

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

Part III Form 2

Section 11. ANNUAL REPORT.

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| Drinking-Water System Number: | 260004293 |
| Drinking-Water System Name: | Wendover Water Treatment Plant |
| Drinking-Water System Owner: | The Corporation of Alfred & Plantagenet |
| Drinking-Water System Category: | Large Municipal Residential |
| Period being reported: | January 1 st to December 31, 2004 |

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes [] No [x]

Is your annual report available to the public at no charge on a web site on the Internet? Yes [] No [x]

Location where Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

Municipal Office
The Township of Alfred &
Plantagenet, PO Box 350, Old Hwy 17
Plantagenet Ontario,
K0B 1L0.

Complete for all other Categories.

Number of Designated Facilities served:

N/A

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes [] No []

Number of Interested Authorities you report to:

N/A

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?

Yes [] No []

List Drinking-Water Systems, which receive all of their drinking water from your 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

[x] Public access/notice via Government Office

[] Public access/notice via a newspaper

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- ☐ Public access/notice via Public Request
☐ Public access/notice via a Public Library
☒ Public access/notice via other method (Municipal Bulletin)

Describe your Drinking-Water System

The Wendover water treatment plant is a surface water treatment facility, rated at a maximum daily flow of 1806 m3/day for raw water higher than 1 degree Celsius and 1517 m3/day for raw water temperatures below 1 degree Celsius and consisting of the following components; Raw water intake, low lift pumping station including three (3) low lift pumps, raw water transmission line, one (1) package treatment plant designed to provide coagulation, flocculation, sedimentation and filtration, a four (4) cell clearwell with a total volume of 252 m3, two (2) vertical turbine high lift pumps, Two (2) horizontal submersible turbine backwash pumps, water storage tank having a 1940 m3 operating capacity, and a chemical feed system consisting of chemical pumps, storage tanks, piping and associated appurtenances to dose alum, polyelectrolyte, soda ash, and sodium hypochlorite. This facility operates under Certificate of Approval # 6476-5JASMM and Permit to Take Water # 96-P-4046.

List all water treatment chemicals used over this reporting period

Phass, Polyelectrolyte, Soda Ash and Sodium Hypochlorite.

Were any significant expenses incurred to?

- ☒ Install required equipment
☒ Repair required equipment
☒ Replace required equipment

Describe

- Installed a new backflow preventor on Prud'homme street
- Repaired chemical feed systems
- Repaired distribution system breaks
- Replaced 3 air release valves at the low lift station
- Purchased a replacement flocculator gear unit

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 |
|---------------|----------------------------|--------|-----------------|---------------------|------------------------|
| 15 Mar 2004 | Suspected Cross Connection | N/A | N/A | Boil Water Advisory | 19 Mar 2004 |
| 3 Jun 2004 | Background | >200 | Cts/100mL | Resample | 3 Jun 2004 |

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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 Or Background Colony Counts | Range of HPC Results (#-#) Or Background Colony Counts |
|--------------|-------------------|--|---------------------------------------|---|--|
| Raw | 52 | >1 - 160 | >1 - 7000 | 0 | 0 |
| Treated | 52 | <1 | <1 | 52 | <1 - 1 |
| Distribution | 161 | <1 | <1 | 52 | <1 - 1 |

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 | 8760 | 0.02 – 5.0 NTU |
| Chlorine | 8760 | 0.44 – 5.0 mg/l |
| Chlorine Residual Distribution System | 8760 | 0.11 – 2.97 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 or order.

| Date of order or C of A | Parameter | Date Sampled | Result | Unit of Measure |
|-------------------------|-----------|--------------|--------|-----------------|
| | | | | |
| | | | | |

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

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------|-------------|--------------|-----------------|------------|
| Antimony | 6 Apr 2004 | <0.001 | mg/l | No |
| Arsenic | 6 Apr 2004 | <0.001 | mg/l | No |
| Barium | 6 Apr 2004 | 0.017 | mg/l | No |
| Boron | 6 Apr 2004 | 0.010 | mg/l | No |
| Cadmium | 6 Apr 2004 | <0.0001 | mg/l | No |
| Chromium | 6 Apr 2004 | 0.001 | mg/l | No |
| Lead | 6 Apr 2004 | 0.0007 | mg/l | No |
| Mercury | 6 Apr 2004 | <0.0001 | mg/l | No |
| Selenium | 6 Apr 2004 | <0.0001 | mg/l | No |
| Sodium | 6 Apr 2004 | 11.5 | mg/l | No |
| Uranium | 6 Apr 2004 | <0.0001 | mg/l | No |

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|----------|-------------|------|------|----|
| Fluoride | 6 Apr 2004 | <0.1 | mg/l | No |
| Nitrite | 12 Jan 2004 | <0.1 | mg/l | No |
| Nitrate | 12 Jan 2004 | <0.1 | mg/l | No |
| Nitrite | 6 Apr 2004 | <0.1 | mg/l | No |
| Nitrate | 6 Apr 2004 | 0.3 | mg/l | No |
| Nitrite | 12 Jul 2004 | <0.1 | mg/l | No |
| Nitrate | 12 Jul 2004 | 0.3 | mg/l | No |
| Nitrite | 5 Oct 2004 | <0.1 | mg/l | No |
| Nitrate | 5 Oct 2004 | 0.3 | 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 | 6 Apr 2004 | <0.0003 | mg/l | No |
| Aldicarb | 6 Apr 2004 | <0.003 | mg/l | No |
| Aldrin + Dieldrin | 6 Apr 2004 | <0.00002 | mg/l | No |
| Atrazine + N-dealkylated metabolites | 6 Apr 2004 | <0.001 | mg/l | No |
| Azinphos-methyl | 6 Apr 2004 | <0.001 | mg/l | No |
| Bendiocarb | 6 Apr 2004 | <0.003 | mg/l | No |
| Benzene | 6 Apr 2004 | <0.0005 | mg/l | No |
| Benzo(a)pyrene | 6 Apr 2004 | <0.000005 | mg/l | No |
| Bromoxynil | 6 Apr 2004 | <0.000094 | mg/l | No |
| Carbaryl | 6 Apr 2004 | <0.003 | mg/l | No |
| Carbofuran | 6 Apr 2004 | <0.001 | mg/l | No |
| Carbon Tetrachloride | 6 Apr 2004 | <0.0002 | mg/l | No |
| Chlordane (Total) | 6 Apr 2004 | <0.00004 | mg/l | No |
| Chlorpyrifos | 6 Apr 2004 | <0.0005 | mg/l | No |
| Cyanazine | 6 Apr 2004 | <0.0005 | mg/l | No |
| Diazinon | 6 Apr 2004 | <0.001 | mg/l | No |
| Dicamba | 6 Apr 2004 | <0.005 | mg/l | No |
| 1,2-Dichlorobenzene | 6 Apr 2004 | <0.0001 | mg/l | No |
| 1,4-Dichlorobenzene | 6 Apr 2004 | <0.0002 | mg/l | No |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites | 6 Apr 2004 | <0.0001 | mg/l | No |
| 1,2-Dichloroethane | 6 Apr 2004 | <0.0001 | mg/l | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 6 Apr 2004 | <0.0001 | mg/l | No |
| Dichloromethane | 6 Apr 2004 | <0.0003 | mg/l | No |
| 2,4-Dichlorophenol | 6 Apr 2004 | <0.0001 | mg/l | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 6 Apr 2004 | <0.005 | mg/l | No |
| Diclofop-methyl | 6 Apr 2004 | <0.0004 | mg/l | No |
| Dimethoate | 6 Apr 2004 | <0.001 | mg/l | No |
| Dinoseb | 6 Apr 2004 | <0.001 | mg/l | No |

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|--|------------|----------|------|----|
| Diquat | 6 Apr 2004 | <0.005 | mg/l | No |
| Diuron | 6 Apr 2004 | <0.005 | mg/l | No |
| Glyphosate | 6 Apr 2004 | <0.025 | mg/l | No |
| Heptachlor + Heptachlor Epoxide | 6 Apr 2004 | <0.0001 | mg/l | No |
| Linadane (Total) | 6 Apr 2004 | <0.0001 | mg/l | No |
| Malathion | 6 Apr 2004 | <0.005 | mg/l | No |
| Methoxychlor | 6 Apr 2004 | <0.0001 | mg/l | No |
| Metolachlor | 6 Apr 2004 | <0.003 | mg/l | No |
| Metribuzin | 6 Apr 2004 | <0.003 | mg/l | No |
| Monochlorobenzene | 6 Apr 2004 | <0.0002 | mg/l | No |
| Paraquat | 6 Apr 2004 | <0.001 | mg/l | No |
| Parathion | 6 Apr 2004 | <0.003 | mg/l | No |
| Pentachlorophenol | 6 Apr 2004 | <0.0001 | mg/l | No |
| Phorate | 6 Apr 2004 | <0.0003 | mg/l | No |
| Picloram | 6 Apr 2004 | <0.005 | mg/l | No |
| Polychlorinated Biphenyls(PCB) | 6 Apr 2004 | <0.00005 | mg/l | No |
| Prometryne | 6 Apr 2004 | <0.0001 | mg/l | No |
| Simazine | 6 Apr 2004 | <0.0005 | mg/l | No |
| THM (NOTE: show latest annual average) | 5 Oct 2004 | 0.074 | mg/l | No |
| Temephos | 6 Apr 2004 | <0.013 | mg/l | No |
| Terbufos | 6 Apr 2004 | <0.0003 | mg/l | No |
| Tetrachloroethylene | 6 Apr 2004 | <0.0002 | mg/l | No |
| 2,3,4,6-Tetrachlorophenol | 6 Apr 2004 | <0.00014 | mg/l | No |
| Triallate | 6 Apr 2004 | <0.01 | mg/l | No |
| Trichloroethylene | 6 Apr 2004 | <0.0001 | mg/l | No |
| 2,4,6-Trichlorophenol | 6 Apr 2004 | <0.0001 | mg/l | No |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T) | 6 Apr 2004 | <0.011 | mg/l | No |
| Trifluralin | 6 Apr 2004 | <0.0005 | mg/l | No |
| Vinyl Chloride | 6 Apr 2004 | <0.0002 | mg/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 |
|-----------|--------------|-----------------|----------------|
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(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)