

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

Drinking-Water System Number:	210000639
Drinking-Water System Name:	Rockland Water treatment Plant
Drinking-Water System Owner:	The Corporation of the City of Clarence-Rockland
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1 st to December 31, 2009

<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 [x] No []</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 Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> Municipal Office The City of Clarence-Rockland 1560 Laurier Street Rockland K4K 1P7 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; padding: 2px; width: 100px; margin: 5px auto;">N/A</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; padding: 2px; width: 100px; margin: 5px auto;">N/A</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 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.

- [x] 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

Serving the residents of The City of Clarence-Rockland this surface water treatment plant is capable of supplying water at a rate of 13,500 m³/day and consists of the following components; Raw water intake, low lift pumping station including Four (4) vertical turbine pumps, two (2) treatment Actiflow trains followed by two (2) rapid dual media gravity filters, one (1) UV disinfection system consisting of two (2) units, one (1) 233.5 m³ chlorine contact tank, two (2) reservoirs having a total capacity of approximately 395 m³, one (1) booster pumping station complete with three (3) centrifugal pumps and a chloramination chemical feed system, two (2) standby diesel power generator located at booster station & water treatment plant respectively and a chemical feed system consisting of chemical pumps, storage tanks, piping and associated appurtenances to dose Pre-Hydroxylated Aluminum Sulfate, Polyelectrolyte, Sodium Hydroxide, Ammonium Sulphate and Sodium Hypochlorite. This facility operates under Certificate of Approval # 0432 – 7CLKKM and Permit to Take Water # 2563 – 7H9QE8.

List all water treatment chemicals used over this reporting period

Pre-Hydroxylated Aluminum Sulfate, Polyelectrolyte, Sodium hydroxide, Ammonium Sulfate and Sodium Hypochlorite.

Were any significant expenses incurred to?

- Install required equipment
 Repair required equipment
 Replace required equipment

Describe

- Replaced heater & pressure transmitter at Rockland tower in Jan, Feb
- Broken 4" water main in St-Pascal, Chemin du lac and Maisonneuve March 11th
- Installed transmittance meter for UV in April
- UDF performed by Hydra-Spec July & August
- Hydra –Spec repaired 31 hydrants in Rockland in September
- Replaced treated flow meter February 2nd

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
28 June 09	Loss of Pressure			Restored pressure, Flushed and sampled	28 June 09
6 August 09	Loss of Pressure			Restored pressure, Flushed and sampled	6 August 09
23 Sept. 09	Total Coliforms	1	Cts/100ml	Re Sample	23 Sept. 09
30 Dec. 09	Total Coliforms	1	Cts/100ml	Re Sample	30 Dec. 09

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	0 - 396	0 - 2700		
Treated	52	0 - 0	0 - 0	52	0 - 500
Distribution	419	0 - 0	0 - 1	157	0 - 186

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	0.07 - 0.28 NTU
Chlorine	8760	0.95 - 2.3 mg/l
Chlorine Residual Distribution System	8760	0.1 - 2.88 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
9 Jul 2004 (C of A)	Suspended Solids	27 Feb 09	4	mg/l
9 Jul 2004 (C of A)	Suspended Solids	30 Mar 09	<3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	21 Apr 09	<3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	28 May 09	<3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	23 Jun 09	<3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	14 Jul 09	<3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	18 Aug 09	3	mg/l
9 Jul 2004 (C of A)	Suspended Solids	30 Sep 09	6	mg/l
9 Jul 2004 (C of A)	Suspended Solids	30 Oct 09	6	mg/l
9 Jul 2004 (C of A)	Suspended Solids	23 Nov 09	6	mg/l
9 Jul 2004 (C of A)	Suspended Solids	22 Dec 09	4	mg/l

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	21 April 09	<0.0001	mg/l	No
Arsenic	21 April 09	0.0003	mg/l	No
Barium	21 April 09	0.011	mg/l	No
Boron	21 April 09	0.011	mg/l	No
Cadmium	21 April 09	<0.00002	mg/l	No
Chromium	21 April 09	<0.002	mg/l	No
Mercury	21 April 09	<0.00002	mg/l	No
Selenium	21 April 09	<0.0002	mg/l	No
Uranium	21 April 09	0.00029	mg/l	No
Nitrite	3 Feb 09	<0.1	mg/l	No
Nitrate	3 Feb 09	0.3	mg/l	No
Nitrite	21 April 09	<0.1	mg/l	No
Nitrate	21 April 09	<0.1	mg/l	No
Nitrite	14 Jul 09	<0.1	mg/l	No
Nitrate	14 Jul 09	0.2	mg/l	No
Nitrite	6 Oct 09	<0.1	mg/l	No
Nitrate	6 Oct 09	0.2	mg/l	No

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	121	<0.00002 – 0.121	1
Distribution	24	<0.00002 – 0.00993	0

Summary of Organic parameters sampled during this reporting period or most recent

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	21 April 09	<0.0003	mg/l	No
Aldicarb	21 April 09	<0.003	mg/l	No
Aldrin + Dieldrin	21 April 09	<0.00002	mg/l	No
Atrazine + N-dealkylated metabolites	21 April 09	<0.0005	mg/l	No
Azinphos-methyl	21 April 09	<0.001	mg/l	No
Bendiocarb	21 April 09	<0.003	mg/l	No
Benzene	21 April 09	<0.0005	mg/l	No
Benzo(a)pyrene	21 April 09	<0.000005	mg/l	No
Bromoxynil	21 April 09	<0.0003	mg/l	No
Carbaryl	21 April 09	<0.003	mg/l	No
Carbofuran	21 April 09	<0.001	mg/l	No
Carbon Tetrachloride	21 April 09	<0.0002	mg/l	No
Chlordane (Total)	21 April 09	<0.00004	mg/l	No
Chlorpyrifos	21 April 09	<0.0005	mg/l	No
Cyanazine	21 April 09	<0.0005	mg/l	No
Diazinon	21 April 09	<0.001	mg/l	No
Dicamba	21 April 09	<0.005	mg/l	No
1,2-Dichlorobenzene	21 April 09	<0.0001	mg/l	No
1,4-Dichlorobenzene	21 April 09	<0.0002	mg/l	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	21 April 09	<0.0001	mg/l	No
1,2-Dichloroethane	21 April 09	<0.0001	mg/l	No
1,1-Dichloroethylene (vinylidene chloride)	21 April 09	<0.0001	mg/l	No
Dichloromethane	21 April 09	<0.0003	mg/l	No
2-4 Dichlorophenol	21 April 09	<0.0001	mg/l	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	21 April 09	<0.005	mg/l	No
Diclofop-methyl	21 April 09	<0.0005	mg/l	No
Dimethoate	21 April 09	<0.001	mg/l	No
Dinoseb	21 April 09	<0.0005	mg/l	No
Diquat	21 April 09	<0.005	mg/l	No
Diuron	21 April 09	<0.005	mg/l	No
Glyphosate	21 April 09	<0.025	mg/l	No
Heptachlor + Heptachlor Epoxide	21 April 09	<0.0001	mg/l	No
Linadane (Total)	21 April 09	<0.0001	mg/l	No
Malathion	21 April 09	<0.005	mg/l	No
Methoxychlor	21 April 09	<0.0001	mg/l	No
Metolachlor	21 April 09	<0.003	mg/l	No
Metribuzin	21 April 09	<0.003	mg/l	No
Monochlorobenzene	21 April 09	<0.0002	mg/l	No
Paraquat	21 April 09	<0.001	mg/l	No

Parathion	21 April 09	<0.003	mg/l	No
Pentachlorophenol	21 April 09	<0.0001	mg/l	No
Phorate	21 April 09	<0.0003	mg/l	No
Picloram	21 April 09	<0.005	mg/l	No
Polychlorinated Biphenyls(PCB)	21 April 09	<0.00005	mg/l	No
Prometryne	21 April 09	<0.0001	mg/l	No
Simazine	21 April 09	<0.0005	mg/l	No
THM (NOTE: show latest annual average)	6 Oct. 09	0.068	mg/l	No
Temephos	21 April 09	<0.010	mg/l	No
Terbufos	21 April 09	<0.0003	mg/l	No
Tetrachloroethylene	21 April 09	<0.0002	mg/l	No
2,3,4,6-Tetrachlorophenol	21 April 09	<0.0001	mg/l	No
Triallate	21 April 09	<0.010	mg/l	No
Trichloroethylene	21 April 09	<0.0001	mg/l	No
2,4,6-Trichlorophenol	21 April 09	<0.0001	mg/l	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	21 April 09	<0.010	mg/l	No
Trifluralin	21 April 09	<0.0005	mg/l	No
Vinyl Chloride	21 April 09	<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

(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)