



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	260004735
Drinking-Water System Name:	PORT BURWELL SECONDARY WATER LINE
Drinking-Water System Owner:	PORT BURWELL SECONDARY WATER SYSTEM BOARD OF MANAGEMENT
Drinking-Water System Category:	WD LARGE MUNICIPAL RESIDENTIAL
Period being reported:	January 1, 2008 to December 31,2008

<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 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: 10px;"> <p>Malahide Municipal office located at 87 John Street south.</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div> <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:</p> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div> <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 all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Bayham Water Distribution System	#260004748
Malahide Water Distribution	#260004774

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 []



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 PORT BURWELL SECONDARY TRANSMISSION MAIN EXTENDS FROM THE ELGIN AREA WATER PLANT THROUGH THE MUNICIPALITIES OF CENTRAL ELGIN, MALAHIDE AND BAYHAM. WHILE THE PIPE IS INTENDED TO BE A “TRANSMISSION MAIN”, THERE ARE A NUMBER OF PRIVATE CONNECTIONS TO THE MAIN. IN ADDITION, THERE ARE A NUMBER OF DISTRIBUTION SYSTEMS OFF THE MAIN SERVERS APPROXIMATELY 169 CONNECTIONS. THE TOTAL POPULATION IN MALAHIDE TOWNSHIP CONNECTED TO THE PORT BURWELL SECONDARY TRANSMISSION MAIN IS ESTIMATED TO BE 750. THE COMMUNITY OF PORT BRUCE, HAS APPROXIMATELY 200 CONNECTIONS, IS FED DIRECTLY OFF THE PORT BURWELL SECONDARY SYSTEM TRANSMISSION MAIN. THERE IS NO STORAGE, PUMPING, OR TREATMENT WORKS IN PORT BRUCE.

THE PORT BURWELL TOWER IS A SINGLE STEEL 1516 m³ ELEVATED WATER TOWER ON THE PORT BURWELL SECONDARY TRANSMISSION MAIN LOCATED NEAR THE INTERSECTION OF CONCESSION AND COUNTY ROAD 42. PORT BURWELL TOWER UPGRADE CONSISTS OF FOLLOWING:
 THE SODIUM HYPOCHLORITE DOSING IS PACED TO A FLOW SIGNAL FROM THE FLOW METER AND RESIDUAL CONTROLLED. THE CHEMICAL SYSTEM IS HOUSED IN AN ABOVE GROUND ENCLOSURE ADJACENT TO THE ROAD THE SECONDARY LINE CONTINUES TO THE MUNICIPAL BOUNDARY OF BAYHAM. THE REMAINING 4 KILOMETERS OF THE SECONDARY SERVES THE COMMUNITIES OF PORT BURWELL AND VIENNA, AND ARE BEYOND THE SCOPE OF THIS REPORT.

List all water treatment chemicals used over this reporting period

SODIUM HYPOCHLORITE



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

EO14 Magnetic meter replaced by FLOWMETRIX was completed at a cost of \$7,500.00.
 Valve replacement was completed at chamber E034 at a cost \$6,000.00.
 Up grades to the SCADA system are on going at this point cost is undetermined.

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
N/A	N/A	N/A	N/A	N/A	N/A

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 HPC Samples	Range of HPC Results (min #)-(max #)
Treated	53	0	0	53	<10- 50
Distribution	110	0	0	55	<10 - 20

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 #)
Chlorine Treated	8760	.24 – >5.01
Cl2 Distribution	365	.21 - >0.36

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
N/A	N/A	N/A	N/A	N/A

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				
Arsenic				
Barium				
Boron				
Cadmium				
Chromium				
*Lead	Jan. 28/08	0.7	µg/L	No
Mercury				
Selenium				
Sodium				
Uranium				
Fluoride				
Nitrite				
Nitrate				

*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

Summary of lead testing under Schedule 15.1 during this reporting period

(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Number of Exceedances
Plumbing	N/A	N/A	N/A
Distribution	N/A	N/A	N/A



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				
Aldicarb				
Aldrin + Dieldrin				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				
Bendiocarb				
Benzene				
Benzo(a)pyrene				
Bromoxynil				
Carbaryl				
Carbofuran				
Carbon Tetrachloride				
Chlordane (Total)				
Chlorpyrifos				
Cyanazine				
Diazinon				
Dicamba				
1,2-Dichlorobenzene				
1,4-Dichlorobenzene				
Dichlorodiphenyltrichloroethane (DDT) + metabolites				
1,2-Dichloroethane				
1,1-Dichloroethylene (vinylidene chloride)				
Dichloromethane				
2,4 Dichlorophenol				
2,4-Dichlorophenoxy acetic acid (2,4-D)				
Diclofop-methyl				
Dimethoate				
Dinoseb				
Diquat				
Diuron				
Glyphosate				
Heptachlor + Heptachlor Epoxide				
Lindane (Total)				
Malathion				
Methoxychlor				
Metolachlor				
Metribuzin				
Monochlorobenzene				
Paraquat				



Parathion				
Pentachlorophenol				
Phorate				
Picloram				
Polychlorinated Biphenyls(PCB)				
Prometryne				
Simazine				
THM (NOTE: show latest annual average)	2008/01/28	25	ug/L	NO
	2008/04/21	26	ug/L	NO
	2008/07/14	28	ug/L	NO
Annual average: is 27.3 µg/L	2008/10/14	30	ug/L	NO
Temphos				
Terbufos				
Tetrachloroethylene				
2,3,4,6-Tetrachlorophenol				
Triallate				
Trichloroethylene				
2,4,6-Trichlorophenol				
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)				
Trifluralin				
Vinyl Chloride				

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
N/A	N/A	N/A	N/A