

OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	220000941
Drinking-Water System Name:	Pembroke Water Purification Plant
Drinking-Water System Owner:	City of Pembroke
Drinking-Water System Category:	Large Municipality
Period being reported:	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 [<input type="checkbox"/>]</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 [<input type="checkbox"/>]</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;"> <p>City Web Site City Hall Water Purification Plant</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input type="text" value="One"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>]</p> <p>Number of Interested Authorities you report to: <input type="text" value="One"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [<input checked="" type="checkbox"/>] No [<input type="checkbox"/>]</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
Township of Laurentian Valley	W260007465

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 Pembroke water plant is located on the Ottawa River and has a capacity of 32,368 m3/d. A conventional surface water plant, four low lift pumps convey the raw water to flocculation, coagulation, sedimentation and dual media filtration. Four high lift pumps feed the distribution and storage facilities at Bell St. Tower and Quarry Road reservoir for system pressure and fire protection.

List all water treatment chemicals used over this reporting period

Aluminum Sulphate (PHAS), Soda Ash, Sodium Silicate,, Chlorine Gas, Sodium Hypochlorite, Sulphuric Acid

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

Normal maintenance, replacement and minor upgrades

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
5 March 2007	Main Break AWQ #70399	0.51	mg/L	Flushed & increased chlorine to 1.3 mg/L	9 March 2007
14 June 2007	Paul's Variety Total Coliform AWQ# 71926	1 TC	mg/L	Increase Chlorine, Flushed & Re-sampled	20 June 2007
28 Aug 2007	THM's at Tower AWQ # 73947	144	ug/L	Re-sampled	5 Sept 2007
12 Sept 2007	THM's at Tower & Quarry Running Average AWQ# 73947 cont'd	180	ug/L	Re-sampled	Sept 2007
12 Oct 2007	224 Metcalfe Total Coliform AWQ #76307	1 TC	mg/L	Re-sampled	22 Oct 2007

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 #)
Raw	52	0-9	0-93		
Treated	52	<0	<0	52	0-3
Distribution	417	<0	<0	417	0-276

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 - 1.09 NTU
Chlorine	8760	0.95 - 1.22 mg/L free
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
Community Lead Testing Program O. Reg. 170/03, Safe Drinking Water Act, 2002	Lead	18 Dec 2007	0.002/<0.001	Mg/L
	Lead	18 Dec 2007	<0.001	Mg/L
	Lead	18 Dec 2007	0.005/0.004	Mg/L
	Lead	18 Dec 2007	0.030/0.037	Mg/L
	Lead	18 Dec 2007	<0.001	Mg/L
	Lead	18 Dec 2007	<0.001	Mg/L
	Lead	18 Dec 2007	<0.001	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	27.3.07	<0.001	mg/L	
Arsenic	27.3.07	<0.001	mg/L	
Barium	27.3.07	0.01	mg/L	
Boron	27.3.07	<0.01	mg/L	
Cadmium	27.3.07	<0.0001	mg/L	
Chromium	27.3.07	0.002	mg/L	
Lead	27.3.07	<0.001	mg/L	
Mercury	27.3.07	<0.0001	mg/L	
Selenium	27.3.07	<0.001	mg/L	
Sodium	30.08.06	20	mg/L	
Uranium	27.3.07	<0.001	mg/L	
Fluoride	30.08.06	<0.01	mg/L	
Nitrite	6.3.07	<0.10	mg/L	
Nitrate	6.3.07	0.17	mg/L	

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	27.3.07	<0.5	ug/L	
Aldicarb	27.3.07	<9	ug/L	
Aldrin + Dieldrin	27.3.07	<0.012	ug/L	
Atrazine + N-dealkylated metabolites	27.3.07	<0.2	ug/L	
Azinphos-methyl	27.3.07	<2	ug/L	
Bendiocarb	27.3.07	<2	ug/L	
Benzene	27.3.07	<0.5	ug/L	
Benzo(a)pyrene	27.3.07	<0.01	ug/L	
Bromoxynil	27.3.07	<0.5	ug/L	
Carbaryl	27.3.07	<5	ug/L	
Carbofuran	27.3.07	<5	ug/L	
Carbon Tetrachloride	27.3.07	<0.5	ug/L	
Chlordane (Total)	27.3.07	<0.018	ug/L	
Chlorpyrifos	27.3.07	<1	ug/L	
Cyanazine	27.3.07	<1	ug/L	
Diazinon	27.3.07	<1	ug/L	
Dicamba	27.3.07	<1	ug/L	
1,2-Dichlorobenzene	27.3.07	<0.4	ug/L	
1,4-Dichlorobenzene	27.3.07	<0.4	ug/L	
Dichlorodiphenyltrichloroethane (DDT) + metabolites	27.3.07	<0.024	ug/L	
1,2-Dichloroethane	27.3.07	<0.5	ug/L	

1,1-Dichloroethylene (vinylidene chloride)	27.3.07	<0.5	ug/L	
Dichloromethane	27.3.07	<4.0	ug/L	
2-4 Dichlorophenol	27.3.07	<0.5	ug/L	
2,4-Dichlorophenoxy acetic acid (2,4-D)	27.3.07	<1	ug/L	
Diclofop-methyl	27.3.07	<0.9	ug/L	
Dimethoate	27.3.07	<2.5	ug/L	
Dinoseb	27.3.07	<1	ug/L	
Diquat	27.3.07	<7	ug/L	
Diuron	27.3.07	<10	ug/L	
Glyphosate	27.3.07	<10	ug/L	
Heptachlor + Heptachlor Epoxide	27.3.07	<0.012	ug/L	
Lindane (Total)	27.3.07	<0.012	ug/L	
Malathion	27.3.07	<5	ug/L	
Methoxychlor	27.3.07	<0.024	ug/L	
Metolachlor	27.3.07	<0.5	ug/L	
Metribuzin	27.3.07	<5	ug/L	
Monochlorobenzene	27.3.07	<0.2	ug/L	
Paraquat	27.3.07	<1	ug/L	
Parathion	27.3.07	<1	ug/L	
Pentachlorophenol	27.3.07	<0.5	ug/L	
Phorate	27.3.07	<0.5	ug/L	
Picloram	27.3.07	<5	ug/L	
Polychlorinated Biphenyls(PCB)	27.3.07	<0.1	ug/L	
Prometryne	27.3.07	<0.25	ug/L	
Simazine	27.3.07	<1	ug/L	
THM (NOTE: show latest annual average)	27.3.07	98.5	ug/L	
Temephos	27.3.07	<10	ug/L	
Terbufos	27.3.07	<0.4	ug/L	
Tetrachloroethylene	27.3.07	<0.3	ug/L	
2,3,4,6-Tetrachlorophenol	27.3.07	<0.5	ug/L	
Triallate	27.3.07	<1	ug/L	
Trichloroethylene				
2,4,6-Trichlorophenol	27.3.07	<0.5	ug/L	
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	27.3.07	<1	ug/L	
Trifluralin	27.3.07	<0.4	ug/L	
Vinyl Chloride	27.3.07	<0.2	ug/L	

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 100ug/L	98.5	ug/L	23.10.07

