

**Optional Annual Report Template**

<b>Drinking-Water System Number:</b>	220004830
<b>Drinking-Water System Name:</b>	Port Perry Groundwater Supply
<b>Drinking-Water System Owner:</b>	Regional Municipality of Durham
<b>Drinking-Water System Category:</b>	Large Municipal Residential System
<b>Period being reported:</b>	January 1 to December 31, 2007

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p><b>Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [✓]</b></p> <p><b>Is your annual report available to the public at no charge on a web site on the Internet? Yes [✓] No [ ]</b></p> <p><b>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</b></p> <div style="border: 1px solid black; padding: 5px;">                 Regional Municipality of Durham                  Works Department                  605 Rossland Rd. E.                  5<sup>th</sup> Floor                  Whitby, Ontario                  L1N 6A3             </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p><b>Number of Designated Facilities served:</b></p> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div> <p><b>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]</b></p> <p><b>Number of Interested Authorities you report to:</b></p> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div> <p><b>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ]</b></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

**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** – Durham Region Works Dept.
- 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** – Bi-annual newsletter to residents

**Describe your Drinking-Water System**

The **Port Perry Well Supply System** is a groundwater treatment facility that supplies quality potable water to approximately 9,299 consumers in the Communities of Port Perry and Prince Albert in the Township of Scugog.

The three (3) production wells have a total combined rated capacity of 11,781 m<sup>3</sup>/day (2.6 MIGD). The treatment process includes: chlorination and iron sequestering at each well facility. The **distribution system** delivers the treated water through approximately 64 kilometres of watermains and includes a 2,223m<sup>3</sup> standpipe for storage and pressure equalization.

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

Sodium hypochlorite (disinfectant)  
Sodium silicate (iron sequestration)

**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**

Diesel Generator - \$306,000  
New wellhouse at Well #5 - \$50,000

**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 of Measure	Corrective Action	Corrective Action Date
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**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 MF	Range of Total Coliform Results MF	E.Coli Results P/A	Total Coliform Results P/A	Number of HPC Samples	Range of HPC Results (min #)-(max #)	Number of BKG Samples	Range of BKG Results (min #)-(max #)
<b>Raw</b>	156	<1-<1	<1-<1	--	--	--	--	156	< 1-4
<b>Treated</b>	156	--	--	A	A	156	<1-110	--	--
<b>Distribution</b>	260	--	--	A	A	122	<1-320	--	--
	4	<1-<1	<1-<1						

MF: Membrane Filter; P/A Presence/Absence; BKG: Background Bacteria; HPC: Heterotrophic Bacteria; M: Estimated Count

**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 #)
<b>Turbidity – raw water</b>	156	0.05–0.49 NTU
<b>Free Chlorine – Plant*</b>	925	1.09-3.2
<b>Free Chlorine - Distribution</b>	673	0.60–1.89
<b>Fluoride</b> (If the DWS provides fluoridation)	--	

*NOTE: For continuous monitors use 8760 as the number of samples.*

\*Chlorine residuals entering the distribution system are continuously monitored by on-line equipment

*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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**Summary of Inorganic parameters tested during this reporting period or the most recent sample results**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance	Number of Samples
<b>Antimony</b>	Apr 24	<0.0004	mg/L	No	3
<b>Arsenic</b>	Apr 24	<0.0004	mg/L	No	3
<b>Barium</b>	Apr 24	0.166-0.177	mg/L	No	3
<b>Boron</b>	Apr 24	<0.001-0.002	mg/L	No	3
<b>Cadmium</b>	Apr 24	<0.0001-0.0001	mg/L	No	3

<b>Chromium</b>	Apr 24	<0.0003	mg/L	No	3
<b>Lead - Distribution</b>	Jun 19	<0.0007	mg/L	No	1
<b>Mercury</b>	Apr 24	<0.01	ug/L	No	3
<b>Selenium</b>	Apr 24	<0.002	mg/L	No	3
<b>Sodium</b>	Mar 13 – Dec 4	7.96-17.4	mg/L	No	15
<b>Uranium</b>	Apr 24	<0.002	mg/L	No	3
<b>Fluoride</b>	Jan 30 – Oct 31	0.05-0.11	mg/L	No	12
<b>Nitrite</b>	Jan 30 – Oct 31	<0.002-<0.05	mg/L	No	12
<b>Nitrate</b>	Jan 30 – Oct 31	<0.01-0.17	mg/L	No	12

**Summary of Organic parameters sampled during this reporting period or the most recent sample results**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance	Number of Samples
<b>Alachlor</b>	Apr 17	<0.4	ug/L	No	3
<b>Aldicarb</b>	Apr 17	<3.5	ug/L	No	3
<b>Aldrin + Dieldrin</b>	Apr 17	<0.006	ug/L	No	3
<b>Atrazine + N-dealkylated metabolites</b>	Apr 17	<0.1	ug/L	No	3
<b>Azinphos-methyl</b>	Apr 17	<0.2	ug/L	No	3
<b>Bendiocarb</b>	Apr 17	<3.0	ug/L	No	3
<b>Benzene</b>	May 8	<0.1	ug/L	No	3
<b>Benzo(a)pyrene</b>	Apr 17	<0.01	ug/L	No	3
<b>Bromoxynil</b>	Apr 17	<0.4	ug/L	No	3
<b>Carbaryl</b>	Apr 17	<0.2	ug/L	No	3
<b>Carbofuran</b>	Apr 17	<4.0	ug/L	No	3
<b>Carbon Tetrachloride</b>	May 8	<0.2	ug/L	No	3
<b>Chlordane (Total)</b>	Apr 17	<0.006	ug/L	No	3
<b>Chlorpyrifos</b>	Apr 17	<0.2	ug/L	No	3
<b>Cyanazine</b>	Apr 17	<0.2	ug/L	No	3
<b>Diazinon</b>	Apr 17	<0.2	ug/L	No	3
<b>Dicamba</b>	Apr 17	<0.4	ug/L	No	3
<b>1,2-Dichlorobenzene</b>	May 8	<0.1	ug/L	No	3
<b>1,4-Dichlorobenzene</b>	May 8	<0.1	ug/L	No	3
<b>Dichlorodiphenyltrichloroethane (DDT) + metabolites</b>	Apr 17	<0.008	ug/L	No	3
<b>1,2-Dichloroethane</b>	May 8	<0.1	ug/L	No	3
<b>1,1-Dichloroethylene (vinylidene chloride)</b>	May 8	<0.3	ug/L	No	3
<b>Dichloromethane</b>	May 8	<0.5	ug/L	No	3
<b>2,4-Dichlorophenol</b>	Apr 17	<0.4	ug/L	No	3
<b>2,4-Dichlorophenoxy acetic acid (2,4-D)</b>	Apr 17	<0.8	ug/L	No	3
<b>Diclofop-methyl</b>	Apr 17	<0.4	ug/L	No	3
<b>Dimethoate</b>	Apr 17	<0.3	ug/L	No	3
<b>Dinoseb</b>	Apr 17	<0.5	ug/L	No	3
<b>Diquat</b>	Apr 17	<0.1	ug/L	No	3
<b>Diuron</b>	Apr 17	<0.2	ug/L	No	3

<b>Glyphosate</b>	Apr 17	<2.0	ug/L	No	3
<b>Heptachlor + Heptachlor Epoxide</b>	Apr 17	<0.008	ug/L	No	3
<b>Lindane (Total)</b>	Apr 17	<0.005	ug/L	No	3
<b>Malathion</b>	Apr 17	<0.2	ug/L	No	3
<b>Methoxychlor</b>	Apr 17	<0.009	ug/L	No	3
<b>Metolachlor</b>	Apr 17	<0.2	ug/L	No	3
<b>Metribuzin</b>	Apr 17	<0.08	ug/L	No	3
<b>Monochlorobenzene</b>	May 8	<0.1	ug/L	No	3
<b>Paraquat</b>	Apr 17	<0.1	ug/L	No	3
<b>Parathion</b>	Apr 17	<0.2	ug/L	No	3
<b>Pentachlorophenol</b>	Apr 17	<0.4	ug/L	No	3
<b>Phorate</b>	Apr 17	<0.2	ug/L	No	3
<b>Picloram</b>	Apr 17	<0.7	ug/L	No	3
<b>Polychlorinated Biphenyls(PCB)</b>	Apr 17	<0.02	ug/L	No	3
<b>Prometryne</b>	Apr 17	<0.08	ug/L	No	3
<b>Simazine</b>	Apr 17	<0.08	ug/L	No	3
<b>THM – Distribution</b> (NOTE: show latest annual average)	Jan 30 – Oct 31	20	ug/L	No	4
<b>Temephos</b>	Apr 17	<3	ug/L	No	3
<b>Terbufos</b>	Apr 17	<0.2	ug/L	No	3
<b>Tetrachloroethylene</b>	May 8	<0.3	ug/L	No	3
<b>2,3,4,6-Tetrachlorophenol</b>	Apr 17	<0.5	ug/L	No	3
<b>Triallate</b>	Apr 17	<2.0	ug/L	No	3
<b>Trichloroethylene</b>	Apr 17	<0.1	ug/L	No	3
<b>2,4,6-Trichlorophenol</b>	Apr 17	<0.5	ug/L	No	3
<b>2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)</b>	Apr 17	<0.5	ug/L	No	3
<b>Trifluralin</b>	Apr 17	<0.006	ug/L	No	3
<b>Vinyl Chloride</b>	May 8	<0.2	ug/L	No	3

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)**