

Drinking-Water Systems Regulation O. Reg 170/03

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, 2003 to Dec 31, 2003

Is this a Large Municipal Drinking-Water System serving more than 10,000 people? No

If yes, is your annual report available to the public at no charge on a web site on the Internet? NA

Location of Summary Report required under O.Reg.170/03 section 22.

For Large Municipal Residential or Small Municipal Residential only

West Nipissing Public Utilities Office, 30 Front Street, Unit D, Sturgeon Falls, Ontario

Number of Designated Facilities served: NA

Any of the following category may be serving a designated facility: large municipal non residential, small municipal non residential, large non municipal non residential, small non municipal non residential, non municipal year round residential, non municipal seasonal residential

Did you provide a copy of your annual report to all Designated Facilities you serve? NA

Number of Interested Authorities reporting to: NA

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? NA

Number of Drinking-Water Systems your system is connected to and provides all of its drinking water to: NA

Did you provide a copy of your annual report to all system owners that are connected to you and to whom you provide all of its drinking water? NA

Indicate how you notified your system users that your annual report is available free of charge

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The Verner WTP, commissioned in 1975, consists of a full surface water treatment facility, designed capacity of 1059 m3/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 m3 and 234 m3 respectively. The high lift pumping station has a firm capacity of 1,090 m3/d with three (3) identical vertical turbine high lift pumps each having a capacity of 545 m3/d at a TDH of 53.3 m. An elevated storage tank of composite steel/concrete construction, having a total storage capacity of 568 m3 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 the reporting period.

Sodium Hypochlorite Sodium Chlorite Sodium Carbonate Aluminum Sulphate Poly Acrylamide Polymer

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Where any significant expenses incurred during this reporting period to?

Install required equipment : No Repair required equipment No Replace required equipment No

Describe (if yes to any of above)

The Verner WTP is pending upgrades to be completed by Dec 31, 2004 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
- 6. provide a separate storage area for sodium chlorite
- 7. provide spill containment for all process chemicals

List any notice(s) in accordance with subsection 18(1) of the Act or section 16-4 of Schedule 16 of O.Reg.170/03 were reported to Spills Action Centre?

Incident Date	Parameter	Result	Corrective Action	Corrective
				Action Date
07-Apr-2003	Low chlorine	0.0 mg/l	Resampling & Flushing Main	07-Apr-2003
14-Apr-2003	Low chlorine	0.0 mg/l	Resampling & Flushing Main	14-Apr-2003
16-May-2003	THM	110.0 ug/l	Other	16-May-2003
18-Jun-2003	Sodium	29.07 mg/l	Resample	26-Jun-2003
24-Jun-2003	Sodium	29.8 mg/l	Resample	30-Jun-2003
12-Aug-2003	THM Quarter	184 ug/l	Study underway	20-Aug-2003
Oct -14-2003	Low Chlorine	0.0 mg/L	Flushed and Bactis	Oct-14-2002

Microbiological testing done during the period covered in the report

(Note: Large Municipal Residential may express the general bacteria population as background colony counts on the total coliform membrane filter or as colony counts on a heterotrophic plate count)

	Number	Range of	Range of	Number	Range of GBP
	of	E.Coli or	Total	of GBP	Results
	Samples	Fecal	Coliform	Samples	
		Results	Results	_	
Raw	52	50->2000	2-850	52	200->2000
Treated	52	0-0	0-0	52	0-0
Distribution	153	0-0	0-0	153	0-0

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Operational testing done under schedule 7, 8 or 9 during the period covered by this report. (Please indicate range of results if using continuous monitoring devices)

POE Grab	Number of Samples	Range of Results
Turbidity ntu	252	0.11-0.98
Chlorine	253	0.53-2.6
Free mg/L		

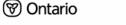
Distribution	Number of Samples	Range of Results
Grab		
Chlorine	337	0-2.05
Free mg/L		

POE Online Continuous Analyzers

Parameter	Sample point	# samples	Min	Max	Average
Online POE Free Cl ₂	Treated POE	20428	0	1.49	1.3
mg/l					

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

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Date of order or C of A	Sample Type	Parameter	Number of Samples	Sample Date	Result		
NA	NA	NA	NA	NA	NA		

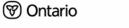


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Summary of inorganic parameters tested during the period covered in the report or most recent results. (Expressed in mg/L)

Parameter	Sample Date	Result	Exceedence
A4:	4 20 2002	Value	
Antimony	Apr. 29, 2003	ND	
Arsenic	Jan. 28, 2003	ND	
Barium	Jan. 28, 2003	0.016	
Boron	Jan. 28, 2003	ND	
Cadmium	Jan. 28, 2003	ND	
Chromium	Jan. 28, 2003	ND	
Lead	Jan. 28, 2003	ND	
(Distribution)	Apr. 29, 2003	ND	
	Aug. 12, 2003	ND	
	Nov. 10, 2003	ND	
Mercury	Jan. 28, 2003	ND	
Selenium	Jan. 28, 2003	ND	
Uranium	Jan. 28, 2003	ND	
Fluoride	Jan. 28, 2003	ND	
Sodium	June 18,2003	29.07	reported
	June 23, 2003	29.8	_
Nitrate	Jan. 28, 2003	0.3	
	Apr. 29, 2003	0.2	
	Aug. 12, 2003	0.1	
	Nov. 10, 2003	0.2	
Nitrite	Jan. 28, 2003	ND	
	Apr. 29, 2003	ND	
	Aug. 12, 2003	ND	
	Nov. 10, 2003	ND	



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Summary of organic parameters sampled during this reporting period or most recent results. (Expressed in milligrams/L)

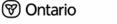
Parameter	Sample	Result	Exceed.	Parameter	Sample	Result	Exceed.
- W. WIIICOCI	Date	Value	DACCU.	2 ur umetel	Date	Value	LACCU.
Alachlor	Jan. 28,	ND		Glyphosate	Jan. 28,	ND	
	2003				2003		
	Apr. 29,	ND			Apr. 29,	ND	
	2003				2003		
Aldicarb	Jan. 28,	ND		Heptachlor +	Jan. 28,	ND	
	2003			Heptachlor Epoxide	2003		
	Apr. 29,	ND			Apr. 29,	ND	
Aldrin + Dieldrin	2003	NID		Linadane (Total)	2003	ND	
Aların + Dieların	Jan. 28, 2003	ND		Linadane (Total)	Jan. 28, 2003	ND	
	Apr. 29,	ND			Apr. 29,	ND	
	2003	ND			2003	ND	
Atrazine + N-	Jan. 28,	ND		Malathion	Jan. 28,	ND	
dealkylated	2003	1,2		1/24424024	2003	1,2	
metobolites	Apr. 29,	ND			Apr. 29,	ND	
	2003				2003		
	Aug. 12,	ND					
	2003						
Azinphos-methyl	Jan. 28,	ND		Methoxychlor	Jan. 28,	ND	
	2003				2003		
	Apr. 29,	ND			Apr. 29,	ND	
B 11 1	2003	1770		25 . 1 . 1	2003	NID	
Bendiocarb	Jan. 28,	ND		Metolachlor	Jan. 28,	ND	
	2003 Apr. 29,	ND			2003 Apr. 29,	ND	
	2003	ND			2003	ND	
Benzene	Jan. 28,	ND		Metribuzin	Jan. 28,	ND	
Denzene	2003	112		Wictibaziii	2003	112	
	Apr. 29,	ND			Apr. 29,	ND	
	2003				2003		
Benzo(a)pyrene	Aug. 12,	ND		Monochlorobenzene	Jan. 28,	ND	
	2003				2003		
					Apr. 29,	ND	
				_	2003		
Bromoxynil	Jan. 28,	ND		Paraquat	Jan. 28,	ND	
	2003	NID			2003	NID	
	Apr. 29, 2003	ND			Apr. 29, 2003	ND	
Carbaryl	Jan. 28,	ND		Parathion	Jan. 28,	ND	
Cai Dai yi	2003	MD		1 at aunun	2003	1410	
	Apr. 29,	ND			Apr. 29,	ND	
	2003	1.2			2003		
Carbofuran	Jan. 28,	ND		Pentachlorophenol	Jan. 28,	ND	
	2003				2003		
	Apr. 29,	ND			Apr. 29,	ND	
	2003				2003		
Carbon Tetrachloride	Jan. 28,	ND		Phorate	Jan. 28,	ND	
	2003				2003		
	Apr. 29,	ND			Apr. 29,	ND	
~··	2003			7.1	2003		
Chlordane (Total)	Jan. 28,	ND		Picloram	Jan. 28,	ND	
	2003	NIES			2003	NID	
	Apr. 29,	ND			Apr. 29,	ND	
	2003				2003	1]



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Chlorpyrifos	Jan. 28,	ND	Polychlorinated	Jan. 28,	ND	
	2003		Biphenyls(PCB)	2003		
	Apr. 29,	ND		Apr. 29,	ND	
C	2003	NID	- December 1	2003	NID	
Cyanazine	Jan. 28,	ND	Prometryn	Jan. 28,	ND	
	2003	ND		2003	ND	
	Apr. 29, 2003	ND		Apr. 29, 2003	ND	
Diazinon	Jan. 28,	ND	Simazine	Jan. 28,	ND	
Diazilion	2003	ND	Simazine	2003	ND	
	Apr. 29,	ND		Apr. 29,	ND	
	2003	1112		2003	112	
Dicamba	Jan. 28,	ND	Temephos	Jan. 28,	ND	
	2003	-,-	-33234	2003	_ ,_	
	Apr. 29,	ND		Apr. 29,	ND	
	2003			2003		
1,2-Dichlorobenzene	Jan. 28,	ND	Terbufos	Jan. 28,	ND	
	2003			2003		
	Apr. 29,	ND		Apr. 29,	ND	
	2003			2003		
1,4-Dichlorobenzene	Jan. 28,	ND	Tetrachloroethylene	Jan. 28,	ND	
	2003		(perchloroethylene)	2003		
	Apr. 29,	ND		Apr. 29,	ND	
	2003			2003		
Dichlorodiphenyltrichl	Jan. 28,	ND	2,3,4,6-	Jan. 28,	ND	
oroethane (DDT) +	2003	NID	Tetrachlorophenol	2003	NID	
metabolites	Apr. 29,	ND		Apr. 29,	ND	
1.2 Diablementhans	2003	ND	Triallate	2003	ND	
1,2-Dichloroethane	Jan. 28, 2003	ND	Trianate	Jan. 28, 2003	ND	
	Apr. 29,	ND		Apr. 29,	ND	
	2003	ND		2003	ND	
1,1-Dichloroethylene	Jan. 28,	ND	Trichloroethylene	Jan. 28,	ND	
(vinylidene chloride)	2003	1,12	Tremor occurrence	2003	112	
(,,	Apr. 29,	ND		Apr. 29,	ND	
	2003			2003		
Dichloromethane	Jan. 28,	ND	2,4,6-Trichlorophenol	Jan. 28,	ND	
	2003			2003		
	Apr. 29,	ND		Apr. 29,	ND	
	2003			2003		
2-4 Dichlorophenol	Jan. 28,	ND	2,4,5-Trichlorophenoxy	Jan. 28,	ND	
	2003		acetic acid(2,4,5-T)	2003		
	Apr. 29,	ND		Apr. 29,	ND	
0.4 D' 11 1	2003	NIII	T :0 ::	2003	3775	
2,4-Dichlorophenoxy	Jan. 28,	ND	Trifluralin	Jan. 28,	ND	
acetic acid (2,4-D)	2003	NID		2003	NID	
	Apr. 29, 2003	ND		Apr. 29, 2003	ND	
Diclofop-methyl	Jan. 28,	ND	Vinyl Chloride		NID	
Dictorop-methyr	2003	ND	v myr Cmoride	Jan. 28, 2003	ND	
	Apr. 29,	ND		Apr. 29,	ND	
	2003	1120		2003	1,12	
Dimethoate	Jan. 28,	ND	THM	Jan. 28,	0.062	
	2003		(Distribution)	2003	21302	
	Apr. 29,	ND		Apr. 29,	0.078	
	2003			2003		
				Aug. 12,	0.184	
	1			2003	l	
		I				
				Nov. 10, 2003	0.050	



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Dinoseb	Jan. 28, 2003	ND			
	Apr. 29, 2003	ND			
Diquat	Jan. 28, 2003	ND			
	Apr. 29, 2003	ND			
Diuron	Jan. 28, 2003	ND			
	Apr. 29, 2003	ND			

List any inorganic or organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards. NA

Parameter	Result Value	Sample Date	MAC or IMAC
NA	NA	NA	NA

Applies to the following category: large municipal residential, small municipal residential, large municipal non residential, small municipal non residential, large non municipal non residential

Note: if the sampling and testing frequency has been increased for any parameter in this reporting period, please insert additional rows to the tables to accommodate all the test results.

#

Q1			Q2			Q3			Q4		
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Year To Date

Cubic Meters

Month Tot.

Avg. Day

Min Day

Max Day

Rated Capacity

% Rated Capacity

	13021	12034	13403	12530	13227	17656	18836	19226	16611	16997	14448	13749
	420	430	432	418	427	589	608	620	554	548	482	444
	347	374	355	344	369	474	516	392	440	431	442	381
ĺ	531	486	470	458	479	897	730	786	627	718	557	499
ĺ	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059	1059
	50	46	44	43	45	85	69	74	59	68	53	47

