



**OPTIONAL ANNUAL REPORT TEMPLATE**

<b>Drinking-Water System Number:</b>	260002213
<b>Drinking-Water System Name:</b>	Ansnoeveldt Water Supply System
<b>Drinking-Water System Owner:</b>	Regional Municipality of York (York Region)
<b>Drinking-Water System Category:</b>	Small Municipal Residential
<b>Period being reported:</b>	January 1, 2008 to December 31, 2008

<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 [ X ]</b></p> <p><b>Is your annual report available to the public at no charge on a web site on the Internet? Yes [ X ] 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;"> <p>Regional Municipality of York              Administrative Building              Transportation and Work Department              17250 Yonge Street              Newmarket, Ontario</p> </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p><b>Number of Designated Facilities served:</b>  <input style="width: 100px; height: 20px;" type="text"/></p> <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> <input style="width: 100px; height: 20px;" type="text"/></p> <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>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

**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:**

<b>Drinking Water System Name</b>	<b>Drinking Water System Number</b>
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**

Ansnoerveldt 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 Ansnoerveldt and is responsible for the supply, production, treatment and storage of water.

Water treatment for the Ansnoerveldt 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 Ansnoerveldt.

**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
Jun. 6,	System Pressure	10	Psi	Broken feed pipe	Jun. 6,



2008				in clear well. Had town of King notify residents that they would be out of water for a couple of hours. Flushed and dechlorinated. Town of King also flushed. Put system back on line. Took grab samples while system was down. Let MOE & MOH know that system pressure was back on line.	2008
Jul. 15, 2008	System Pressure	0	Psi	System pressure below 20psi for 5 minutes. Advised town of Vaughan. Reset pressure pumps. System pressure above 20psi after reset.	Jul. 15, 2008
Aug. 12, 2008	System Pressure	60	Psi	Due to malfunction in pre trim chlorination residual analyzer, the high lift pumps locked out, causing system pressure to drop to 0 psi. Upon arrival the chlorine analyzer was reading 1.89	Aug. 12, 2008



				mg/L free residual. Restored operation of high lift pumps, pressure restored. No further action required.	
Sept. 28, 2008	Free Chlorine Residual	4.98	Mg/L	Flushed system, added dechlorinator, cl2 free residual below 4.00 mg/l after 20 minutes.	Sept. 28, 2008
Nov. 16, 2008	System Pressure	20	psi	Local power outage, pressure fell below 20psi, started emergency generator and pressure climbed above 40 psi. Ran generator until normal power restored.	Nov. 16, 2008

**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	106	0	0-1		
Treated	53	0	0	53	1-210
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	0.052 – 3.539
Turbidity (Raw)	26	0.018 – 1.6
Chlorine	8760	0.082 – 3.997

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



Fluoride (If the DWS provides fluoridation)		
---------------------------------------------	--	--

**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		0.045	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	0.004
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		21/01/2008	09/04/2008	14/07/2008	06/10/2008
Antimony as Sb	mg/L	0.006	IMAC	0.0002	0.0006	0.0004	0.0005
Arsenic as As	mg/L	0.025	IMAC	0.0004	0.0007	0.0005	0.0005
Barium as Ba	mg/L	1	MAC		0.121		
Boron as B	mg/L	5	IMAC		0.138		
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	0.27	0.26	0.27	0.24
Lead as Pb	mg/L	0.01	MAC	< 0.0001	0.0005	0.0001	0.0002
Mercury as Hg	mg/L	0.001	MAC		< 0.00002		
Nitrate as N	mg/L	10	MAC	0.06	0.02	0.05	0.06
Nitrite	mg/L	1	MAC	< 0.01	< 0.01	< 0.01	< 0.01
Selenium as Se	mg/L	0.01	MAC	0.0007	0.0017	0.0011	0.0013
Sodium as Na	mg/L	200	AO	39.1	40.6	38.1	41.1
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	21/01/2008	09/04/2008	14/07/2008	06/10/2008
(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		< 0.0004	
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		< 0.0035	
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		< 0.0002	
Carbofuran	mg/L	0.09	MAC		< 0.004	
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		< 0.0001	
Diuron	mg/L	0.15	MAC		< 0.0002	
Glyphosate	mg/L	0.28	IMAC		< 0.002	
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		< 0.0001	
Parathion	mg/L	0.05	MAC		< 0.0002	



Organics Test Results

Reading	Units	ODWS		21/01/2008	09/04/2008	14/07/2008	06/10/2008
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		< 0.002		
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)