
Dicamba	March 17	<1	µg/L	NO
1,2-Dichlorobenzene	March 17	<0.5	µg/L	NO
1,4-Dichlorobenzene	March 17	<0.5	µg/L	NO
Dichlorodiphenyltrichloroethane (DDT) + metabolites	March 17	<0.024	µg/L	NO
1,2-Dichloroethane	March 17	<0.5	µg/L	NO
1,1-Dichloroethylene (vinylidene chloride)	March 17	<0.5	µg/L	NO
Dichloromethane	March 17	<1	µg/L	NO
2-4 Dichlorophenol	March 17	<0.5	µg/L	NO
2,4-Dichlorophenoxy acetic acid (2,4-D)	March 17	<1	µg/L	NO
Diclofop-methyl	March 17	<0.9	µg/L	NO
Dimethoate	March 17	<2.5	µg/L	NO

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

Dinoseb	March 17	<1	µg/L	NO
Diquat	March 17	<7	µg/L	NO
Diuron	March 17	<10	µg/L	NO
Glyphosate	March 17	<10	µg/L	NO
Heptachlor + Heptachlor Epoxide	March 17	<0.012	µg/L	NO
Lindane (Total)	March 17	<0.006	µg/L	NO
Malathion	March 17	<5	µg/L	NO
Methoxychlor	March 17	<0.024	µg/L	NO
Metolachlor	March 17	<0.5	µg/L	NO
Metribuzin	March 17	<5	µg/L	NO
Monochlorobenzene	March 17	<0.5	µg/L	NO
Paraquat	March 17	<1	µg/L	NO
Parathion	March 17	<1	µg/L	NO
Pentachlorophenol	March 17	<0.5	µg/L	NO
Phorate	March 17	<0.5	µg/L	NO
Picloram	March 17	<5	µg/L	NO
Polychlorinated Biphenyls(PCB)	March 17	<0.05	µg/L	NO
Prometryne	March 17	<0.25	µg/L	NO
Simazine	March 17	<1	µg/L	NO
THM (NOTE: show latest annual average)	Average	51.25	µg/L	NO
Temephos	March 17	<10	µg/L	NO
Terbufos	March 17	<0.7	µg/L	NO
Tetrachloroethylene	March 17	<0.5	µg/L	NO
2,3,4,6-Tetrachlorophenol	March 17	<0.5	µg/L	NO
Triallate	March 17	<1	µg/L	NO
Trichloroethylene	March 17	<0.5	µg/L	NO
2,4,6-Trichlorophenol	March 17	<0.5	µg/L	NO
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	March 17	<1	µg/L	NO
Trifluralin	March 17	<1	µg/L	NO
Vinyl Chloride	March 17	<0.2	µg/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	86	µg/L	September 15

(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)