



ANNUAL REPORT

Drinking-Water System Number:	210001362
Drinking-Water System Name:	Southwold Distribution System
Drinking-Water System Owner:	The Corporation of the Township of Southwold
Drinking-Water System Category:	Large Municipal Residential Distribution
Period being reported:	January 1, 2014 to December 31, 2014

**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.

Township of Southwold  
35663 Fingal Line, General Delivery  
Fingal, ON  
N0L 1K0

**Complete for all other Categories.**

Number of Designated Facilities served:

2

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

Yes [ ] No [ X ]

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 [ X ]

**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 a portion of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Municipality of Dutton/Dunwich	220002967
City of St. Thomas Water Distribution System	260002187

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 or part of its drinking water?

Yes [ X ] 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
- ☒ [ X ] 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**

The Southwold Water System consists of a water distribution system with a re-chlorination facility.

The system has high and low pressure areas with two Pressure Reducing Valves & chambers.

The re-chlorination facility houses –

Two chemical pumps – one duty one standby

Two chlorine analyzers – one inlet, one outlet

A flow meter that paces the chlorine addition

Scada System with Alarms.

The Southwold system supplies a percentage of the supply to the Dutton/Dunwich system through the Iona interconnect. Water is also supplied to a subdivision of the city of St. Thomas through a meter on Fingal Line.

**List all water treatment chemicals used over this reporting period**

Sodium Hypochlorite

**Were any significant expenses incurred to?**

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

Please provide a brief description and a breakdown of monetary expenses incurred

- Installed two auto flushers. One at the intersection of Lake Line and Grand Canyon Rd and the second at the intersection of Bush Line and Reiger Rd to assist in maintaining a free chlorine residual of .20 ppm or higher in the distribution system.
- Replace 14" flow meter with a new ABB flow meter and remote transmitter in 14" trunk main at Shedden booster station located at 36513 Talbot Line.
- Continuous progress on Municipal backflow prevention program.





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

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

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	N/A				
Treated	N/A				
Distribution	263	0 - 0	0 - 0	104	>2000 - 90

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 #)	Unit of Measure
Turbidity	N/A		
Free Chlorine	1365	.40 – 1.56	mg/L
Continuous Free Chlorine Monitoring	8760	.00 – 4.99	mg/L

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

Note:

There were a few instances in 2014 when the water distribution free chlorine residual was recorded below 0.05 mg/L by the continuous online analyzers. Each of these events coincided with operational alarm testing, loss of power or equipment failure etc. and do not reflect the actual free chlorine residual maintained in the distribution system.

**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
N/A				





## 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 #)	Unit of Measure	Number of Exceedances
Plumbing	N/A	N/A	ug/L	N/A
Distribution	6	0.05 – 1.56	ug/L	0
pH	6	7.39 – 7.70		
Alkalinity	6	99 - 131	mg/L	

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	Feb 14	24,27	ug/l	0
	May 14	35,42		
	Aug 13	57,52		
annual average - 41 ug/L	Nov 14	55,37		