

**Part III Form 2  
Section 11. ANNUAL REPORT.**

<b>Drinking-Water System Number:</b>	220004965
<b>Drinking-Water System Name:</b>	Shelburne Water Supply System
<b>Drinking-Water System Owner:</b>	Town of Shelburne
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	January 1 – December 31, 2003

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [X]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [ ] No [X]</p> <p>Location where Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;">                 Town of Shelburne                  203 Main St East                  Shelburne                  Ontario, L0N 1S0             </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served:  <input style="width: 100px; height: 20px;" type="text"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]</p> <p>Number of Interested Authorities you report to: <input style="width: 100px; height: 20px;" type="text"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ]</p>
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List Drinking-Water Systems, which receive all of their drinking water from your system:

None

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 [ ] Not Applicable [X]

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**

The Town of Shelburne's water is derived from five drilled groundwater wells, noted as well numbers 1, 2, 3, 5 and 6. Water from these wells is pumped into the distribution system of watermains and into the Town's elevated storage reservoir.

Shelburne's groundwater wells, draws its water from underground aquifers, which are generally protected from above-ground sources of contamination by overlying layers of clay. To prevent the direct entry of surface water or foreign materials into these wells all wellheads are maintained and secure.

Before entering the distribution system from these wells the raw water is treated by adding a disinfectant to protect against microbial contaminants. The water is disinfected with sodium hypochlorite solution (chlorine) at three locations prior to entering the distribution watermains. Residual chlorine levels are maintained in the watermain distribution system to effectively provide disinfection throughout the system.

Shelburne's ground water supply contains high iron levels and is an aesthetic concern due to its potential for staining of fixtures and clothing. To control the release of iron into the water Shelburne's raw water goes through another step in treatment called iron sequestering (Calciquest).

The Ontario Clean Water Agency's licensed operators regularly test the water within its overall system including the raw water at the well sources, after treatment and within the distribution system of watermains. The results of this testing are shown in following sections to this report.

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

Sodium Hypochlorite (12% solution) - disinfection  
 Calciquest (28% solution) – iron sequestering

**Were any significant expenses incurred to?**

- Install required equipment
- Repair required equipment
- Replace required equipment

**Describe**

Well pump #2 pulled to replace riser pipe. Well pump #2 put back in service when new riser pipe had been fitted to system.

**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
Jan 20/03	Background	>200	CFU per 100 ml	Re-sampled	Jan 22/03
May 13/03	Sodium	38	mg/l	Re-sampled	May 27/03
May 26/03	HPC	>5700	HPC per 1 ml	Re-sampled	May 29/03
Nov 10/03	HPC	>5700	HPC per 1 ml	Re-sampled	Nov 13/03

**Microbiological testing done under schedule 10 during this reporting period**

	Number of Samples	Range of E.Coli or Fecal Results (#-#)	Range of Total Coliform Results (#-#)	Number of HPC & Background Samples	Range of HPC Results (#-#)
<b>Raw</b>	212	0-1	0-20	212	0->5700
<b>Treated</b>	190	0	0	190	0-37
<b>Distribution</b>	238	0	0	238	0->5700

**Operational testing done under Schedule 7 during the period covered by this Annual Report.**

	Number of Grab Samples	Range of Results (#-#)
<b>Turbidity Treated Water</b> Well #2 Well #3 Well #6	8760	0.27-1.36 mg/l 0.25-1.61 mg/l 0.52-1.24 mg/l
<b>Turbidity Raw Water</b>	46	0.17-0.75 NTU
<b>Chlorine Treated Water</b> Well #2 Well #3 Well #6	8760	0.09-0.69 NTU 0.16-0.74 NTU 0.22-0.63 NTU
<b>Chlorine Distribution</b>	558	0.13-1.11 mg/l
<b>Fluoride (If the DWS provides fluoridation)</b>	N/A	N/A

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

*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 A	Parameter	Date Sampled	Result	Unit of Measure

**Summary of Inorganic parameters tested during this reporting period or most recent Well #2**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Sep 04/03	0.6<MDL	ug/l	No
Arsenic	Sep 04/03	9	ug/l	No
Barium	Sep 04/03	120	ug/l	No
Boron	Sep 04/03	38	ug/l	No
Cadmium	Sep 04/03	0.1<MDL	ug/l	No
Chromium	Sep 04/03	3<MDL	ug/l	No
Lead Distribution	Feb 17/03	ND	ug/l	No
Mercury	Sep 04/03	0.1<MDL	ug/l	No
Selenium	Sep 04/03	3<MDL	ug/l	No
Uranium	Sep 04/03	1.29	ug/l	No
Fluoride	Sep 04/03	0.99	mg/l	No
Nitrite	Feb 17/03	ND	mg/l	No
	May 12/03	ND		
	Sep 04/03	0.011<MDL		
	Dec 18/03	0.011<MDL		
Nitrate	Feb 17/03	0.2	mg/l	No
	May 12/03	0.3		
	Sep 04/03	0.221		
	Dec 18/03	0.226		

**Summary of Organic parameters sampled during this reporting period or most recent Well #2**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Sep 04/03	0.11 <MDL	ug/l	No
Aldicarb	Sep 04/03	0.30 <MDL	ug/l	No
Aldrin + Dieldrin	Sep 04/03	0.067 <MDL	ug/l	No
Atrazine + N-dealkylated metabolites	Sep 04/03	0.12 <MDL	ug/l	No
Azinphos-methyl	Sep 04/03	0.21 <MDL	ug/l	No
Bendiocarb	Sep 04/03	0.13 <MDL	ug/l	No
Benzene	Sep 04/03	0.36 <MDL	ug/l	No

Benzo(a)pyrene	Sep 04/03	0.004 <MDL	ug/l	No
Bromoxynil	Sep 04/03	0.094 <MDL	ug/l	No
Carbaryl	Sep 04/03	0.16 <MDL	ug/l	No
Carbofuran	Sep 04/03	0.37 <MDL	ug/l	No
Carbon Tetrachloride	Sep 04/03	0.34 <MDL	ug/l	No
Chlordane (Total)	Sep 04/03	0.11 <MDL	ug/l	No
Chlorpyrifos	Sep 04/03	0.18 <MDL	ug/l	No
Cyanazine	Sep 04/03	0.18 <MDL	ug/l	No
Diazinon	Sep 04/03	2 <MDL	ug/l	No
Dicamba	Sep 30/03	10 <MDL	ug/l	No
1,2-Dichlorobenzene	Sep 04/03	0.56 <MDL	ug/l	No
1,4-Dichlorobenzene	Sep 04/03	0.25 <MDL	ug/l	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Sep 04/03	0.14 <MDL	ug/l	No
1,2-Dichloroethane	Sep 04/03	0.32 <MDL	ug/l	No
1,1-Dichloroethylene (vinylidene chloride)	Sep 04/03	0.52 <MDL	ug/l	No
Dichloromethane	Sep 04/03	1.17 <MDL	ug/l	No
2-4 Dichlorophenol	Sep 04/03	0.15 <MDL	ug/l	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Sep 04/03	0.11 <MDL	ug/l	No
Diclofop-methyl	Sep 04/03	0.13 <MDL	ug/l	No
Dimethoate	Sep 04/03	0.12 <MDL	ug/l	No
Dinoseb	Sep 04/03	0.084 <MDL	ug/l	No
Diquat	Sep 04/03	1 <MDL	ug/l	No
Diuron	Sep 04/03	0.087 <MDL	ug/l	No
Glyphosate	Sep 04/03	6 <MDL	ug/l	No
Heptachlor + Heptachlor Epoxide	Sep 04/03	0.11 <MDL	ug/l	No
Linadane (Total)	Sep 04/03	0.056 <MDL	ug/l	No
Malathion	Sep 04/03	0.091 <MDL	ug/l	No
Methoxychlor	Sep 04/03	0.14 <MDL	ug/l	No
Metolachlor	Sep 30/03	5 <MDL	ug/l	No
Metribuzin	Sep 04/03	0.12 <MDL	ug/l	No
Monochlorobenzene	Sep 04/03	0.46 <MDL	ug/l	No
Paraquat	Sep 04/03	1 <MDL	ug/l	No
Parathion	Sep 04/03	0.18 <MDL	ug/l	No
Pentachlorophenol	Sep 04/03	0.15 <MDL	ug/l	No
Phorate	Sep 30/03	0.5 <MDL	ug/l	No
Picloram	Sep 04/03	0.20 <MDL	ug/l	No
Polychlorinated Biphenyls(PCB)	Sep 04/03	0.04 <MDL	ug/l	No
Prometryne	Sep 04/03	0.23 <MDL	ug/l	No
Simazine	Sep 04/03	0.15 <MDL	ug/l	No

<b>THM Distribution</b> (NOTE: show latest quarterly average) average – 10.775 ug/l	Feb 17/03 May 12/03 Sep 04/03 Dec 18/03	11.0 5.1 17.0 10.0	ug/l	No
<b>Temephos</b>	Sep 04/03	0.31 <MDL	ug/l	No
<b>Terbufos</b>	Sep 30/03	0.7 <MDL	ug/l	No
<b>Tetrachloroethylene</b>	Sep 04/03	0.48 <MDL	ug/l	No
<b>2,3,4,6-Tetrachlorophenol</b>	Sep 04/03	0.14 <MDL	ug/l	No
<b>Triallate</b>	May 12/03	ND	ug/l	No
<b>Trichloroethylene</b>	Sep 04/03	0.54 <MDL	ug/l	No
<b>2,4,6-Trichlorophenol</b>	Sep 04/03	0.25 <MDL	ug/l	No
<b>2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)</b>	Sep 04/03	0.14 <MDL	ug/l	No
<b>Trifluralin</b>	May 12/03	ND	ug/l	No
<b>Vinyl Chloride</b>	Sep 04/03	0.08 <MDL	ug/l	No

**Summary of Inorganic parameters tested during this reporting period or most recent Well #3**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
<b>Antimony</b>	Sep 04/03	0.6 <MDL	ug/l	No
<b>Arsenic</b>	Sep 04/03	15	ug/l	No
<b>Barium</b>	Sep 04/03	120	ug/l	No
<b>Boron</b>	Sep 04/03	18	ug/l	No
<b>Cadmium</b>	Sep 04/03	0.1 <MDL	ug/l	No
<b>Chromium</b>	Sep 04/03	3 <MDL	ug/l	No
<b>Lead Distribution</b>	Feb 17/03	See results above	ug/l	No
<b>Mercury</b>	Sep 04/03	0.1 <MDL	ug/l	No
<b>Selenium</b>	Sep 04/03	3 <MDL	ug/l	No
<b>Uranium</b>	Sep 04/03	0.48	ug/l	No
<b>Fluoride</b>	Sep 04/03	1.15	mg/l	No
<b>Nitrite</b>	Feb 17/03 May 12/03 Sep 04/03 Dec 18/03	ND ND 0.011 <MDL 0.011 <MDL	mg/l	No
<b>Nitrate</b>	Feb 17/03 May 12/03 Sep 04/03 Dec 18/03	ND ND 0.021 <MDL 0.021 <MDL	mg/l	No

**Summary of Organic parameters sampled during this reporting period or most recent Well #3**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Sep 04/03	0.11 <MDL	ug/l	No
Aldicarb	Sep 04/03	0.30 <MDL	ug/l	No
Aldrin + Dieldrin	Sep 04/03	0.067 <MDL	ug/l	No
Atrazine + N-dealkylated metabolites	Sep 04/03	0.12 <MDL	ug/l	No
Azinphos-methyl	Sep 04/03	0.21 <MDL	ug/l	No
Bendiocarb	Sep 04/03	0.13 <MDL	ug/l	No
Benzene	Sep 04/03	0.36 <MDL	ug/l	No
Benzo(a)pyrene	Sep 04/03	0.004 <MDL	ug/l	No
Bromoxynil	Sep 04/03	0.094 <MDL	ug/l	No
Carbaryl	Sep 04/03	0.16 <MDL	ug/l	No
Carbofuran	Sep 04/03	0.37 <MDL	ug/l	No
Carbon Tetrachloride	Sep 04/03	0.34 <MDL	ug/l	No
Chlordane (Total)	Sep 04/03	0.11 <MDL	ug/l	No
Chlorpyrifos	Sep 04/03	0.18 <MDL	ug/l	No
Cyanazine	Sep 04/03	0.18 <MDL	ug/l	No
Diazinon	Sep 04/03	2 <MDL	ug/l	No
Dicamba	Sep 30/03	10 <MDL	ug/l	No
1,2-Dichlorobenzene	Sep 04/03	0.56 <MDL	ug/l	No
1,4-Dichlorobenzene	Sep 04/03	0.25 <MDL	ug/l	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Sep 04/03	0.14 <MDL	ug/l	No
1,2-Dichloroethane	Sep 04/03	0.32 <MDL	ug/l	No
1,1-Dichloroethylene (vinylidene chloride)	Sep 04/03	0.52 <MDL	ug/l	No
Dichloromethane	Sep 04/03	1.17 <MDL	ug/l	No
2-4 Dichlorophenol	Sep 04/03	0.15 <MDL	ug/l	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Sep 04/03	0.11 <MDL	ug/l	No
Diclofop-methyl	Sep 04/03	0.13 <MDL	ug/l	No
Dimethoate	Sep 04/03	0.12 <MDL	ug/l	No
Dinoseb	Sep 04/03	0.084 <MDL	ug/l	No
Diquat	Sep 04/03	1 <MDL	ug/l	No
Diuron	Sep 04/03	0.087 <MDL	ug/l	No
Glyphosate	Sep 04/03	6 <MDL	ug/l	No
Heptachlor + Heptachlor Epoxide	Sep 04/03	0.11 <MDL	ug/l	No
Linadane (Total)	Sep 04/03	0.056 <MDL	ug/l	No
Malathion	Sep 04/03	0.091 <MDL	ug/l	No
Methoxychlor	Sep 04/03	0.14 <MDL	ug/l	No
Metolachlor	Sep 30/03	5 <MDL	ug/l	No
Metribuzin	Sep 04/03	0.12 <MDL	ug/l	No

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Monochlorobenzene	Sep 04/03	0.46 <MDL	ug/l	No
Paraquat	Sep 04/03	1 <MDL	ug/l	No
Parathion	Sep 04/03	0.18 <MDL	ug/l	No
Pentachlorophenol	Sep 04/03	0.15 <MDL	ug/l	No
Phorate	Sep 30/03	0.5 <MDL	ug/l	No
Picloram	Sep 04/03	0.20 <MDL	ug/l	No
Polychlorinated Biphenyls(PCB)	Sep 04/03	0.04 <MDL	ug/l	No
Prometryne	Sep 04/03	0.23 <MDL	ug/l	No
Simazine	Sep 04/03	0.15 <MDL	ug/l	No
THM Distribution (NOTE: show latest quarterly average) average – 10.775 ug/l	Feb 17/03 May 12/03 Sep 04/03 Dec 18/03	See results above	ug/l	No
Temephos	Sep 04/03	0.31 <MDL	ug/l	No
Terbufos	Sep 30/03	0.7 <MDL	ug/l	No
Tetrachloroethylene	Sep 04/03	0.48 <MDL	ug/l	No
2,3,4,6-Tetrachlorophenol	Sep 04/03	0.14 <MDL	ug/l	No
Triallate	May 12/03	ND	ug/l	No
Trichloroethylene	Sep 04/03	0.54 <MDL	ug/l	No
2,4,6-Trichlorophenol	Sep 04/03	0.25 <MDL	ug/l	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Sep 04/03	0.14 <MDL	ug/l	No
Trifluralin	May 12/03	ND	ug/l	No
Vinyl Chloride	Sep 04/03	0.08 <MDL	ug/l	No

### Summary of Inorganic parameters tested during this reporting period or most recent Well #6

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Sep 04/03	0.6 <MDL	ug/l	No
Arsenic	Sep 04/03	18	ug/l	No
Barium	Sep 04/03	110	ug/l	No
Boron	Sep 04/03	21	ug/l	No
Cadmium	Sep 04/03	0.1 <MDL	ug/l	No
Chromium	Sep 04/03	3 <MDL	ug/l	No
Lead Distribution	Feb 17/03	See results above	ug/l	No
Mercury	Sep 04/03	0.1 <MDL	ug/l	No
Selenium	Sep 04/03	3 <MDL	ug/l	No
Uranium	Sep 04/03	0.52	ug/l	No
Fluoride	Sep 04/03	1.11	mg/l	No
Nitrite	Feb 17/03 May 12/03 Sep 04/03	ND ND 0.011 MDL	mg/l	No



	Dec 18/03	0.011 MDL		
Nitrate	Feb 17/03	ND	mg/l	No
	May 12/03	ND		
	Sep 04/03	0.021 MDL		
	Dec 18/03	0.021 MDL		

**Summary of Organic parameters sampled during this reporting period or most recent Well #6**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	Sep 04/03	0.11 <MDL	ug/l	No
Aldicarb	Sep 04/03	0.30 <MDL	ug/l	No
Aldrin + Dieldrin	Sep 04/03	0.067 <MDL	ug/l	No
Atrazine + N-dealkylated metabolites	Sep 04/03	0.12 <MDL	ug/l	No
Azinphos-methyl	Sep 04/03	0.21 <MDL	ug/l	No
Bendiocarb	Sep 04/03	0.13 <MDL	ug/l	No
Benzene	Sep 04/03	0.36 <MDL	ug/l	No
Benzo(a)pyrene	Sep 04/03	0.004 <MDL	ug/l	No
Bromoxynil	Sep 04/03	0.094 <MDL	ug/l	No
Carbaryl	Sep 04/03	0.16 <MDL	ug/l	No
Carbofuran	Sep 04/03	0.37 <MDL	ug/l	No
Carbon Tetrachloride	Sep 04/03	0.34 <MDL	ug/l	No
Chlordane (Total)	Sep 04/03	0.11 <MDL	ug/l	No
Chlorpyrifos	Sep 04/03	0.18 <MDL	ug/l	No
Cyanazine	Sep 04/03	0.18 <MDL	ug/l	No
Diazinon	Sep 04/03	2 <MDL	ug/l	No
Dicamba	Sep 30/03	10 <MDL	ug/l	No
1,2-Dichlorobenzene	Sep 04/03	0.56 <MDL	ug/l	No
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1,2-Dichloroethane	Sep 04/03	0.32 <MDL	ug/l	No
1,1-Dichloroethylene (vinylidene chloride)	Sep 04/03	0.52 <MDL	ug/l	No
Dichloromethane	Sep 04/03	1.17 <MDL	ug/l	No
2-4 Dichlorophenol	Sep 04/03	0.15 <MDL	ug/l	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Sep 04/03	0.11 <MDL	ug/l	No
Diclofop-methyl	Sep 04/03	0.13 <MDL	ug/l	No
Dimethoate	Sep 04/03	0.12 <MDL	ug/l	No
Dinoseb	Sep 04/03	0.084 <MDL	ug/l	No
Diquat	Sep 04/03	1 <MDL	ug/l	No
Diuron	Sep 04/03	0.087 <MDL	ug/l	No
Glyphosate	Sep 04/03	6 <MDL	ug/l	No

Heptachlor + Heptachlor Epoxide	Sep 04/03	0.11 <MDL	ug/l	No
Linadane (Total)	Sep 04/03	0.056 <MDL	ug/l	No
Malathion	Sep 04/03	0.091 <MDL	ug/l	No
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Metolachlor	Sep 30/03	5 <MDL	ug/l	No
Metribuzin	Sep 04/03	0.12 <MDL	ug/l	No
Monochlorobenzene	Sep 04/03	0.46 <MDL	ug/l	No
Paraquat	Sep 04/03	1 <MDL	ug/l	No
Parathion	Sep 04/03	0.18 <MDL	ug/l	No
Pentachlorophenol	Sep 04/03	0.15 <MDL	ug/l	No
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THM Distribution (NOTE: show latest quarterly average) average – 10.775ug/l	Feb 17/03 May 12/03 Sep 04/03 Dec 18/03	See results above	ug/l	No
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Terbufos	Sep 30/03	0.07 <MDL	ug/l	No
Tetrachloroethylene	Sep 04/03	0.48 <MDL	ug/l	No
2,3,4,6-Tetrachlorophenol	Sep 04/03	0.14 <MDL	ug/l	No
Triallate	May 12/03	ND	ug/l	No
Trichloroethylene	Sep 04/03	0.54 <MDL	ug/l	No
2,4,6-Trichlorophenol	Sep 04/03	0.25 <MDL	ug/l	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Sep 04/03	0.14 <MDL	ug/l	No
Trifluralin	May 12/03	ND	ug/l	No
Vinyl Chloride	Sep 04/03	0.08 <MDL	ug/l	No

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 category is large municipal residential, small municipal residential, large municipal non residential, small municipal non residential, large non municipal non residential)