

EGANVILLE DRINKING WATER SYSTEM - MICROBIOLOGICAL ANALYSIS										
	RAW WATER			TREATED WATER			DISTRIBUTION SYSTEM			
		TOTAL COLIFORMS (TC)	ESCHERICHIA COLI (EC)	TOTAL COLIFORMS (TC)	ESCHERICHIA COLI (EC)	HETEROPHIC PLATE COUNT (HPC)		TOTAL COLIFORMS (TC)	ESCHERICHIA COLI (EC)	HETEROPHIC PLATE COUNT (HPC)
MONTH	NUMBER OF SAMPLES COLLECTED	RANGE OF RESULTS CFU/100 ml*	RANGE OF RESULTS CFU/100 ml	RANGE OF RESULTS CFU/100 ml	RANGE OF RESULTS CFU/100 ml	RANGE OF RESULTS Colonies /1 ml	NUMBER OF SAMPLES COLLECTED	RANGE OF RESULTS CFU/100 ml	RANGE OF RESULTS CFU/100 ml	RANGE OF RESULTS Colonies /1 ml
JANUARY	4	4 -- 28	1 -- 7	0	0	2--2	12	0 -- 0	0 -- 0	2 -- 2
FEBRUARY	4	16 -- 70	0 -- 3	0	0	2--2	12	0 -- 0	0 -- 0	2 -- 2
MARCH	5	28 -- 50	1 -- 6	0	0	2--2	15	0 -- 0	0 -- 0	2 -- 2
APRIL	4	40 -- 170	3 -- 10	0	0	2--2	12	0 -- 0	0 -- 0	2 -- 2
MAY	5	36 -- 320	9 -- 38	0	0	2--2	15	0 -- 0	0 -- 0	2 -- 2
JUNE	4	38 -- 62	15 -- 35	0	0	2--2	12	0 -- 0	0 -- 0	2 -- 2
JULY	4	36 -- 60	9 -- 36	0	0	2--2	16	0 -- 0	0 -- 0	2 -- 2
AUGUST	5	20 -- 90	12 -- 81	0	0	2--2	20	0 -- 0	0 -- 0	2 -- 2
SEPTEMBER	4	40 -- 260	26 -- 72	0	0	2--2	12	0 -- 0	0 -- 0	2 -- 2
OCTOBER	4	5 -- 90	5 -- 12	0	0	2--2	12	0 -- 0	0 -- 0	2 -- 2
NOVEMBER	5	20 -- 190	0 -- 6	0	0	2--2	15	0 -- 0	0 -- 0	2 -- 2
DECEMBER	4	39 -- 150	1 -- 8	0	0	2--2	12	0 -- 0	0 -- 0	2 -- 2
TOTAL	52						165			
ODWQS*				0	0	500		0	0	500

*CFU/100ml is Colony Forming Units per 100 millilitres

*ODWQS - ONTARIO DRINKING WATER QUALITY STANDARD, ONT. REG. 169/03

EGANVILLE DRINKING WATER SYSTEM										
	TREATED WATER FLOW			PROCESS WASTE WATER	TREATED WATER DISINFECTION			DISTRIBUTION SYSTEM DISINFECTION		
MONTH	AVERAGE DAY m ³	MAXIMUM DAY m ³	MONTHLY TOTAL m ³	MONTHLY TOTAL m ³	NUMBER OF SAMPLES COLLECTED	RANGE OF TOTAL CHLORINE RESIDUAL (mg/l)	RANGE OF FREE CHLORINE RESIDUAL (mg/l)	NUMBER OF SAMPLES COLLECTED	RANGE OF TOTAL CHLORINE RESIDUAL (mg/l)	RANGE OF FREE CHLORINE RESIDUAL (mg/l)
JANUARY	593	582	15295	4841	8760	1.70 -- 2.55	1.61 -- 2.56	43	0.88 -- 2.20	0.51 -- 2.03
FEBRUARY	530	612	14847	3978	8760	2.13 -- 2.42	1.81 -- 2.38	40	0.97 -- 2.20	0.83 -- 2.01
MARCH	537	617	16636	3873	8760	1.86 -- 2.24	1.59 -- 2.14	46	1.01 -- 2.13	0.82 -- 1.64
APRIL	508	640	15240	3492	8760	1.71 -- 2.10	1.51 -- 1.85	42	0.49 -- 1.86	0.37 -- 1.56
MAY	567	752	17579	3819	8760	1.38 -- 2.10	1.60 -- 1.97	46	0.54 -- 1.82	0.43 -- 1.64
JUNE	608	794	18253	3627	8760	1.98 -- 2.66	1.55 -- 2.53	46	0.63 -- 2.20	0.50 -- 2.05
JULY	650	796	20152	5360	8760	1.95 -- 2.40	1.60 -- 2.43	47	0.52 -- 1.74	0.40 -- 1.53
AUGUST	604	694	18734	4139	8760	2.07 -- 2.51	1.47 -- 2.51	51	0.50 -- 2.18	0.37 -- 1.88
SEPTEMBER	660	760	19794	3727	8760	2.08 -- 2.95	1.57 -- 2.67	42	0.52 -- 2.20	0.39 -- 1.92
OCTOBER	691	966	21433	5529	8760	1.85 -- 2.38	1.51 -- 2.18	43	0.79 -- 1.93	0.64 -- 1.34
NOVEMBER	644	920	19318	4119	8760	2.18 -- 2.51	1.82 -- 2.84	45	0.93 -- 2.20	0.78 -- 2.04
DECEMBER	466	539	14461	3608	8760	2.15 -- 2.25	1.86 -- 2.28	43	0.78 -- 2.20	0.64 -- 2.00
TOTAL			211742	50112	105120			534		
AVERAGE	588	723	17645	4176						
MIN - MAX						1.38-2.95	1.47-2.84		0.49-2.20	0.37-2.05
ODWQS*							0.05 - 4.0			0.05 - 4.0

EGANVILLE DRINKING WATER SYSTEM										
TREATED WATER - SCHEDULE 23 - INORGANIC PARAMETERS				DISTRIBUTION SYSTEM - HALOACETIC ACIDS (HAA's)						
SAMPLE DATE:	Jan.18,2022			SAMPLE DATE:	Jan.18,2022	Apr.19,2022	Jul.19,2022	Oct.18,2022		
PARAMETER	RESULT mg/l	ODWQS* mg/l		PARAMETER	RESULT ug/l	RESULT ug/l	RESULT ug/l	RESULT ug/l		
Antimony	<0.0001	0.006		Chloroacetic Acid	4.7	4.7	4.7	4.7		
Arsenic	<0.0001	0.01		Bromoacetic Acid	2.9	2.9	2.9	2.9		
Barium	0.026	1		Dichloroacetic Acid	19.8	23.7	43.7	20.9		
Boron	0.005	5		Dibromoacetic Acid	2	2	2	2		
Cadmium	<0.000015	0.005		Trichloroacetic Acid	30.1	48.1	51.7	30		
Chromium	<0.002	0.05		Total Haloacetic Acid	49.9	71.7	95.4	51		
Mercury	<0.00002	0.001								
Selenium	<0.001	0.05								
Uranium	<0.00005	0.02		Running Annual Average (RAA)	63.7	68.4	69.3	67		
				ODWQS* RAA 80 ug/l						
DISTRIBUTION SYSTEM - TRIHALOMETHANE (THM's)					TREATED WATER - CHEMICAL ANALYSIS					
SAMPLE DATE	Jan.18,2022	Apr.19,2022	Jul.19,2022	Oct.18,2022		Jan.18,2022	Apr.19,2022	Jul.19,2022	Oct.18,2022	
PARAMETER	RESULT ug/l	RESULT ug/l	RESULT ug/l	RESULT ug/l	PARAMETER	RESULT mg/l	RESULT mg/l	RESULT mg/l	RESULT mg/l	ODWQS* mg/l
Chloroform	55	55	127	48	Nitrate	<0.01	<0.01	<0.01	<0.01	10.0
Bromodichloromethane	3	2	4	2	Nitrite	<0.01	<0.01	<0.01	<0.01	1.0
Dibromochloromethane	2	2	2	2						
Bromoform	5	5	5	5	Flouride	<0.01				1.5
Total Trihalomethane	58	55	130	48	Sodium	8.8				200.0
Running Annual Average (RAA)	72.3	67.8	79.8	72.8						
ODWQS* RAA 100 ug/l										

EGANVILLE DRINKING WATER SYSTEM - TREATED WATER - SCHEDULE 24 - ORGANIC PARAMETERS							
SAMPLE DATE:	Jan.18,2022	RESULT	ODWQS			RESULT	ODWQS
PARAMETER		ug/l	ug/l		PARAMETER	ug/l	ug/l
Alachlor		<0.3	5		Diquat	<5	70
Atrazine + N-dealkylated metabolites		<0.5	5		Diuron	<5	150
Azinphos-methyl		<1	20		Glyphosate	<25	280
Benzene		<0.5	1		Malathion	<5	190
Benzo(a)pyrene		<0.006	0.01		2-Methyl-4-chlorophenoxyacetic acid (MCPA)	<0.10	100
Bromoxynil		<0.5	5		Metolachlor	<3	50
Carbaryl		<3	90		Metribuzin	<3	80
Carbofuran		<1	90		Monochlorobenzene	<0.5	80
Carbon Tetrachloride		<0.2	2		Paraquat	<1	10
Chlorpyrifos		<0.5	90		Pentachlorophenol	<0.2	60
Diazinon		<1	20		Phorate	<0.3	2
Dicamba		<1	120		Picloram	<5	190
1,2-Dichlorobenzene		<0.5	200		Polychlorinated Biphenyls (PCB)	<0.05	3
1,4-Dichlorobenzene		<0.5	5		Prometryne	<0.1	1
1,2-Dichloroethane		<0.5	5		Simazine	<0.5	10
1,1-Dichloroethylene (vinylidene chloride)		<0.5	14		Terbufos	<0.5	1
Dichloromethane		<0.5	50		Tetrachloroethylene (perchloroethylene)	<0.5	10
2,4-Dichlorophenol		<0.2	900		2,3,4,6-Tetrachlorophenol	<0.2	100
2,4-Dichlorophenoxy acetic acid (2,4-D)		<1	100		Triallate	<10	230
Diclofop-methyl		<0.9	9		Trichloroethylene	<0.5	5
Dimethoate		<1	20		2,4,6-Trichlorophenol	<0.2	5
					Trifluralin	<0.5	45
					Vinyl Chloride	<0.2	1

EGANVILLE DRINKING WATER SYSTEM - OPERATIONAL DATA - MONTHLY AVERAGES										
MONTH	pH		ALKALINITY		COLOUR		TEMPERATURE			
	RAW	TREATED	mg/l CaCo ₃		TCU		C ^o			
	RAW	TREATED	RAW	TREATED	RAW	TREATED	RAW	TREATED		
JANUARY	7.20	7.01	40	33	18	1	1.6	3.1		
FEBRUARY	7.07	6.92	40	32	18	1	1.2	2.7		
MARCH	7.55	7.28	45	37	21	1	2.1	3.6		
APRIL	7.39	7.25	43	35	21	1	6.6	8.0		
MAY	7.61	7.26	43	34	22	1	16.3	16.2		
JUNE	7.72	7.4	47	38	23	1	21.1	20.8		
JULY	8.00	7.40	47	39	22	1	23.1	23.1		
AUGUST	8.02	7.31	43	34	20	1	22.9	23.1		
SEPTEMBER	7.87	7.21	41	32	17	1	19.8	20.0		
OCTOBER	7.73	7.18	43	33	17	1	14.1	14.4		
NOVEMBER	7.75	7.20	39	30	16	1	7.2	10.1		
DECEMBER	7.73	7.18	42	32	13	1	3.0	1.1		
AVERAGE	7.64	7.22	43	34	19	1	11.6	12.2		

EGANVILLE DRINKING WATER SYSTEM - OPERATIONAL DATA - PROCESS CHEMICAL USAGE							
MONTH	RAW WATER FLOW m ³	SODIUM HYPOCHORITE		PAS-8		POLYMER	
		Kg Used	Dosage mg/l	Kg Used	Dosage mg/l	Kg Used	Dosage mg/l
JANUARY	20136	93.46	4.64	835	41.47	2.42	0.12
FEBRUARY	18825	87.66	4.66	819	43.51	2.28	0.12
MARCH	20717	88.28	4.26	831	40.11	2.34	0.11
APRIL	18732	84.70	4.52	804	42.92	2.25	0.12
MAY	21398	128.48	6.00	901	42.11	2.57	0.12
JUNE	21880	176.40	8.06	905	41.36	2.63	0.12
JULY	25513	202.40	7.93	1004	39.35	3.06	0.12
AUGUST	22873	190.06	8.31	1007	44.03	2.74	0.12
SEPTEMBER	23521	191.64	8.15	1117	47.49	2.82	0.12
OCTOBER	26962	118.74	4.40	1297	48.10	3.24	0.12
NOVEMBER	23437	117.88	5.03	1097	46.81	2.80	0.12
DECEMBER	18069	89.23	4.94	864	47.82	2.17	0.12
TOTAL	262063	1568.93		11481		31.32	
AVERAGE	21839	130.74	5.91	957	43.76	2.61	0.12

EGANVILLE DRINKING WATER SYSTEM - OPERATIONAL DATA - TURBIDITY																
MONTH	RANGE OF WEEKLY GRAB SAMPLES (NTU)				RANGE OF TURBIDITY FROM CONTINUOUS RECORDING METERS (NTU)											
	RAW		TREATED		Filter 1A		Filter 1B		Filter 2A		Filter 2B		GAC Filter 1		GAC Filter 2	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
JANUARY	0.36	0.46	0.05	0.07	0.035	0.277	0.005	0.270	0.003	0.110	0.005	0.288	0.004	0.174	0.014	0.202
FEBRUARY	0.28	0.38	0.06	0.09	0.006	0.282	0.004	0.278	0.003	0.083	0.001	0.277	0.004	0.158	0.011	0.188
MARCH	0.33	0.59	0.06	0.07	0.006	0.282	0.005	0.034	0.003	0.005	0.001	0.276	0.024	0.200	0.120	0.234
APRIL	0.36	0.84	0.06	0.08	0.010	0.069	0.005	0.298	0.000	0.012	0.001	0.027	0.012	0.156	0.021	0.173
MAY	0.36	0.84	0.06	0.08	0.006	0.098	0.005	0.258	0.000	0.062	0.001	0.086	0.012	0.154	0.003	0.151
JUNE	0.76	1.05	0.09	0.10	0.058	0.264	0.006	0.140	0.032	0.069	0.023	0.286	0.007	0.187	0.003	0.296
JULY	0.88	1.02	0.08	0.10	0.006	0.187	0.006	0.050	0.013	0.148	0.012	0.160	0.004	0.240	0.003	0.271
AUGUST	0.54	1.07	0.07	0.11	0.006	0.062	0.006	0.040	0.010	0.131	0.020	0.135	0.004	0.185	0.003	0.138
SEPTEMBER	0.39	0.60	0.07	0.09	0.006	0.115	0.005	0.061	0.000	0.268	0.001	0.040	0.007	0.226	0.003	0.191
OCTOBER	0.37	0.72	0.05	0.07	0.021	0.287	0.005	0.290	0.000	0.065	0.001	0.050	0.013	0.111	0.003	0.127
NOVEMBER	0.41	0.73	0.06	0.08	0.010	0.264	0.004	0.089	0.000	0.108	0.001	0.043	0.011	0.146	0.016	0.147
DECEMBER	0.41	0.80	0.05	0.07	0.006	0.286	0.004	0.017	0.000	0.021	0.001	0.035	0.023	0.128	0.058	0.191
Yearly Min / Max	0.28	1.07	0.05	0.11	0.006	0.287	0.004	0.298	0.000	0.268	0.001	0.288	0.004	0.240	0.003	0.296