



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	260002213
Drinking-Water System Name:	Ansnoeveldt Water Supply System
Drinking-Water System Owner:	Regional Municipality of York (York Region)
Drinking-Water System Category:	Small Municipal Residential
Period being reported:	January 1, 2009 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 [] 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;"> <p>Regional Municipality of York Administrative Building Environmental Services Department 17250 Yonge Street Newmarket, Ontario</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: <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p>
--	---

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
Ansnoeveldt Distribution System	260034372

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

Ansnorveldt is a rural community. It is located centrally in the Holland Marsh on Dufferin Street, North of Highway #9 in the Township of King.

Water is supplied through two wells and services less than 60 homes, a school, church and a library. Water withdrawal from each of the wells is regulated by a Permit to Take Water issued by the Ministry of the Environment. York Region is the wholesale supplier of water to the community of Ansnorveldt and is responsible for the supply, production, treatment and storage of water.

Water treatment for the Ansnorveldt wells includes the addition of chlorine for disinfection. The water from the wells combine, it is treated then pumped into a shallow concrete reservoir. High lift pumps deliver the water to the distribution system.

The Township of King owns and operates the distribution system that delivers the water from the regional watermains to homes in Ansnorveldt.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite 12%

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

Some of the following expenditures represent only part of the total project costs.



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
May 27, 2009	System Pressure	<25	psi	Restored Station power	May 27, 2009
October 30, 2009	Sodium >20.0 mg/L	40.3	Mg/L	Re-sampled – results still over reported to SAC	November 3, 2009

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	104	0	0		
Treated	52	0	0	52	1-1
Distribution					

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 (Treated)	8760	0.007 – 1.648
Turbidity (Raw)	24	0.15 – 1.12
Chlorine	8760	0.064 – 4.162
Fluoride (If the DWS provides fluoridation)		

***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

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



Note: See attached results for Inorganic parameters

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony				
Arsenic				
Barium				
Boron				
Cadmium				
Chromium				
Lead				
Mercury				
Selenium				
Sodium				
Uranium				
Fluoride				
Nitrite				
Nitrate				

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			
Distribution			

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

Note: See attached results for Organic parameters (THM value in table below)

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) Ansnorveldt Wells #1 & 2		0.048	Mg/L	
Temephos				
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				

York Region monitors another group of disinfection by-products called haloacetic acids (HAAs). There are no limits set for HAAs in Ontario Drinking Water Standards.

Haloacetic acid	Wells #1 and #2 Mg/L June 30
Bromochloroacetic acid	0.005
Dibromoacetic acid	0.005
Dichloroacetic acid	<0.004
Monobromoacetic acid	<0.004
Monochloroacetic acid	<0.02
Trichloroacetic acid	<0.004

“<” indicates the result is below the Method Detection Limit

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)



Inorganics Test Results

Reading	Units	ODWS		21/01/2009	27/04/2009	13/07/2009	26/10/2009	03/11/2009
Antimony as Sb	mg/L	0.006	IMAC	0.0005	0.0003	0.0003	0.0005	
Arsenic as As	mg/L	0.025	IMAC	0.0011	0.0004	0.0011	0.0008	
Barium as Ba	mg/L	1	MAC		0.122			
Boron as B	mg/L	5	IMAC		0.147			
Cadmium as Cd	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001	
Chromium as Cr	mg/L	0.05	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001	
Fluoride as F	mg/L	0.8	MAC	0.22	0.23	0.264	0.238	
Lead as Pb	mg/L	0.01	MAC	0.0001	0.0001	0.001	0.0001	
Mercury as Hg	mg/L	0.001	MAC		< 0.00002			
Nitrate + Nitrite as N	mg/L	10	MAC	0.02	0.05	0.04	0.02	
Nitrate as N	mg/L	10	MAC	0.02	0.05	0.036	0.019	
Nitrite	mg/L	1	MAC	< 0.01	< 0.01	< 0.002	< 0.002	
Selenium as Se	mg/L	0.01	MAC	0.0042	0.0009	0.003	0.0028	
Sodium as Na	mg/L	200	AO	40.3	40.4	41.2	40.3	40.6
Uranium as U	mg/L	0.02	MAC		< 0.0001			

"<": indicates the result is below Method Detection Limit
 ODWS: Ontario Drinking Water Standard
 MAC: Ontario Drinking Water Standard - Health Related (Maximum Acceptable Concentration)
 AO: Ontario Drinking Water Standard - Non Health Related (Aesthetic Objective)
 mg/L: milligrams per litre, parts permillion (ppm)



Organics Test Results

Reading	Units	ODWS	21/01/2009	27/04/2009	13/07/2009	26/10/2009
(DDT) + Metabolites	mg/L	0.03	MAC		< 0.000008	
1,1-dichloroethylene (vinylidene chloride)	mg/L	0.014	MAC	< 0.0003	< 0.0003	< 0.0003
1,2-(o-dcb) Dichlorobenzene	mg/L	0.2	MAC	< 0.0001	< 0.0001	< 0.0001
1,2-Dichloroethane	mg/L	0.005	IMAC	< 0.0001	< 0.0001	< 0.0001
1,4-(p-dcb) Dichlorobenzene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001
2,3,4,6-Tetrachlorophenol	mg/L	0.1	MAC		< 0.0005	
2,4,5-trichlorophenoxyacetic acid (2,4,5-T)	mg/L	0.28	MAC		< 0.0005	
2,4,6-Trichlorophenol	mg/L	0.005	MAC		< 0.0005	
2,4-Dichlorophenol	mg/L	0.9	MAC		< 0.0007	
2,4-dichlorophenoxyacetic acid (2,4-D)	mg/L	0.1	IMAC		< 0.0008	
Alachlor	mg/L	0.005	IMAC		< 0.0004	
Aldicarb	mg/L	0.009	MAC		< 0.0045	
Aldrin + Dieldrin	mg/L	0.0007	MAC		< 0.000006	
Atrazine + N-dealkylated metabolites	mg/L	0.005	IMAC		< 0.0002	
Azinphos-methyl	mg/L	0.02	MAC		< 0.0003	
Bendiocarb	mg/L	0.04	MAC		< 0.003	
Benzene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001
Benzo(a)pyrene	mg/L	0.00001	MAC		< 0.00001	
Bromoxynil	mg/L	0.005	IMAC		< 0.0004	
Carbaryl	mg/L	0.09	MAC		< 0.003	
Carbofuran	mg/L	0.09	MAC		< 0.003	
Carbon Tetrachloride	mg/L	0.005	MAC	< 0.0002	< 0.0002	< 0.0002
Chlordane (Total)	mg/L	0.007	MAC		< 0.000006	
Chlorpyrifos	mg/L	0.09	MAC		< 0.0002	
Cyanazine	mg/L	0.01	IMAC		< 0.0003	
Diazinon	mg/L	0.02	MAC		< 0.0002	
Dicamba	mg/L	0.12	MAC		< 0.0004	
Dichloromethane	mg/L	0.05	MAC	< 0.0005	< 0.0005	< 0.0005
Diclofop-methyl	mg/L	0.009	MAC		< 0.0004	
Dimethoate	mg/L	0.02	IMAC		< 0.0003	
Dinoseb	mg/L	0.01	MAC		< 0.0005	
Diquat	mg/L	0.07	MAC		< 0.001	
Diuron	mg/L	0.15	MAC		< 0.003	
Glyphosate	mg/L	0.28	IMAC		< 0.025	
Heptachlor + Heptachlor Epoxide	mg/L	0.003	MAC		< 0.000008	
Lindane	mg/L	0.004	MAC		< 0.000005	
Malathion	mg/L	0.19	MAC		< 0.0002	
Methoxychlor	mg/L	0.9	MAC		< 0.000009	
Metolachlor	mg/L	0.05	IMAC		< 0.0002	
Metribuzin	mg/L	0.08	MAC		< 0.0003	
Monochlorobenzene	mg/L	0.08	MAC	< 0.0001	< 0.0001	< 0.0001
Paraquat	mg/L	0.01	IMAC		< 0.001	
Parathion	mg/L	0.05	MAC		< 0.0002	



Organics Test Results

Reading	Units	ODWS		21/01/2009	27/04/2009	13/07/2009	26/10/2009
Pentachlorophenol	mg/L	0.06	MAC			< 0.0004	
Phorate	mg/L	0.002	IMAC			< 0.0002	
Picloram	mg/L	0.19	IMAC			< 0.0007	
Polychlorinated Biphenyls (PCBs)	mg/L	0.003	IMAC			< 0.00002	
Prometryne	mg/L	0.001	IMAC			< 0.0002	
Simazine	mg/L	0.01	IMAC			< 0.0002	
Temephos	mg/L	0.28	IMAC			< 0.003	
Terbufos	mg/L	0.001	IMAC			< 0.0002	
Tetrachloroethylene (perchloroethylene)	mg/L	0.03	MAC	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Triallate	mg/L	0.23	MAC			< 0.004	
Trichloroethene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Trifluralin	mg/L	0.045	IMAC			< 0.000006	
Vinyl Chloride	mg/L	0.002	MAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002

"<": indicates the result is below Method Detection Limit

ODWS: Ontario Drinking Water Standard

MAC: Ontario Drinking Water Standard - Health Related (Maximum Acceptable Concentration)

AO: Ontario Drinking Water Standard - Non Health Related (Aesthetic Objective)

mg/L: milligrams per litre, parts permillion (ppm)