Drinking-Water Systems Regulation O. Reg. 170/03

Part III Form 2
Section 11. ANNUAL REPORT.

Drinking-Water System Number:	**210000951**
Drinking-Water System Name:	**Verner WTP**
Drinking-Water System Owner:	**The Corporation of the Municipality of West Nipissing**
Drinking-Water System Category:	**Large Municipal Residential**
Period being reported:	**Jan 1, 2004 to Dec 31, 2004**

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [X]

Is your annual report available to the public at no charge on a web site on the Internet?
Yes [X] No [ ]

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

Municipality of West Nipissing
Sturgeon Falls Water Treatment Plant
11 Nipissing Street
Sturgeon Falls, Ontario

Complete for all other Categories.

Number of Designated Facilities served:

0

Did you provide a copy of your annual report to all Designated Facilities you serve?
Yes [ ] No [ ]

Number of Interested Authorities you report to: **0**

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?
Yes [ ] No [ ]

List Drinking-Water Systems, which receive all of their drinking water from your system:

NA

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
[X] Public access/notice via a newspaper
[ ] Public access/notice via Public Request
[ ] Public access/notice via a Public Library
[X] Public access/notice via other method Listed on Local Cable TV

Describe your Drinking-Water System

The Verner WTP, commissioned in 1975, consists of a full surface water treatment facility, designed capacity of 1059 m^3/d , drawing water from the Veuve River. The treatment plant consist of one (1) Ecodyne Graver Monoplant package plant, consisting of a Mixing Zone; Flocculation Zone; Settling Compartment and flock barriers; Blowdown valve and rapid flow by gravity sand and anthracite filters. Chemical treatment includes the addition of polymer, aluminum sulfate, pre and post soda ash, chlorine for disinfection and chlorine dioxide for iron and manganese removal to control taste and odour. There are four (4) below grade clearwells connected in series having a total area, total capacity and useable capacity of 134 m2, 269 m^3 and 234 m^3 respectively. The high lift pumping station has a firm capacity of 1,090 m^3/d with three (3) identical vertical turbine high lift pumps each having a capacity of 545 m^3/d at a TDH of 53.3 m. An elevated storage tank of composite steel/concrete construction, having a total storage capacity of 568 m^3 and about 40 m above ground equipped with low level alarm and an overflow is located approximately 23 meters. There is no standby power supplied at this plant.

The plant is pending system upgrades to meet the current regulatory requirements

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite
Sodium Chlorite
Sodium Carbonate
Aluminum Sulfate
Poly Acrylamide Polymer

Were any significant expenses incurred to?

[X] Install required equipment
[ ] Repair required equipment
[X] Replace required equipment

Describe

The Verner WTP is under going upgrades to be completed by Dec 31, 2005 to

1. **ensure primary disinfection downstream of the filters in accordance with O. Reg. 170/03 and the Procedure for Disinfection of Drinking Water in Ontario.**
2. **provide standby chemical metering pump for all process chemical additions.**
3. **upgrade instrumentation to link the high lift pumps to raw and treated water monitors.**
4. **provide a vent for the alum tank and spill containment.**
5. **provide Standby power Gen Set**
6. **provide a separate storage area for sodium chlorite**
7. **provide spill containment for all process chemicals**

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
11-Jan-2004	Discharge Pressure	0	PSI	Water main break. Repaired main. Not an adverse condition but did report. Free chlorine residual & turbidity OK.	1/11/2004

Microbiological testing done under section 8-2 during this reporting period

	Number of Samples	Range of E.Coli Results (#-#)	Range of Total Coliform Results (#-#)	Number of Background Colony Counts Samples	Range of Results Background Colony Counts (#-#)
Raw	52	10 - 1210	10 - >2000	52	>10 - >2000
Treated	52	0 - 0	0 - 0	52	0 - 1
Distribution	156	0 – 0	0- 0	156	0 - 0

Operational testing done under Schedule 7, 8, or 9 during the period covered by this Annual Report.

Filter Grabs Summary

	Number of Samples	Range of Results
Filter Turbidity	80	0.13 – 0.54 NTU

POE Grabs

	Number of Samples	Range of Results
Turbidity	315	0.16 – 3.0 NTU
Free Chlorine	255	0.99 – 2.22 mg/L

Distribution Grabs

	Number of Samples	Range of Results
Free Chlorine	366	0.06 – 2.0 mg/L

POE Online Continuous Analyzers

Parameter	*# samples*	Range of Results
Online POE Free Cl_2	8760	0 – 2.0 mg/L

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

Summary of additional testing and sampling carried out in accordance with the requirement of an approval or order. NA

Date of order or C of A	Parameter	Date Sampled	Result	Unit of Measure
NA	NA	NA	NA	NA

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Feb 24 04	<0.0005	mg/L	
Arsenic	Feb 24 04	<0.0007	mg/L	
Barium	Feb 24 04	<0.0003	mg/L	
Boron	Feb 24 04	<0.003	mg/L	
Cadmium	Feb 24 04	<0.0005	mg/L	
Chromium	Feb 24 04	<0.0008	mg/L	
Lead	Feb 24 04	<0.0011	mg/L	
Mercury	Feb 24 04	<0.0001	mg/L	
Selenium	Feb 24 04	<0.0008	mg/L	
Sodium	Feb 24 04	29	mg/L	Yes
Uranium	Feb 24 04	<0.0008	mg/L	
Fluoride	Feb 24 04	<0.1	mg/L	
Nitrite	Feb 24 04 May 10 04 Aug 3 04 Oct 19 04	<0.1 <0.1 <0.1 <0.1	mg/L mg/L mg/L mg/L	
Nitrate	Feb 24 04 May 10 04 Aug 3 04 Oct 19 04	0.3 <0.1 0.2 0.2	mg/L mg/L mg/L mg/L	

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Feb 24 04	<0.5	ug/L	
Aldicarb	Feb 24 04	<5	ug/L	
Aldrin + Dieldrin	Feb 24 04	<0.012	ug/L	
Atrazine + N-dealkylated metobolites	Feb 24 04	<1	ug/L	
Azinphos-methyl	Feb 24 04	<2	ug/L	
Bendiocarb	Feb 24 04	<2	ug/L	
Benzene	Feb 24 04	<0.5	ug/L	
Benzo(a)pyrene	Feb 24 04	<0.01	ug/L	
Bromoxynil	Feb 24 04	<0.5	ug/L	
Carbaryl	Feb 24 04	<5	ug/L	
Carbofuran	Feb 24 04	<5	ug/L	
Carbon Tetrachloride	Feb 24 04	<0.5	ug/L	
Chlordane (Total)	Feb 24 04	<0.012	ug/L	
Chlorpyrifos	Feb 24 04	<1	ug/L	
Cyanazine	Feb 24 04	<1	ug/L	
Diazinon	Feb 24 04	<1	ug/L	
Dicamba	Feb 24 04	<1	ug/L	
1,2-Dichlorobenzene	Feb 24 04	<0.5	ug/L	
1,4-Dichlorobenzene	Feb 24 04	<0.5	ug/L	
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Feb 24 04	<0.024	ug/L	
1,2-Dichloroethane	Feb 24 04	<0.5	ug/L	
1,1-Dichloroethylene (vinylidene chloride)	Feb 24 04	<0.5	ug/L	
Dichloromethane	Feb 24 04	<1	ug/L	
2-4 Dichlorophenol	Feb 24 04	<0.5	ug/L	
2,4-Dichlorophenoxy acetic acid (2,4-D)	Feb 24 04	<1	ug/L	
Diclofop-methyl	Feb 24 04	<0.9	ug/L	
Dimethoate	Feb 24 04	<2.5	ug/L	
Dinoseb	Feb 24 04	<1	ug/L	
Diquat	Feb 24 04	<7	ug/L	
Diuron	Feb 24 04	<10	ug/L	
Glyphosate	Feb 24 04	<10	ug/L	
Heptachlor + Heptachlor Epoxide	Feb 24 04	<0.012	ug/L	
Linadane (Total)	Feb 24 04	<0.006	ug/L	
Malathion	Feb 24 04	<5	ug/L	
Methoxychlor	Feb 24 04	<0.024	ug/L	
Metolachlor	Feb 24 04	<0.5	ug/L	
Metribuzin	Feb 24 04	<5	ug/L	
Monochlorobenzene	Feb 24 04	<0.5	ug/L	

Paraquat	**Feb 24 04**	**<1**	**ug/L**	
Parathion	**Feb 24 04**	**<1**	**ug/L**	
Pentachlorophenol	**Feb 24 04**	**<0.5**	**ug/L**	
Phorate	**Feb 24 04**	**<0.5**	**ug/L**	
Picloram	**Feb 24 04**	**<5**	**ug/L**	
Polychlorinated Biphenyls(PCB)	**Feb 24 04**	**<0.05**	**ug/L**	
Prometryne	**Feb 24 04**	**<0.25**	**ug/L**	
Simazine	**Feb 24 04**	**<1**	**ug/L**	
THM **(**NOTE**:** show latest annual average**)**	**Average** **Feb 24 04** **May 10 04** **Aug 3 04** **Oct 19 04**	**78.5** **33** **70** **140** **71**	**ug/L** **ug/L** **ug/L** **ug/L** **ug/L**	
Temephos	**Feb 24 04**	**<10**	**ug/L**	
Terbufos	**Feb 24 04**	**<0.7**	**ug/L**	
Tetrachloroethylene	**Feb 24 04**	**<0.5**	**ug/L**	
2,3,4,6-Tetrachlorophenol	**Feb 24 04**	**<0.5**	**ug/L**	
Triallate	**Feb 24 04**	**<1**	**ug/L**	
Trichloroethylene	**Feb 24 04**	**<0.5**	**ug/L**	
2,4,6-Trichlorophenol	**Feb 24 04**	**<0.5**	**ug/L**	
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	**Feb 24 04**	**<1**	**ug/L**	
Trifluralin	**Feb 24 04**	**<1**	**ug/L**	
Vinyl Chloride	**Feb 24 04**	**<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. none

Parameter	Result Value	Unit of Measure	Date of Sample
N/A			

(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)