

Annual Data Summary - Treated Water Volatile Organic and Inorganic Data
 (Complete a separate sheet for each input into the Distribution System)

Water Works Name: Lakeshore Drinking Water System

Well No. (if applicable):

Year: 2010

Serviced Population: 3500

Laboratories Which Performer Analyses: SGS Lakefield Research

Water Works #: 220000425

Parameter	Analysis		Analysis Murdock Glen (ug/L)	Analysis Blairs Grove (ug/L)	Analysis Huronville (ug/L)	Maximum Allowable Level (ug/L)	Analysis Pt. Clarke mg/l	Analysis Murdock Glen mg/l	Analysis Blairs Grove mg/l	Analysis Huronville mg/l	Maximum Allowable Level mg/l
	Date (MM/DD/YY)	Pt. Clarke (ug/L)									
Schedule 23 & 24											
Antimony	6/2/2009	<0.02	<0.02	<0.02	<0.02	6					
Arsenic	8/12/2011	5.5	1.8	3.7	0.9	25					
Arsenic	11/15/2011	5.7	1.9	3.7	1	25					
Barium	6/2/2009	27.5	27.7	5.41	23.5	1000					
Boron	"	61.1	125	124	144	5000					
Cadmium	"	<0.003	0.012	<0.003	<0.003	5					
Chromium	"	<0.5	<0.5	0.7	<0.5	50					
Mercury	"	<0.02	<0.02	<0.02	<0.02	1					
Sodium	6/17/2011						16	49.7	86.4	46.6	20
Fluoride	8/12/2011						2.15	2.04	1.76	2.22	1.5
Fluoride	11/15/2011						2.29	2.26	1.91	2.43	1.5
Selenium	8/12/2011	<1	<1	<1	<1	10					
Selenium	11/15/2011	<1	<1	<1	<1	10					
Thallium	4/13/2011	<0.02				0.02					
Uranium	6/2/2009	0.608	1.56	0.449	0.349	20					
Benzene	"	<0.37	<0.37	<0.37	<0.37	5					
Carbon Tetrachloride	"	<0.41	<0.41	<0.41	<0.41	5					
1,2-Dichlorobenzene	"	<0.50	<0.50	<0.50	<0.50	200					
1,4-Dichlorobenzene	"	<0.21	<0.21	<0.21	<0.21	5					
1,1-Dichloroethylene	"	<0.41	<0.41	<0.41	<0.41	14					
1,2-Dichloroethane	"	<0.43	<0.43	<0.43	<0.43	5					
Dichloromethane	"	<0.34	<0.34	<0.34	<0.34	50					
Monochlorobenzene	"	<0.58	<0.58	<0.58	<0.58	80					
Tetrachloroethylene	"	<0.45	<0.45	<0.45	<0.45	30					
Trichloroethylene	"	<0.38	<0.38	<0.38	<0.38	5					
Vinyl Chloride	"	<0.17	<0.17	<0.17	<0.17	2					
Diquat	"	<1	<1	<1	<1	70					
Paraquat	"	<1	<1	<1	<1	10					
Glyphosate	"	<6	<6	<6	<6	280					
Polychlorinated Biphenyls	"	<0.04	<0.04	<0.04	<0.04	3					
Benzo(a)pyrene	"	<0.004	<0.004	<0.004	<0.004	0.01					
2,4-dichlorophenol	"	<0.15	<0.15	<0.15	<0.15	900					
2,4,6-trichlorophenol	"	<0.25	<0.25	<0.25	<0.25	5					
2,3,4,5-tetrachlorophenol	"	<0.14	<0.14	<0.14	<0.14	100					
Pentachlorophenol	"	<0.15	<0.15	<0.15	<0.15	60					
Alachlor	"	<0.11	<0.11	<0.11	<0.11	5					
Aldicarb	"	<0.30	<0.30	<0.30	<0.30	9					
Aldrin+Dieldrin	"	<0.067	<0.067	<0.067	<0.067	0.7					
Aldrin	"	<0.060	<0.060	<0.060	<0.060						
Dieldrin	"	<0.067	<0.067	<0.067	<0.067						
Atrazine+N-dealkylated metabolites	"	<0.12	<0.12	<0.12	<0.12	5					
Atrazine	"	<0.11	<0.11	<0.11	<0.11						
De-ethylated atrazine	"	<0.12	<0.12	<0.12	<0.12						
Azinphos-methyl	"	<0.21	<0.21	<0.21	<0.21	20					

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Bendiocarb	"	<0.13	<0.13	<0.13	<0.13	40				
Carbaryl	"	<0.16	<0.16	<0.16	<0.16	90				
Carbofuran	"	<0.37	<0.37	<0.37	<0.37	90				
Chlordane	"	<0.11	<0.11	<0.11	<0.11	7				
a-chlordane	"	<0.069	<0.069	<0.069	<0.069					
g-chlordane	"	<0.063	<0.063	<0.063	<0.063					
Oxychlordane	"	<0.11	<0.11	<0.11	<0.11					
Chlorpyrifos	"	<0.18	<0.18	<0.18	<0.18	90				
Cyanazine	"	<0.18	<0.18	<0.18	<0.18	10				
Diazinon	"	<0.081	<0.081	<0.081	<0.081	20				
(DDT)+Metabolites	"	<0.14	<0.14	<0.14	<0.14	30				
op-DDT	"	<0.095	<0.095	<0.095	<0.095					
pp-DDD	"	<0.098	<0.098	<0.098	<0.098					
pp-DDE	"	<0.075	<0.075	<0.075	<0.075					
pp-DDT	"	<0.14	<0.14	<0.14	<0.14					
Dimethoate	"	<0.12	<0.12	<0.12	<0.12	20				
Diuron	"	<0.087	<0.087	<0.087	<0.087	150				
Heptachlor-Heptachlor Epoxide	"	<0.11	<0.11	<0.11	<0.11	3				
Heptachlor	"	<0.061	<0.061	<0.061	<0.061					
Heptachlor-epoxide	"	<0.11	<0.11	<0.11	<0.11					
Lindane	"	<0.056	<0.056	<0.056	<0.056	4				
Malathion	"	<0.091	<0.091	<0.091	<0.091	190				
Methoxychlor	"	<0.14	<0.14	<0.14	<0.14	900				
Metolachlor	"	<0.092	<0.092	<0.092	<0.092	50				
Metribuzin	"	<0.12	<0.12	<0.12	<0.12	80				
Parathion	"	<0.18	<0.18	<0.18	<0.18	50				
Phorate	"	<0.11	<0.11	<0.11	<0.11	2				
Prometryne	"	<0.23	<0.23	<0.23	<0.23	1				
Simazine	"	<0.15	<0.15	<0.15	<0.15	10				
Temephos	"	<0.31	<0.31	<0.31	<0.31	280				
Terbufos	"	<0.12	<0.12	<0.12	<0.12	1				
Triallate	"	<0.10	<0.10	<0.10	<0.10	230				
Trifluralin	"	<0.12	<0.12	<0.12	<0.12	45				
2,4-dichlorophenoxyacetic acid	"	<0.19	<0.19	<0.19	<0.19	100				
2,4,5-trichlorophenoxyacetic acid	"	<0.22	<0.22	<0.22	<0.22	280				
Bromoxynil	"	<0.33	<0.33	<0.33	<0.33	5				
Dicamba	"	<0.20	<0.20	<0.20	<0.20	120				
Diclofop-methyl	"	<0.40	<0.40	<0.40	<0.40	9				
Dinoseb	"	<0.36	<0.36	<0.36	<0.36	10				
Picloram	"	<0.25	<0.25	<0.25	<0.25	190				

Water Works Name:	<u>Lakeshore Drinking Water System</u>
Well No. (if applicable):	<u>N/A</u>
Year:	<u>2011</u>
Serviced Population:	<u>3200</u>
Laboratories which Performed Analyses:	<u>SGS Lakefield Research</u>

Distribution Water

Month	Total Coliform			Fecal Coliform / Escherichia Coli			HPC or MF			BKG		
	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Unsafe"	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Unsafe"	No. of Samples Collected	No. of Samples "Safe"	No. of Samples Deteriorating	No. of Samples Collected	No. of Samples "Safe"	No. of Samples Deteriorating
Jan '11	28	28	0	28	28	0	16	16	0			
Feb '11	28	28	0	28	28	0	16	16	0			
Mar '11	35	35	0	35	35	0	20	20	0			
Apr '11	28	28	0	28	28	0	16	16	0			
May '11	35	35	0	35	35	0	20	20	0			
Jun '11	27	27	0	27	27	0	15	15	0			
Jul '11	27	27	0	27	27	0	16	16	0			
Aug '11	35	35	0	35	35	0	20	20	0			
Sep '11	28	28	0	28	28	0	16	16	0			
Oct '11	28	28	0	28	28	0	16	16	0			
Nov '11	35	35	0	35	35	0	20	20	0			
Dec '11	28	28	0	28	28	0	16	16	0			
Total	362	362	0	362	362	0	207	207	0			

INDICATORS OF UNSAFE DRINKING WATER QUALITY:

If any of the following conditions exist, the drinking water is judged unsafe:

1. Escherichia coli and/or fecal coliforms are detected in any distribution sample by any analytical method;
2. Total coliforms are detected in consecutive samples from the same site or in multiple samples taken as a single submission from a distribution system.

If the water contains any indicators of unsafe water quality for any of the reasons outlined above, the laboratory will immediately notify the MOEE District Officer who will immediately notify the Medical Officer of Health and the operating authority to initiate collection of special samples and/or take corrective action.

INDICATORS OF DETERIORATING DRINKING WATER QUALITY

Any of the following conditions indicate a deterioration in drinking water quality:

- a) total coliforms detected as a single occurrence (but not Escherichia coli or other fecal coliforms);
- b) samples contain more than 500 colonies per ml on a heterotrophic plate count analysis;
- c) samples contain more than 200 background colonies on a total coliform membrane filter analysis;
- d) Aeromonas spp., Pseudomonas aeruginosa, Staphylococcus aureus, Clostridium spp. Or members of the Fecal Streptococcus (Enterococcus) group are detected.

If these conditions occur, the MOEE Dist. Mang. Should be notified.

Water Works Name: Lakeshore Drinking Water System
Well No. (if applicable): Blairs Grove
Year: 2011
Serviced Population 3500
Laboratories Which Performed Analyses: SGS Lakefield Research & Veolia Water Canada
Water Works 220000425

Month	Fluoride			Treated Water Nitrite			Treated Water Nitrate			THM's	
	No. of Samples Collected	Average Residual mg/L	Maximum Residual mg/L	No. of Samples Collected	Average Nitrite mg/L	Maximum Nitrite mg/L	No. of Treated Samples Collected	Average Nitrate (mg/L)	Maximum Nitrate mg/L	No of Samples	Result ug/l
Jan.											
Feb.				1	<0.005	<0.005	1	<0.013	<0.013	1	8.3
Mar.											
Apr.											
May				1	<0.005	<0.005	1	<0.013	<0.013	1	9.5
June											
July											
August				1	<0.005	<0.005	1	<0.013	<0.013	1	10
Sept											
Oct.											
Nov				1	<0.005	<0.005	1	<0.013	<0.013	1	10
Dec				1	<0.005	<0.005	1	<0.013	<0.013		
Total	0			5			5				
Average					#DIV/0!						
Maximum			0			0			0		
ODWQS											

Where nitrate and nitrite are present, the total of the two should not exceed 10 mg/L
 The maximum allowable level of THM's is 100 ug/l
 Fluoride levels above 1.5 mg/L should be reported to the Medical Officer of Health

Water Works Name:

Lakeshore Drinking Water System

Well No. (if applicable):

Blairs Grove

Year:

2011

Serviced Population

3200

Laboratories Which Performed Analyses:

SGS Lakefield Research

Water Works Number

220000425

Raw Water

Month	Total Coliform				Fecal Coliform / Escherichia Coli				Raw Water Turbidity	
	No. of Samples Collected	No. of Samples 0-100	No. of Samples 101-9000	No. of Samples >9000	No. of Samples Collected	No. of Samples 0-10	No. of Samples 11-900	No. of Samples >900	Number Samples >1 NTU	Average NTU
Jan '11	4	4	0	0	4	4	0	0	0	0.09
Feb '11	4	4	0	0	4	4	0	0	0	0.12
Mar '11	5	5	0	0	5	5	0	0	0	0.14
Apr '11	3	3	0	0	3	3	0	0	0	0.16
May '11	5	5	0	0	5	5	0	0	0	0.14
Jun '11	4	4	0	0	4	4	0	0	0	0.14
Jul '11	4	4	0	0	4	4	0	0	0	0.15
Aug '11	5	5	0	0	5	5	0	0	0	0.27
Sep '11	4	4	0	0	4	4	0	0	0	0.21
Oct '11	4	4	0	0	4	4	0	0	0	0.10
Nov '11	5	5	0	0	5	5	0	0	0	0.10
Dec '11	4	4	0	0	4	4	0	0	0	0.10
Total	51	51	0	0	51	51	0	0	0	0.14

Water Works Name:
 Well No. (if applicable):
 Year:
 Serviced Population:
 Laboratories which Performed Analyses:

Lakeshore Drinking Water System
Blairs Grove
2011
3200
SGS Lakefield Research

Treated Water

Month	Total Coliform			Fecal Coliform / Escherichia Coli			HPC or MF			BKG		
	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Unsafe"	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Unsafe"	No. of Samples Collected	No. of Samples "Safe"	No. of Samples Deteriorating	No. of Samples Collected	No. of Samples "Safe"	No. of Samples Deteriorating
Jan '11	4	4	0	4	4	0	4	4	0	0	0	0
Feb '11	4	4	0	4	4	0	4	4	0	0	0	0
Mar '11	5	5	0	5	5	0	5	5	0	0	0	0
Apr '11	4	4	0	4	4	0	4	4	0	0	0	0
May '11	5	5	0	5	5	0	5	5	0	0	0	0
Jun '11	4	4	0	4	4	0	4	4	0	0	0	0
Jul '11	4	4	0	4	4	0	4	4	0	0	0	0
Aug '11	5	5	0	5	5	0	5	5	0	0	0	0
Sep '11	4	4	0	4	4	0	4	4	0	0	0	0
Oct '11	4	4	0	4	4	0	4	4	0	0	0	0
Nov '11	5	5	0	5	5	0	5	5	0	0	0	0
Dec '11	4	4	0	4	4	0	4	4	0	0	0	0
Total	52	52	0	52	52	0	52	52	0	0	0	0

INDICATORS OF UNSAFE DRINKING WATER QUALITY:

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- b) samples contain more than 500 colonies per ml on a heterotrophic plate count analysis;
- c) samples contain more than 200 background colonies on a total coliform membrane filter analysis;
- d) Aeromonas spp., Pseudomonas aeruginosa, Staphylococcus aureus, Clostridium spp. Or members of the Fecal Streptococcus (Enterococcus) group are detected.

If these conditions occur, the MOEE Dist. Mang. Should be notified.

Water Works Name: **Lakeshore Drinking Water System**
 Well No. (if applicable): **Blairs**
 Year: **2011**
 Serviced Population: **3200**
 Laboratories Which Performed Analyses: **Veolia Water Canada**
 Water Works Number: **220000425**

Month	Treated Water Flow			Process Wastewater Monthly Total (1000 m3)	Treated Water Turbidity			Treated Disinfectant		Treated Disinfectant- SCADA		Dist. System Disinfectant	
	Average Daily (1000 m3)	Maximum Daily (1000 m3)	Monthly Total (1000 m3)		No. of Samples Collected	No. of Samples > 1NTU	Average Turbidity NTU	No. of Treated Samples Collected	Average Residual (mg/L)	Minimum Online Residual (mg/L)	Maximum Online Residual (mg/L)	No. of Dist. Samp. Collected	No. of Samples < 0.05
Jan '11	0.011	0.150	0.338		31	0	0.317	31	1.33	1.05	1.18	59	0
Feb '11	0.023	0.178	0.644		28	0	0.371	28	1.31	0.94	1.14	56	0
Mar '11	0.029	0.210	0.907		31	0	0.346	31	1.34	0.88	1.22	66	0
Apr '11	0.030	0.278	0.797		27	0	0.429	24	1.40	1.10	8.50	58	0
May '11	0.365	1.003	11.300		31	0	0.338	31	1.25	0.95	1.66	66	0
Jun '11	0.056	0.345	1.670		30	0	0.439	30	1.30	1.04	1.57	57	0
Jul '11	0.285	1.239	8.820		30	0	0.219	31	1.42	0.77	1.84	58	0
Aug '11	0.166	0.689	5.156		31	0	0.226	31	1.22	0.86	2.01	66	0
Sep '11	0.060	0.445	1.785		30	0	0.257	30	1.16	1.08	1.66	58	0
Oct '11	0.048	0.572	1.479		12	0	0.233	31	1.13	0.83	1.59	59	0
Nov '11	0.019	0.179	0.565		4	0	0.658	30	1.12	1.12	1.59	65	0
Dec '11	0.073	1.672	2.276		1	0	0.410	31	1.17	1.02	2.07	59	0
Total			35.737		286	0		359				727	0
Average	0.099						0.326		1.26				
Maximum		1.672											

Disinfectant Compound Used: Sodium Hypochlorite
 (EG. Chlorine Gas, NaOCl, etc.)

Form of Residual Displayed on above table: Free
 (EG. Free, Combined, or Total)

Quantity of Disinfectant used during the year (kg): 120.20

Distribution system target residual (mg/L): > 0.20

Maximum Amount Taken Per Day (m3): 1,672

Lakeshore Drinking Water System
 Chemical Usage
 2011
 Blairs Grove

Month	Sodium Silicate		Sodium Hypochlorite	
	Usage kg.	Dosage mg/L	Usage Kg.	Dosage mg/L
Jan '11	13.94	41.24	1.52	4.49
Feb '11	26.49	41.13	2.76	4.29
Mar '11	36.24	39.96	3.73	4.11
Apr '11	36.24	45.48	3.31	4.16
May '11	397.29	35.16	35.05	3.10
Jun '11	52.97	31.72	6.35	3.80
Jul '11	253.71	28.77	31.88	3.61
Aug '11	163.10	31.63	18.49	3.59
Sep '11	46.00	25.77	6.35	3.56
Oct '11	36.24	24.51	6.07	4.11
Nov '11	57.15	101.16	2.35	4.15
Dec '11	20.91	9.19	2.35	1.03
Total	1,140.29	31.91	120.20	3.36

Notes:

- 1) The sodium hypochlorite is used as a source of chlorine
- 2) The sodium silicate is used as a treatment for iron.

All quantities of chemicals are listed as the available chemical in the solutions and not the total physical quantities.

Annual Summary - Fluoride, Nitrite, Nitrate, and Colour
 (Complete a separate sheet for each input into the Distribution System)

Water Works Name: Lakeshore Drinking Water System
Well No. (if applicable): Huronville
Year: 2011
Serviced Population 3500
Laboratories Which Performed Analyses: SGS Lakefield Research & Veolia Water Canada
Water Works 220000425

Month	Fluoride			Treated Water Nitrite			Treated Water Nitrate			THM's	
	No. of Samples Collected	Average Residual mg/L	Maximum Residual mg/L	No. of Samples Collected	Average Nitrite mg/L	Maximum Nitrite mg/L	No. of Treated Samples Collected	Average Nitrate (mg/L)	Maximum Nitrate mg/L	No of Samples	Result ug/l
Jan.											
Feb.				1	<0.005	<0.005	1	<0.013	<0.013	1	6.9
Mar.											
Apr.											
May				1	<0.005	<0.005	1	<0.013	<0.013	1	9.6
June											
July											
August				1	<0.005	<0.005	1	<0.013	<0.013	1	5.6
Sept											
Oct.											
Nov				1	<0.005	<0.005	1	<0.013	<0.013		
Dec										1	14
Total	0			4			4				
Average					#DIV/0!						
Maximum			0			0			0		
ODWQS											

Where nitrate and nitrite are present, the total of the two should not exceed 10 mg/L

The maximum allowable level of THM's is 100 ug/l

Fluoride levels above 1.5 mg/L should be reported to the Medical Officer of Health

Water Works Name:
 Well No. (if applicable):
 Year:
 Serviced Population
 Laboratories Which Performed Analyses:
 Water Works Number

Lakeshore Drinking Water System
Huronville
2011
3200
SGS Lakefield Research
220000425

Raw Water

Month	Total Coliform				Fecal Coliform / Escherichia Coli				Raw Water Turbidity	
	No. of Samples Collected	No. of Samples 0-100	No. of Samples 101-9000	No. of Samples >9000	No. of Samples Collected	No. of Samples 0-10	No. of Samples 11-900	No. of Samples >900	No. Samples <1 NTU	Average NTU
Jan '11	4	4	0	0	4	4	0	0	0	0.37
Feb '11	4	4	0	0	4	4	0	0	0	0.26
Mar '11	5	5	0	0	5	5	0	0	0	0.27
Apr '11	4	4	0	0	4	4	0	0	1	0.68
May '11	1	1	0	0	1	1	0	0	0	0.18
Jun '11	2	2	0	0	2	2	0	0	0	0.71
Jul '11	4	4	0	0	4	4	0	0	0	0.30
Aug '11	5	5	0	0	5	5	0	0	0	0.11
Sep '11	4	4	0	0	4	4	0	0	0	0.09
Oct '11	4	4	0	0	4	4	0	0	0	0.14
Nov '11	5	5	0	0	5	5	0	0	0	0.14
Dec '11	4	4	0	0	4	4	0	0	0	0.37
Total	46	46	0	0	46	46	0	0	1	0.36

Water Works Name:	<u>Lakeshore Drinking Water System</u>
Well No. (if applicable):	<u>Huronville</u>
Year:	<u>2011</u>
Serviced Population:	<u>3200</u>
Laboratories which Performed Analyses:	<u>SGS Lakefield Research</u>

Treated Water

Month	Total Coliform			Fecal Coliform / Escherichia Coli			HPC or MF			BKG		
	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Unsafe"	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Unsafe"	No. of Samples Collected	No. of Samples "Safe"	No. of Samples Deteriorating	No. of Samples Collected	No. of Samples "Safe"	No. of Samples Deteriorating
Jan '11	4	4	0	4	4	0	4	4	0	0	0	0
Feb '11	4	4	0	4	4	0	4	4	0	0	0	0
Mar '11	5	5	0	5	5	0	5	5	0	0	0	0
Apr '11	4	4	0	4	4	0	4	4	0	0	0	0
May '11	3	3	0	3	3	0	3	3	0	0	0	0
Jun '11	2	2	0	2	2	0	2	2	0	0	0	0
Jul '11	4	4	0	4	4	0	4	4	0	0	0	0
Aug '11	5	5	0	5	5	0	5	5	0	0	0	0
Sep '11	4	4	0	4	4	0	4	4	0	0	0	0
Oct '11	4	4	0	4	4	0	4	4	0	0	0	0
Nov '11	5	5	0	5	5	0	5	5	0	0	0	0
Dec '11	4	4	0	4	4	0	4	4	0	0	0	0
Total	48	48	0	48	48	0	48	48	0	0	0	0

INDICATORS OF UNSAFE DRINKING WATER QUALITY:

If any of the following conditions exist, the drinking water is judged unsafe:

1. Escherichia coli and/or fecal coliforms are detected in any distribution sample by any analytical method;
2. Total coliforms are detected in consecutive samples from the same site or in multiple samples taken as a single submission from a distribution system.

If the water contains any indicators of unsafe water quality for any of the reasons outlined above, the laboratory will immediately notify the MOEE District Officer who will immediately notify the Medical Officer of Health and the operating authority to initiate collection of special samples and/or take corrective action.

INDICATORS OF DETERIORATING DRINKING WATER QUALITY

Any of the following conditions indicate a deterioration in drinking water quality:

- a) total coliforms detected as a single occurrence (but not Escherichia coli or other fecal coliforms);
- b) samples contain more than 500 colonies per ml on a heterotrophic plate count analysis;
- c) samples contain more than 200 background colonies on a total coliform membrane filter analysis;
- d) Aeromonas spp., Pseudomonas aeruginosa, Staphylococcus aureus, Clostridium spp. Or members of the Fecal Streptococcus (Enterococcus) group are detected.

If these conditions occur, the MOEE Dist. Mang. Should be notified.

Water Works Name: **Lakeshore Drinking Water System**
 Well No. (if applicable): **Huronville**
 Year: **2011**
 Serviced Population: **3200**
 Laboratories Which Performed Analyses: **Veolia Water Canada**
 Water Works Number: **220000425**

Month	Treated Water Flow			Process Wastewater Monthly Total (1000 m3)	Treated Water Turbidity			Treated Disinfectant		Treated Disinfectant- SCADA		Dist. System Disinfectant	
	Average Daily (1000 m3)	Maximum Daily (1000 m3)	Monthly Total (1000 m3)		No. of Samples Collected	No. of Samples > 1NTU	Average Turbidity NTU	No. of treated Sample Collected	Average Residual (mg/L)	Minimum Online Residual (mg/L)	Maximum Online Residual (mg/L)	No. of Dist. Samp. Collected	No. of Samples < 0.05
Jan '11	0.205	0.326	6.349		31	4	0.649	31	1.29	1.23	1.43	59	0
Feb '11	0.199	0.283	5.565		26	0	0.346	28	1.31	1.24	1.49	56	0
Mar '11	0.190	0.292	5.875		31	0	0.449	31	1.17	1.04	1.40	66	0
Apr '11	0.202	0.311	6.073		30	8	1.492	30	1.21	1.02	1.51	58	0
May '11	0.030	0.284	0.907		30	0	0.217	31	1.33	1.03	2.00	66	0
Jun '11	0.118	0.668	3.549		28	5	0.552	30	1.33	1.08	1.74	57	0
Jul '11	1.139	1.685	35.310		29	0	0.237	31	1.27	1.02	1.52	58	0
Aug '11	1.026	1.645	31.792		16	0	0.177	31	1.19	0.95	1.62	66	0
Sep '11	0.519	0.943	15.576		17	1	0.331	30	1.22	1.00	2.00	58	0
Oct '11	0.273	0.605	8.472		8	0	0.188	31	1.25	1.05	1.43	59	0
Nov '11	0.125	0.368	3.627		3	0	0.127	29	1.28	0.97	2.00	65	0
Dec '11	0.002	0.054	0.056		1	0	0.140	31	1.26	0.69	1.63	59	0
Total			123.151		250	18		364	1.26			727	0
Average	0.339						0.508						
Maximum		1.685											

Disinfectant Compound Used: Sodium Hypochlorite
 (EG. Chlorine Gas, NaOCl, etc.)

Form of Residual Displayed on above table: Free
 (EG. Free, Combined, or Total)

Quantity of Disinfectant used during the year (kg): 356.32

Distribution system target residual (mg/L): > 0.20

Maximum Taken Per Day (m3): 1,685

Lakeshore Drinking Water System
 Chemical Usage
 2011
 Huronville

Month	Sodium Hypochlorite		Sodium Silicate	
	Usage kg.	Dosage mg/L	Usage Kg.	Dosage mg/L
Jan '11	16.84	2.65	43.21	6.81
Feb '11	15.18	2.73	37.64	6.76
Mar '11	15.04	2.56	39.03	6.64
Apr '11	16.97	2.79	29.27	4.82
May '11	2.76	3.04	4.18	4.61
Jun '11	10.07	2.84	9.76	2.75
Jul '11	98.81	2.80	197.95	5.61
Aug '11	90.80	2.86	164.49	5.17
Sep '11	46.37	2.98	52.97	3.40
Oct '11	25.81	3.05	20.21	2.39
Nov '11	14.49	4.00	10.46	2.88
Dec '11	3.17	56.68	2.79	49.79
Total	356.32	2.89	611.97	4.97

Notes:

- 1) The sodium hypochlorite is used as the disinfectant
- 2) The sodium silicate is used as a treatment for iron.

All quantities of chemicals are listed as the available chemical in the solutions and not the total physical quantities.

Lakeshore Drinking Water System
Huronville Raw Water

Date	Fluoride mg/L	Hardness mg/L	Calcium mg/L	Sodium mg/L
April 12/11	2.25	201	47.7	43.6

Water Works Name: Lakeshore Drinking Water System
Well No. (if applicable): Murdock Glen
Year: 2011
Serviced Population 3500
Laboratories Which Performed Analyses: SGS Lakefield Research & Veolia Water Canada
Water Works 220000425

Month	Fluoride			Treated Water Nitrite			Treated Water Nitrate			THM's	
	No. of Samples Collected	Average Residual mg/L	Maximum Residual mg/L	No. of Samples Collected	Average Nitrite mg/L	Maximum Nitrite mg/L	No. of Treated Samples Collected	Average Nitrate (mg/L)	Maximum Nitrate mg/L	No of Samples	Result ug/l
Jan.											
Feb.				1	<0.005	<0.005	1	<0.013	<0.013	1	16
Mar.											
Apr.											
May				1	<0.005	<0.005	1	<0.013	<0.013	1	11
June											
July											
August				1	<0.005	<0.005	1	<0.013	<0.013	1	10
Sept											
Oct.											
Nov				1	<0.005	<0.005	1	<0.013	<0.013	1	15
Dec											
Total	0			4			4				
Average					#DIV/0!						
Maximum			0			0			0		
ODWQS											

Where nitrate and nitrite are present, the total of the two should not exceed 10 mg/L
 The maximum allowable level of THM's is 100 ug/l
 Fluoride levels above 1.5 mg/L should be reported to the Medical Officer of Health

Water Works Name:
Well No. (if applicable):
Year:
Served Population
Laboratories Which Performed Analyses:
Water Works Number

Lakeshore Drinking Water System
Murdock Glen
2011
3200
SGS Lakefield Research
220000425

Raw Water

Month	Total Coliform				Fecal Coliform / Escherichia Coli				Raw Turbidity	
	No. of Samples Collected	No. of Samples 0-100	No. of Samples 101-9000	No. of Samples >9000	No. of Samples Collected	No. of Samples 0-10	No. of Samples 11-900	No. of Samples >900	No. of Samples >1 NTU	Average NTU
Jan '11	4	4	0	0	4	4	0	0	0	0.33
Feb '11	4	4	0	0	4	4	0	0	0	0.36
Mar '11	5	5	0	0	5	5	0	0	0	0.40
Apr '11	4	4	0	0	4	4	0	0	0	0.33
May '11	5	5	0	0	5	5	0	0	0	0.21
Jun '11	4	4	0	0	4	4	0	0	0	0.34
Jul '11	4	4	0	0	4	4	0	0	0	0.22
Aug '11	5	5	0	0	5	5	0	0	0	0.23
Sep '11	4	4	0	0	4	4	0	0	0	0.39
Oct '11	4	4	0	0	4	4	0	0	0	0.38
Nov '11	5	5	0	0	5	5	0	0	0	0.37
Dec '11	4	4	0	0	4	4	0	0	0	0.19
Total	52	52	0	0	52	52	0	0	0	0.32

Water Works Name:
 Well No. (if applicable):
 Year:
 Served Population:
 Laboratories which Performed Analyses:

Lakeshore Drinking Water System
Murdock Glen
2011
3200
SGS Lakefield Research

Treated Water

Month	Total Coliform			Fecal Coliform / Escherichia Coli			HPC or MF			BKG		
	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Unsafe"	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Unsafe"	No. of Samples Collected	No. of Samples "Safe"	No. of Samples Deteriorating	No. of Samples Collected	No. of Samples "Safe"	No. of Samples Deteriorating
Jan '11	4	4	0	4	4	0	4	4	0	0	0	0
Feb '11	4	4	0	4	4	0	4	4	0	0	0	0
Mar '11	5	5	0	5	5	0	5	5	0	0	0	0
Apr '11	4	4	0	4	4	0	4	4	0	0	0	0
May '11	5	5	0	5	5	0	5	5	0	0	0	0
Jun '11	4	4	0	4	4	0	4	4	0	0	0	0
Jul '11	4	4	0	4	4	0	4	4	0	0	0	0
Aug '11	5	5	0	5	5	0	5	5	0	0	0	0
Sep '11	4	4	0	4	4	0	4	4	0	0	0	0
Oct '11	4	4	0	4	4	0	4	4	0	0	0	0
Nov '11	5	5	0	5	5	0	5	5	0	0	0	0
Dec '11	4	4	0	4	4	0	4	4	0	0	0	0
Total	52	52	0	52	52	0	52	52	0	0	0	0

INDICATORS OF UNSAFE DRINKING WATER QUALITY:

If any of the following conditions exist, the drinking water is judged unsafe:

1. Escherichia coli and/or fecal coliforms are detected in any distribution sample by any analytical method;
2. Total coliforms are detected in consecutive samples from the same site or in multiple samples taken as a single submission from a distribution system.

If the water contains any indicators of unsafe water quality for any of the reasons outlined above, the laboratory will immediately notify the MOEE District Officer who will immediately notify the Medical Officer of Health and the operating authority to initiate collection of special samples and/or take corrective action.

INDICATORS OF DETERIORATING DRINKING WATER QUALITY

Any of the following conditions indicate a deterioration in drinking water quality:

- a) total coliforms detected as a single occurrence (but not Escherichia coli or other fecal coliforms);
- b) samples contain more than 500 colonies per ml on a heterotrophic plate count analysis;
- c) samples contain more than 200 background colonies on a total coliform membrane filter analysis;
- d) Aeromonas spp., Pseudomonas aeruginosa, Staphylococcus aureus, Clostridium spp. Or members of the Fecal Streptococcus (Enterococcus) group are detected.

If these conditions occur, the MOEE Dist. Mang. Should be notified.

Water Works Name:

Lakeshore Drinking Water System

Well No. (if applicable):

Murdock Glen

Year:

2011

Serviced Population

3200

Laboratories Which Performed Analyses:

Veolia Water Canada

Water Works Number

220000425

Month	Treated Water Flow			Process Wastewater Monthly Total (1000 m3)	Treated Water Turbidity			Treated Disinfectant		Treated Disinfectant-SCADA		Dist. System Disinfectant	
	Average Daily (1000 m3)	Maximum Daily (1000 m3)	Monthly Total (1000 m3)		No. of Samples Collected	No. of Samples > 1NTU	Average Turbidity NTU	No. of Treated Samples Collected	Average Residual (mg/L)	Minimum Online Residual (mg/L)	Maximum Online Residual (mg/L)	No. of Dist. Samp. Collected	No. of Samples < 0.05
Jan '11	0.037	0.068	1.153		31	0	0.16	31	1.40	1.18	1.58	59	0
Feb '11	0.039	0.136	1.081		28	0	0.20	28	1.31	0.75	1.47	56	0
Mar '11	0.034	0.056	1.050		31	0	0.18	31	1.40	1.19	1.58	66	0
Apr '11	0.041	0.077	1.224		30	0	0.18	30	1.34	1.05	1.58	58	0
May '11	0.417	0.866	12.919		31	1	0.21	31	1.36	1.14	1.61	66	0
Jun '11	0.503	1.183	15.083		29	0	0.18	30	1.35	0.62	1.52	57	0
Jul '11	0.238	0.343	7.380		31	0	0.18	31	1.23	1.08	1.42	58	0
Aug '11	0.217	0.425	6.737		31	0	0.19	31	1.28	1.01	1.43	66	0
Sep '11	0.132	0.587	3.974		30	0	0.21	30	1.33	1.21	1.51	58	0
Oct '11	0.069	0.372	2.140		12	0	0.20	31	1.22	0.99	1.47	59	0
Nov '11	0.147	0.351	4.412		4	0	0.25	30	1.31	1.12	1.56	65	0
Dec '11	0.258	0.420	7.985		1	0	0.14	31	1.35	0.41	2	59	0
Total			65.138		289	1		365				727	0
Average	0.178						0.19		1.32				
Maximum		1.183											

Disinfectant Compound Used
(EG. Chlorine Gas, NaOCl, etc.)

Sodium Hypochlorite

Form of Residual Displayed on above table:
(EG. Free, Combined, or Total)

Free

Quantity of Disinfectant used during the year (kg):

192.10

Distribution system target residual (mg/L)

> 0.20

Maximum Taken per Day (m3)

1,183

Lakeshore Drinking Water System

Chemical Usage

2011

Murdock Glen

Month	Sodium Silicate		Sodium Hypochlorite	
	Usage kg.	Dosage mg/L	Usage Kg.	Dosage mg/L
Jan '11	37.64	32.64	4.55	3.95
Feb '11	34.85	32.24	3.86	3.57
Mar '11	33.46	31.86	4.42	4.21
Apr '11	32.06	26.19	3.73	3.04
May '11	218.86	16.94	36.43	2.82
Jun '11	221.65	14.70	39.74	2.64
Jul '11	111.52	15.11	20.98	2.84
Aug '11	98.97	14.69	19.60	2.91
Sep '11	59.94	15.08	12.97	3.26
Oct '11	30.67	14.33	7.04	3.29
Nov '11	64.12	14.53	13.66	3.10
Dec '11	111.52	13.97	25.12	3.15
Total	1,055.26	19.68	192.10	3.32

Notes:

- 1) The sodium hypochlorite is used as a source of chlorine
- 2) The sodium silicate is used as a treatment for iron.

All quantities of chemicals are listed as the available chemical in the solutions and not the total physical quantities.

Water Works Name: Lakeshore Drinking Water System
Well No. (if applicable): Pt. Clarke
Year: 2011
Serviced Population 3500
Laboratories Which Performed Analyses: SGS Lakefield Research & Veolia Water Canada
Water Works 220000425

Month	Fluoride			Treated Water Nitrite			Treated Water Nitrate			THM's	
	No. of Samples Collected	Average Residual mg/L	Maximum Residual mg/L	No. of Samples Collected	Average Nitrite mg/L	Maximum Nitrite mg/L	No. of Treated Samples Collected	Average Nitrate (mg/L)	Maximum Nitrate mg/L	No of Samples	Result ug/l
Jan.											
Feb.				1	<0.005	<0.005	1	<0.013	<0.013	1	16
Mar.											
Apr.											
May				1	<0.005	<0.005	1	<0.013	<0.013	1	18
June											
July											
August				1	<0.005	<0.005	1	<0.013	<0.013	1	5.8
Sept											
Oct.											
Nov				1	<0.005	<0.005	1	<0.013	<0.013	1	9.4
Dec											
Total	0			4			4				
Average					#DIV/0!						
Maximum			0			0			0		
ODWQS											

Where nitrate and nitrite are present, the total of the two should not exceed 10 mg/L
 The maximum allowable level of THM's is 100 ug/l
 Fluoride levels above 1.5 mg/L should be reported to the Medical Officer of Health

Water Works Name:

Lakeshore Drinking Water System

Well No. (if applicable):

Well 1 Point Clarke

Year:

2011

Serviced Population

3200

Laboratories Which Performed Analyses:

SGS Lakefield Research

Water Works Number

220000425

Raw Water

Month	Total Coliform				Fecal Coliform / Escherichia Coli			
	No. of Samples Collected	No. of Samples 0-100	No. of Samples 101-9000	No. of Samples >9000	No. of Samples Collected	No. of Samples 0-10	No. of Samples 11-900	No. of Samples >900
Jan '11	4	4	0	0	4	4	0	0
Feb '11	4	4	0	0	4	4	0	0
Mar '11	5	5	0	0	5	5	0	0
Apr '11	4	4	0	0	4	4	0	0
May '11	7	7	0	0	7	7	0	0
Jun '11	4	4	0	0	4	4	0	0
Jul '11	4	4	0	0	4	4	0	0
Aug '11	5	5	0	0	5	5	0	0
Sep '11	4	4	0	0	4	4	0	0
Oct '11	4	4	0	0	4	4	0	0
Nov '11	5	5	0	0	5	5	0	0
Dec '11	4	4	0	0	4	4	0	0
Total	54	54	0	0	54	54	0	0

Water Works Name:	Lakeshore Drinking Water System
Well No. (if applicable):	Well 2 Point Clarke
Year:	2011
Serviced Population	3200
Laboratories Which Performed Analyses:	SGS Lakefield Research
Water Works Number	220000425

Raw Water

Month	Total Coliform				Fecal Coliform / Escherichia Coli			
	No. of Samples Collected	No. of Samples 0-100	No. of Samples 101-9000	No. of Samples >9000	No. of Samples Collected	No. of Samples 0-10	No. of Samples 11-900	No. of Samples >900
Jan '11	4	4	0	0	4	4	0	0
Feb '11	4	4	0	0	4	4	0	0
Mar '11	5	5	0	0	5	5	0	0
Apr '11	4	4	0	0	4	4	0	0
May '11	6	6	0	0	6	6	0	0
Jun '11	4	4	0	0	4	4	0	0
Jul '11	4	4	0	0	4	4	0	0
Aug '11	5	5	0	0	5	5	0	0
Sep '11	4	4	0	0	4	4	0	0
Oct '11	4	4	0	0	4	4	0	0
Nov '11	5	5	0	0	5	5	0	0
Dec '11	4	4	0	0	4	4	0	0
Total	53	53	0	0	53	53	0	0

Water Works Name:
 Well No. (if applicable):
 Year:
 Serviced Population:
 Laboratories which Performed Analyses:

Lakeshore Drinking Water System
Point Clark
2011
3200
SGS Lakefield Research

Treated Water

Month	Total Coliform			Fecal Coliform / Escherichia Coli			HPC or MF			BKG		
	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Unsafe"	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Unsafe"	No. of Samples Collected	No. of Samples "Safe"	No. of Samples Deteriorating	No. of Samples Collected	No. of Samples "Safe"	No. of Samples Deteriorating
Jan '11	4	4	0	4	4	0	4	4	0	0	0	0
Feb '11	4	4	0	4	4	0	4	4	0	0	0	0
Mar '11	5	5	0	5	5	0	5	5	0	0	0	0
Apr '11	4	4	0	4	4	0	4	4	0	0	0	0
May '11	6	6	0	6	6	0	5	5	0	0	0	0
Jun '11	4	4	0	4	4	0	4	4	0	0	0	0
Jul '11	4	4	0	4	4	0	4	4	0	0	0	0
Aug '11	5	5	0	5	5	0	5	5	0	0	0	0
Sep '11	4	4	0	4	4	0	4	4	0	0	0	0
Oct '11	4	4	0	4	4	0	4	4	0	0	0	0
Nov '11	5	5	0	5	5	0	5	5	0	0	0	0
Dec '11	4	4	0	4	4	0	4	4	0	0	0	0
Total	53	53	0	53	53	0	52	52	0	0	0	0

INDICATORS OF UNSAFE DRINKING WATER QUALITY:

If any of the following conditions exist, the drinking water is judged unsafe:

1. Escherichia coli and/or fecal coliforms are detected in any distribution sample by any analytical method;
2. Total coliforms are detected in consecutive samples from the same site or in multiple samples taken as a single submission from a distribution system.

If the water contains any indicators of unsafe water quality for any of the reasons outlined above, the laboratory will immediately notify the MOEE District Officer who will immediately notify the Medical Officer of Health and the operating authority to initiate collection of special samples and/or take corrective action.

INDICATORS OF DETERIORATING DRINKING WATER QUALITY

Any of the following conditions indicate a deterioration in drinking water quality:

- a) total coliforms detected as a single occurrence (but not Escherichia coli or other fecal coliforms);
- b) samples contain more than 500 colonies per ml on a heterotrophic plate count analysis;
- c) samples contain more than 200 background colonies on a total coliform membrane filter analysis;
- d) Aeromonas spp., Pseudomonas aeruginosa, Staphylococcus aureus, Clostridium spp. Or members of the Fecal Streptococcus (Enterococcus) group are detected.

If these conditions occur, the MOEE Dist. Mang. Should be notified.

Water Works Name:
 Well No. (if applicable):
 Year:
 Serviced Population
 Laboratories Which Performed Analyses:
 Water Works Number

Lakeshore Drinking Water System
Point Clark
2011
3200
Veolia Water Canada
220000425

Month	Treated Water Flow			Process Wastewater Monthly Total (1000 m3)	Treated Water Turbidity			Treated Disinfectant		Treated Disinfectant- SCADA		Dist. System Disinfectant	
	Average Daily (1000 m3)	Maximum Daily (1000 m3)	Monthly Total (1000 m3)		No. of Samples Collected	No. of Samples > 1NTU	Average Turbidity NTU	No. of Treated Sample Collected	Average Residual (mg/L)	Minimum Online Residual (mg/L)	Maximum Online Residual (mg/L)	No. of Dist. Samp. Collected	No. of Samples < 0.05
Jan '11	0.484	0.970	15.010		31	0	0.13	31	1.31	1.05	2.41	59	0
Feb '11	0.503	0.712	14.086		26	0	0.16	28	1.19	0.94	1.53	56	0
Mar '11	0.517	0.887	16.034		31	0	0.10	31	1.25	0.88	1.67	66	0
Apr '11	0.592	0.927	17.755		30	0	0.09	30	1.40	1.10	8.50	58	0
May '11	0.343	1.104	10.644		31	0	0.12	31	1.22	0.95	1.66	66	0
Jun '11	0.719	1.618	21.555		30	0	0.08	30	1.31	1.04	1.57	57	0
Jul '11	1.478	2.130	45.824		31	0	0.08	31	1.29	0.77	1.84	58	0
Aug '11	1.298	2.059	40.247		30	0	0.08	31	1.37	0.93	2.01	66	0
Sep '11	0.826	1.436	24.773		30	0	0.08	30	1.27	1.08	1.66	58	0
Oct '11	0.582	1.042	18.028		12	0	0.08	31	1.31	0.83	1.59	59	0
Nov '11	0.566	0.830	16.974		4	0	0.19	30	1.35	1.12	1.59	65	0
Dec '11	0.460	0.895	14.269		1	0	0.13	31	1.29	1.02	2.07	59	0
Total			255.199		287	0		365				727	0
Average	0.699						0.10		1.30				
Maximum		2.130											

Disinfectant Compound Used Sodium Hypochlorite
 (EG. Chlorine Gas, NaOCl, etc.)

Form of Residual Displayed on above table: Free
 (EG. Free, Combined, or Total)

Quantity of Disinfectant used during the year (kg): 633.83

Distribution system target residual (mg/L) > 0.20

Maximum Taken per Day (m3) 2,130

Lakeshore Drinking Water System
 Chemical Usage
 2011
 Point Clark

Month	Sodium Silicate		Sodium Hypochlorite	
	Usage kg.	Dosage mg/L	Usage Kg.	Dosage mg/L
Jan '11	147.76	9.84	34.22	2.28
Feb '11	126.85	9.01	30.36	2.16
Mar '11	136.61	8.52	35.19	2.19
Apr '11	144.98	8.17	43.19	2.43
May '11	151.95	14.28	25.67	2.41
Jun '11	471.17	21.86	64.86	3.01
Jul '11	674.70	14.72	106.54	2.32
Aug '11	511.60	12.71	102.12	2.54
Sep '11	312.26	12.60	63.89	2.58
Oct '11	196.55	10.90	47.06	2.61
Nov '11	156.13	9.20	44.99	2.65
Dec '11	126.85	8.89	35.74	2.50
Total	3,157.41	12.37	633.83	2.48

Notes:

- 1) The sodium hypochlorite is used as a source of chlorine
- 2) The sodium silicate is used as a treatment for iron.

All quantities of chemicals are listed as the available chemical in the solutions and not the total physical quantities.