

OLIPHANT WATER TREATMENT PLANT

Small Municipal Residential Drinking Water System

SCHEDULE 22 SUMMARY REPORT

For the period of JANUARY 1, 2014 TO DECEMBER 31, 2014

Prepared by the Ontario Clean Water Agency For The Corporation of the Town of South Bruce Peninsula

SUMMARY

This report is a summary of water quality and quantity information submitted in accordance with Schedule 22 of Ontario's Drinking Water System Regulation for the reporting period of January 1, 2014 to December 31, 2014 for the Oliphant Water Treatment Plant located in the Town of South Bruce Peninsula.

The summary includes:

- 1. Any requirements of the Act and Regulation, Orders or System Approval (s) that the system failed to meet during the reporting period and the measures taken to correct each failure.
- 2. A summary of the quantities and flow rates of water supplied during the reporting period, including monthly averages and maximum daily flows.
- 3. A comparison of the average and monthly maximum daily flows to the approved capacity specified in the System Approval.

ISSUES OF NON-COMPLIANCE

The following table lists the requirements of the Act, Regulations, System Approval(s) and any Order that the system failed to meet during the reporting period and the measures taken to correct each failure:

There was one MOE Compliance Inspection conducted during the reporting period on October 8, 2014 which was routine announced. The inspection resulted in an Inspection Report Rating of 100%.

No actions required

ASSESSMENT OF FLOW RATES AND QUANTITIES OF WATER SUPPLIED

The following table lists the quantities and flow rates of the water supplied during the reporting period covered by this report, including monthly average and maximum daily flows and a comparison to the rated capacity and flow rates specified in the system approval:

Oliphant Water Treatment Plant

Month	Average Day Flow	% of Rated Capacity 327 m3/d	Maximum Day Flow	% of Rated Capacity 327 m3/d
January				
February			:	
March				
April				
May				
June				
July				
August				
September				
October				
November				
December ***	56.25	17.20	56.25	17.20

Note: The Oliphant Water Treatment Plant stopped treating water on January 16, 2011 and began receiving transported water from the Wiarton Water Treatment Plant by direction of the Town of South Bruce Peninsula.

*** In December, following upgrades to the plant, tests were run to determine the practicality of treating water at the Oliphant Water Treatment Plant.

Town of South Bruce Peninsula

220007695

Oliphant

Drinking-Water System Number:

Drinking-Water System Name:

Drinking-Water System Owner:

Drinking-Water System Category:	Small M	unicipal Residential
Period being reported:	January	1, 2014 to December 31, 2014
		*
Complete if your Category is Large Muni	cipal	Complete for all other Categories.
Residential or Small Municipal Residenti		
Does your Drinking-Water System serve	e more	Number of Designated Facilities served:
than 10,000 people? Yes [] No [X]		
Is your annual report available to the pu		Did you provide a copy of your annual report
no charge on a web site on the Internet?	•	to all Designated Facilities you serve?
Yes [X] No []		Yes [] No []
Location where Summary Report requi	rad	Number of Interested Authorities you report
under O. Reg. 170/03 Schedule 22 will b		to:
available for inspection.		
Town of South Bruce Peninsula		Did you provide a copy of your annual report
315 George Street		to all Interested Authorities you report to for
Wiarton, Ontario		each Designated Facility?
NOH 2TO		Yes [] No []
519-534-1400		
	*	
<u></u>	h receive a	all of their drinking water from your system:
N/A		*
	_	`
	_	to all Drinking-Water System owners that are
connected to you and to whom you	provide al	l of its drinking water?
Yes [] No [] N/A [X]		
Indicate how you notified system us	ore that w	our annual report is available, and is free of
charge.	cis mai y	our annual report is available, and is free or
ciini go.		
[X] Public access/notice via the web		
[X] Public access/notice via Govern		ce
Public access/notice via a newspa		
[] Public access/notice via Public R		
[] Public access/notice via a Public		
[] Public access/notice via other mo	ethod	

Describe your Drinking-Water System

- The Oliphant Drinking Water System currently transports all of its drinking water from the Wiarton Drinking Water System.
- 2 Clearwells
- 2 Highlift pumps
- Secondary Disinfection by Sodium Hypochlorite 12% solution.
- PLC/SCADA system
- Standby power diesel generator

Note: As of January 20th 2011 the Oliphant Water Treatment Plant began receiving all of its treated water from the Wiarton Water Treatment Plant.

List all water treatment chemicals used over this reporting period

- Sodium Hypochlorite

Were any significant expenses incurred to?

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

Describe:

- Replacement of UPS
- Upgrade of water plant to resume operations (SCADA upgrades; refurbish old pumps; installation of mixer; drill new well)

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	Parameter	Result	Unit of	Corrective Action	Corrective
Date			Measure		Action Date
-					

Microbiological testing done under Schedule 10, 11 or 12 of Regulation 170/03 during this reporting Period

		Range of	Range of	Number	Range of
	Number	E. Coli or	Total Coliform	of	НРС
	of	Fecal Results	Results	HPC	Results
Location	Samples	(min #) - (max #)	(min #) - (max #)	Samples	(min #) - (max #)
Distribution - DW	51	0 - 0	0 - 0	51	0 - 10

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

Report.

керогі.	Number of Grab Samples	Range of Results (#-#)	NOTE: For continuous monitors use 8760 as the number of samples.
Filter Turbidity NTU	8760	0.02 - 0.16	
Chlorine	8760	1.12 – 1.55	
Chlorine Residual Distribution System	8760	0.95 – 2.00	

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	Parameter	Date	Result	Unit of Measure
A		Sampled		
MDWL #094-105	Suspended Solids	Annual	N/A	mg/L
04/30/2010		average		

^{**} Currently not required as all of the systems drinking water is transported from Wiarton.

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

Parameter	Sample	Result	Unit of	Exceedanc
	Date	Value	Measure	e
Antimony	01/10/11	< 0.02	ug/L	No
Arsenic	01/10/11	0.3	ug/L	No
Barium	01/10/11	595	ug/L	No
Boron	01/10/11	33	ug/L	No
Cadmium	01/10/11	< 0.03	ug/L	No
Chromium	01/10/11	< 0.5	ug/L	No
Mercury	01/10/11	< 0.02	ug/L	No
Selenium	01/10/11	< 1.0	ug/L	No
Uranium	01/10/11	0.008	ug/L	No
Nitrite - TW	01/07/13	< 0.005	mg/L	No
Nitrite - TW	04/02/12	< 0.005	mg/L	No
Nitrite - TW	07/09/12	< 0.005	mg/L	No
Nitrite - TW	10/16/12	< 0.005	mg/L	No
Nitrate - TW	01/07/13	0.258	mg/L	No
Nitrate - TW	04/02/12	0.281	mg/L	No
Nitrate - TW	07/09/12	0.250	mg/L	No
Nitrate - TW	10/16/12	0.233	mg/L	No
Sodium	01/10/11	0.13	mg/L	No
Fluoride	01/10/11	0.24	mg/L	No

Parameter	Sample	Result	Unit of	Exceedance
	Date	Value	Measure	e
Alachlor	01/10/11	< 0.02	ug/L	No
Aldicarb	01/10/11	< 0.01	ug/L	No
Aldrin + Dieldrin	01/10/11	< 0.01	ug/L	No
Atrazine + N-dealkylated metobolites	01/10/11	< 0.01	ug/L	No
Azinphos-methyl	01/10/11	< 0.02	ug/L	No
Bendiocarb	01/10/11	< 0.01	ug/L	No
Benzene	01/10/11	< 0.32	ug/L	No
Benzo(a)pyrene	01/10/11	< 0.004	ug/L	No
Bromoxynil	01/10/11	< 0.33	ug/L	No
Carbaryl	01/10/11	< 0.01	ug/L	No
Carbofuran	01/10/11	< 0.01	ug/L	No
Carbon Tetrachloride	01/10/11	< 0.16	ug/L	No
Chlordane (Total)	01/10/11	< 0.01	ug/L	No
Chlorpyrifos	01/10/11	< 0.02	ug/L	No
Cyanazine	01/10/11	< 0.03	ug/L	No
Diazinon	01/10/11	< 0.02	ug/L	No
Dicamba	01/10/11	< 0.20	ug/L	No
1,2-Dichlorobenzene	01/10/11	< 0.41	ug/L	No
1,4-Dichlorobenzene	01/10/11	< 0.36	ug/L	No
Dichlorodiphenyltrichloroethane	01/10/11	< 0.01	ug/L	No
(DDT) + metabolites				
1,2-Dichloroethane	01/10/11	< 0.35	ug/L	No
1,1-Dichloroethylene	01/10/11	< 0.33	ug/L	No
(vinylidene chloride)				
Dichloromethane	01/10/11	< 0.35	ug/L	No
2-4 Dichlorophenol	01/10/11	< 0.15	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	01/10/11	< 0.19	ug/L	No
Diclofop-methyl	01/10/11	< 0.40	ug/L	No
Dimethoate	01/10/11	< 0.12	ug/L	No
Dinoseb	01/10/11	< 0.03	ug/L	No
Diquat	01/10/11	< 1.0	ug/L	No
Diuron	01/10/11	< 0.03	ug/L	No
Glyphosate	01/10/11	< 6	ug/L	No
Heptachlor + Heptachlor Epoxide	01/10/11	< 0.01	ug/L	No
Lindane (Total)	01/10/11	< 0.01	ug/L	No
Malathion	01/10/11	< 0.02	ug/L	No
Methoxychlor	01/10/11	< 0.01	ug/L	No
Metolachlor	01/10/11	< 0.01	ug/L	No
Metribuzin	01/10/11	< 0.02	ug/L	No
Monochlorobenzene	01/10/11	< 0.30	ug/L	No
Paraquat	01/10/11	< 1	ug/L	No
Parathion	01/10/11	< 0.02	ug/L	No
Pentachlorophenol	01/10/11	< 0.15	ug/L	No
Phorate	01/10/11	< 0.01	ug/L	No

Picloram	01/10/11	< 0.25	ug/L	No
Polychlorinated Biphenyls(PCB)	01/10/11	< 0.04	ug/L	No
Prometryne	01/10/11	< 0.03	ug/L	No
Simazine	01/10/11	< 0.01	ug/L	No
***THM	2014	48.75	ug/L	No
Temephos	01/10/11	< 0.01	ug/L	No
Terbufos	01/10/11	< 0.01	ug/L	No
Tetrachloroethylene	01/10/11	< 0.35	ug/L	No
2,3,4,6-Tetrachlorophenol	01/10/11	< 0.14	ug/L	No
Triallate	01/10/11	< 0.01	ug/L	No
Trichloroethylene	01/10/11	< 0.43	ug/L	No
2,4,6-Trichlorophenol	01/10/11	1.3	ug/L	No
2,4,5-Trichlorophenoxy acetic acid	01/10/11	< 0.22	ug/L	No
(2,4,5-T)				
Trifluralin	01/10/11	< 0.02	ug/L	No
Vinyl Chloride	01/10/11	< 0.17	ug/L	No

^{***} Annual average. THM annual running average

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
THM	64	ug/L	10/20/14
Barium	595	mg/L	01/10/11

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 (ug/L) (min#) — (max #)	Number of Exceedances
Distribution	0	N/A	N/A

***The Oliphant Drinking Water System has qualified for the plumbing exemption in Accordance with O. Reg. 170/03 schedule 15.1-5 (9) and (10). The next distribution lead sampling is scheduled for the winter sampling period of 2015.

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