

Water Works Name: Ripley Well Supply  
 Well No. (if applicable): Well 1  
 Year: 2008  
 Serviced Population  
 Laboratories Which Performed Analyses: SGS Lakefield Research  
 Water Works Number: 220002636

**Raw Water**

Month	Total Coliform			Fecal Coliform / Escherichia Coli		
	No. of Samples Collected	No. of Samples 1	No. of Samples >1	No. of Samples Collected	No. of Samples 1	No. of Samples >1
Jan '08	5	5	0	5	5	0
Feb '08	4	4	0	4	4	0
Mar '08	4	4	0	4	4	0
Apr '08	5	5	0	5	5	0
May '08	4	4	0	4	4	0
Jun '08	4	4	0	4	4	0
Jul '08	5	5	0	5	5	0
Aug '08	4	4	0	4	4	0
Sep '08	5	5	0	5	5	0
Oct '08	4	4	0	4	4	0
Nov '08	4	4	0	4	4	0
Dec '08	5	5	0	5	5	0
Total	53	53	0	53	53	0

Water Works Name: Ripley Well Supply  
 Well No. (if applicable): Well 2  
 Year: 2008

Serviced Population  
 Laboratories Which Performed Analyses: SGS Lakefield Research  
 Water Works Number 220002636

**Raw Water**

Month	Total Coliform			Fecal Coliform / Escherichia Coli		
	No. of Samples Collected	No. of Samples 1	No. of Samples >1	No. of Samples Collected	No. of Samples 1	No. of Samples >1
Jan '08	5	5	0	5	5	0
Feb '08	4	4	0	4	4	0
Mar '08	4	4	0	4	4	0
Apr '08	5	5	0	5	5	0
May '08	4	4	0	4	4	0
Jun '08	4	4	0	4	4	0
Jul '08	5	5	0	5	5	0
Aug '08	4	4	0	4	4	0
Sep '08	5	5	0	5	5	0
Oct '08	4	4	0	4	4	0
Nov '08	4	4	0	4	4	0
Dec '08	5	5	0	5	5	0
Total	53	53	0	53	53	0

Ripley Well Supply  
 Chemical Usage  
 2008

Month	Sodium Hypochlorite	
	Usage kg.	Dosage mg/L
Jan '08	21.11	2.57
Feb '08	19.32	2.59
Mar '08	22.91	2.68
Apr '08	20.98	2.59
May '08	22.77	2.70
Jun '08	23.46	2.70
Jul '08	26.22	2.83
Aug '08	24.56	2.56
Sep '08	26.77	3.25
Oct '08	21.94	2.79
Nov '08	19.18	2.53
Dec '08	21.11	2.58
Total	270.34	2.70

Notes:

1) The sodium hypochlorite is used the disinfectant.

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

Water Works Name:

Ripley Well Supply

Year:

2008

Serviced Population:

SGS Lakefield Research

Laboratories which Performed Analyses:

**Distribution System**

Month	Total Coliform			Fecal Coliform / Escherichia Coll			HPC or MF			BKG		
	No. of Samples Collected	No. of Samples "Unsafe"	No. of Samples "Deteriorating"	No. of Samples Collected	No. of Samples "Unsafe"	No. of Samples "Deteriorating"	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 '08	10	0	0	10	0	0	5	5	0			
Feb '08	8	0	0	8	0	0	4	4	0			
Mar '08	16	0	0	16	0	0	13	13	0			
Apr '08	10	0	0	10	0	0	10	10	0			
May '08	8	0	0	8	0	0	8	8	0			
Jun '08	8	0	0	8	0	0	4	4	0			
Jul '08	10	0	0	10	0	0	5	5	0			
Aug '08	12	0	0	12	0	0	7	7	0			
Sep '08	10	0	0	10	0	0	5	5	0			
Oct '08	8	0	0	8	0	0	4	4	0			
Nov '08	8	0	0	8	0	0	6	6	0			
Dec '08	10	0	0	10	0	0	6	6	0			
Total	118	0	0	118	0	0	77	77	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.

**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.

Water Works Name: **Ripley Well Supply**  
 Well No. (if applicable): **N/A**  
 Year: **2008**  
 Serviced Population  
 Laboratories Which Performed Analyses: **Veolia Water Canada**  
 Water Works Number **220002636**

Month	Treated Water Flow		Process Wastewater Monthly Total (1000 m3)	Treated Water Turbidity		Treated Disinfectant		Trending Treated Disinfectant		Dist. System Disinfectant		
	Average Daily (1000 m3)	Maximum Daily (1000 m3)		No. of Samples Collected	Average Turbidity NTU	No. of Samples Collected	Average Residual (mg/L)	Average Online Residual (mg/L)	Minimum Online Residual (mg/L)	Maximum Online Residual (mg/L)	No. of Dist. Samp. Collected	No. of Samples < 0.05
Jan '08	0.265	0.389	8.221	0	0.131	52	1.58	1.59	1.42	2.18	31	0
Feb '08	0.257	0.379	7.454	0	0.137	48	1.63	1.64	1.38	1.99	29	0
Mar '08	0.276	0.490	8.553	0	0.122	50	1.65	1.67	1.42	2.83	31	0
Apr '08	0.270	0.448	8.098	0	0.131	46	1.69	1.72	1.45	2.34	30	0
May '08	0.272	0.442	8.433	0	0.119	51	1.55	1.59	1.40	1.81	25	0
Jun '08	0.289	0.408	8.678	0	0.112	47	1.38	1.39	0.25	1.66	30	0
Jul '08	0.299	0.399	9.256	0	0.122	46	1.46	1.5	1.25	1.86	21	0
Aug '08	0.309	0.411	9.583	0	0.117	38	1.28	1.28	1.20	1.51	31	0
Sep '08	0.275	0.460	8.249	2	0.195	44	1.30	1.28	1.20	1.88	30	0
Oct '08	0.254	0.387	7.858	0	0.124	44	1.38	1.39	1.20	5.04	31	0
Nov '08	0.253	0.355	7.578	0	0.124	44	1.51	1.53	1.28	1.98	30	0
Dec '08	0.264	0.381	8.172	0	0.109	53	1.57	1.57	1.25	2.02	31	0
Total			100.143	2		563					350	0
Average	0.274						1.58					
Maximum		0.490										

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): **775.15**  
 Distribution system target residual (mg/L) **> 0.20**  
 Maximum daily flow 864 cubic meters (m3).

Total Petroleum Hydrocarbons- Ripley

Analysis	Analysis Approval Date	Analysis Approval Time	Table 2 Potable Ground Water	MDL	DW Town Office
Sample Date & Time					29-Jul-08 10:15
Temperature Upon Receipt					12
Free Chlorine (mg/L)					1.43
F1 (C6-C10)-Water (ug/L)	08/08/2008	11:44	1000	100	<100
F2 (C10-C16)-Water (ug/L)	12/08/2008	7:19	1000	100	<100

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

Water Works Name: Ripley Well Supply

Well No. (if applicable):

Year: 2008

Serviced Population: 680

Laboratories Which Performer Analyses: SGS Lakefield Research

Water Works #: 220002636

Parameter	Analysis		Maximum Allowable Level (ug/L)	Analysis Result mg/l	Maximum Allowable Level mg/l
	Date (MM/DD/YY)	Result (ug/L)			
<b>Schedule 23 &amp; 24</b>					
Antimony	06/06/2006	<0.2	6		
Arsenic	23/12/2008	4.5	25		
Barium	06/06/2006	65.9	1000		
Boron	"	108	5000		
Cadmium	"	<0.06	5		
Chromium	"	1.2	50		
Mercury	"	<0.02	1		
Sodium	"				
Lead	05/02/2008	0.05	10	27.8	20
Fluoride	10/09/2007	2.13	1.5	28.2	
Selenium	23/12/2008	<1	10		
Uranium	06/06/2006	4.02	20		
Benzene	"	<0.37	5		
Carbon Tetrachloride	"	<0.26	5		
1,2-Dichlorobenzene	"	<0.50	200		
1,4-Dichlorobenzene	"	<0.20	5		
1,1-Dichloroethylene	"	<0.41	14		
1,2-Dichloroethane	"	<0.43	5		
Dichloromethane	"	<0.32	50		
Monochlorobenzene	"	<0.58	80		
Tetrachloroethylene	"	<0.45	30		
Trichloroethylene	"	<0.38	50		
Vinyl Chloride	"	<0.14	2		
Diquat	"	<1	70		
Paraquat	"	<1	10		
Glyphosate	"	<6	280		
Polychlorinated Biphenyls	"	<0.04	3		
Benzo(a)pyrene	"	<0.004	0.01		

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

2,4-dichlorophenol	"	<0.15	900
2,4,6-trichlorophenol	"	<0.25	5
2,3,4,5-tetrachlorophenol	"	<0.14	100
Pentachlorophenol	"	<0.15	60
Alachlor	"	<0.11	5
Aldicarb	"	<0.30	9
Aldrin+Dieldrin	"	<0.067	0.7
Aldrin	"	<0.060	
Dieldrin	"	<0.067	
Atrazine+N-dealkylated metabolites	"	<0.12	5
Atrazine	"	<0.11	
De-ethylated atrazine	"	<0.12	
Azinphos-methyl	"	<0.21	20
Bendiocarb	"	<0.13	40
Carbaryl	"	<0.16	90
Carbofuran	"	<0.37	90
Chlordane	"	<0.11	7
a-chlordane	"	<0.069	
g-chlordane	"	<0.063	
Oxychlordane	"	<0.11	
Chlorpyrifos	"	<0.18	90
Cyanazine	"	<0.18	10
Diazinon	"	<0.081	20
(DDT)+Metabolites	"	<0.14	30
op-DDT	"	<0.095	
pp-DDD	"	<0.098	
pp-DDE	"	<0.075	
pp-DDT	"	<0.14	
Dimethoate	"	<0.12	20
Diuron	"	<0.087	150
Heptachlor-Heptachlor Epoxide	"	<0.11	3
Heptachlor	"	<0.061	
Heptachlor epoxide	"	<0.11	
Lindane	"	<0.056	4
Malathion	"	<0.091	190
Methoxychlor	"	<0.14	900
Metolachlor	"	<0.092	50
Metribuzin	"	<0.12	80

Annual Data Summary - Treated Water Volatile Organic and Inorganic Data  
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Parathion	"	<0.18	50
Phorate	"	<0.11	2
Prometryne	"	<0.23	1
Simazine	"	<0.15	10
Temephos	"	<0.31	280
Terbufos	"	<0.12	1
Triallate	"	<0.10	230
Trifluralin	"	<0.12	45
2,4-dichlorophenoxyacetic acid	"	<0.19	100
2,4,5-trichlorophenoxyacetic acid	"	<0.14	280
Bromoxynil	"	<0.094	5
Dicamba	"	<0.17	120
Diclofop-methyl	"	<0.13	9
Dinoseb	"	<0.084	10
Picloram	"	<0.20	190

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

Water Works Name: Ripley Well Supply  
 Well No. (if applicable): 2008  
 Year: 680  
 Serviced Population  
 Laboratories Which Performed Analyses: SGS Lakeland Research  
 Water Works 220002636

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 Samples Collected	Average Nitrate (mg/L)	Maximum Nitrate mg/L	No of Samples	Result ug/l
Jan.	1	1.5	1.5								
Feb.	1	1.96	1.96	1	<0.005	<0.005	1	<0.013	<0.013	1	6.7
Mar.											
Apr.	1	1.86	1.86								
May	1	2.17	2.17	1	<0.005	<0.005	1	0.056	0.056	1	4.7
June											
July	1	1.74	1.74								
August				1	<0.005	<0.005	1	0.059	0.059	1	3.9
Sept											
Oct.	1	2.04	2.04								
Nov				1	<0.005	<0.005	1	0.064	0.064	1	4.6
Dec											
Total	6			4			4				
Average					#DIV/0!						
Maximum			2.17				0				
ODWQS									0.064		

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

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Month	Total Coliform			Fecal Coliform / Escherichia Coli			HPC or MF			BKG		
	No. of Samples Collected	No. of Samples "Safe"	No. of Samples "Deteriorating"	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 '08	5	5	0	5	5	0	5	5	0	0	0	0
Feb '08	4	4	0	4	4	0	4	4	0	0	0	0
Mar '08	4	4	0	4	4	0	4	4	0	0	0	0
Apr '08	5	5	0	5	5	0	5	5	0	0	0	0
May '08	4	4	0	4	4	0	4	4	0	0	0	0
Jun '08	4	4	0	4	4	0	4	4	0	0	0	0
Jul '08	5	5	0	5	5	0	5	5	0	0	0	0
Aug '08	4	4	0	4	4	0	4	4	0	0	0	0
Sep '08	5	5	0	5	5	0	5	5	0	0	0	0
Oct '08	4	4	0	4	4	0	4	4	0	0	0	0
Nov '08	4	4	0	4	4	0	4	4	0	0	0	0
Dec '08	5	5	0	5	5	0	5	5	0	0	0	0
Total	53	53	0	53	52	1	53	53	0	0	0	0

INDICATORS OF UNSAFE DRINKING WATER QUALITY:

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

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

INDICATORS OF DETERIORATING DRINKING WATER QUALITY

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

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