TOWNSHIP OF BONNECHERE VALLEY **EGANVILLE SEWAGE TREATMENT PLANT** **YEAR 2016**

WATER AND SEWAGE DEPARTMENT **MONITORING SUMMARY REPORT**

MONTH	FLOWS			BIOCHEMICAL OXYGEN DEMAND				TOTAL SUSPENDED SOLIDS			
	TOTAL X1000m3	AVG.DAY X1000m3	MAX DAY X1000m3	BOD_5 INF 24HR COMP mg/L	* $CBOD_5$ EFF 24HR COMP mg/L	PERCENT REMOVAL %	EFF LOADING kg/day	INF 24HR COMP mg/L	EFF 24HR COMP mg/L	PERCENT %	EFF LOADING kg/day
JAN.	15.519	0.501	0.786	96	3.0	96.88	1.50	121	9	92.56	5
FEB.	14.259	0.492	0.605	142	3.0	97.89	1.48	126	7	94.44	3
MAR.	31.059	1.002	2.361	98	3.0	96.94	3.01	104	5	95.19	5
APR.	35.413	1.180	1.777	46	4.0	91.30	4.72	73	5	93.84	5
MAY	21.921	0.707	0.885	158	3.0	98.10	2.12	128	6	95.31	4
JUN.	15.126	0.504	0.679	57	3.0	94.74	1.51	143	7	95.45	3
JUL.	14.408	0.465	0.639	249	3.0	98.80	1.40	181	6	96.96	3
AUG.	15.976	0.515	1.271	174	3.0	98.28	1.55	142	7	95.42	3
SEP.	12.501	0.417	0.466	93	3.0	96.77	1.25	167	7	95.81	3
OCT.	12.375	0.399	0.479	124	3.0	97.58	1.20	149	5	96.98	2
NOV.	12.901	0.430	0.843	105	3.0	97.14	1.29	166	5	96.99	2
DEC.	16.895	0.545	0.827	109	3.0	97.25	1.64	92	6	94.02	3
TOTAL	218.353										
AVERAGE	18.196	0.596	0.968	121	3.1	96.81	1.89	133	6.0	95.25	3.46
MAX	35.413	1.180	2.361	249	4.0	98.80	4.72	181	9	96.99	5.31
LIMITS		**1.080**	**2.700**		**25**		**27**		**25**		**27**
OBJECTIVES					**15**		**16.2**		**15**		**16.2**

* $CBOD_5$ - all sample analysis reported as <3 mg/L (MDL is 3 mg/L)

"Annual Average Concentration" $CBOD_5$ is 3.1 mg/L , Total Suspended Solids is 6 mg/L

"Annual Average Loading" $CBOD_5$ is 1847 kg, Total Suspended Solids is 3576 kg and Total Phosphorus is 89 kg

"Average Day Flow" is 596.59 m^3

TOWNSHIP OF BONNECHERE VALLEY **EGANVILLE SEWAGE TREATMENT PLANT** **YEAR 2016**

WATER AND SEWAGE DEPARTMENT **MONITORING SUMMARY REPORT**

MONTH	TOTAL PHOSPHORUS				TKN				TOTAL AMMONIA NITROGEN	pH		
	INF 24HR COMP mg/L	EFF 24HR COMP mg/L	PERCENT REMOVAL %	EFF LOADING kg/day	INF 24HR COMP mg/L	EFF 24HR COMP mg/L	PERCENT REMOVAL %	EFF LOADING kg/day	EFF 24HR COMP mg/L	AVG INF	MIN EFF	MAX EFF
JAN.	4.20	0.12	97.14	0.06	27.3	1.16	95.75	0.58	0.06	8.35	6.79	7.27
FEB.	3.90	0.10	97.44	0.05	44.1	1.07	97.57	0.53	0.03	8.16	6.72	7.15
MAR.	3.10	0.10	96.77	0.10	23.1	0.93	95.97	0.93	0.14	8.00	6.61	7.24
APR.	2.80	0.10	96.43	0.12	21.2	1.40	93.40	1.65	0.20	7.93	7.11	7.55
MAY	3.30	0.24	92.73	0.17	29.5	1.26	95.73	0.89	0.01	8.19	6.96	7.62
JUN.	4.60	0.22	95.22	0.11	39.5	0.98	97.52	0.49	0.16	7.94	6.70	7.09
JUL.	4.30	0.23	94.65	0.11	39.9	0.99	97.52	0.46	0.10	7.73	6.60	6.92
AUG.	4.90	0.22	95.51	0.11	42.4	0.87	97.95	0.45	0.05	8.04	6.59	7.71
SEP.	5.30	0.24	95.47	0.10	42.2	0.97	97.70	0.40	0.05	8.02	6.76	7.67
OCT.	5.60	0.10	98.21	0.04	55.8	1.11	98.01	0.44	0.05	8.08	6.69	7.01
NOV.	4.30	0.05	98.84	0.02	45.8	0.83	98.19	0.36	0.06	8.12	6.60	6.99
DEC.	4.00	0.05	98.75	0.03	47.2	0.95	97.99	0.52	0.30	8.02	6.76	7.28
AVERAGE	4.19	0.15	96.43	0.08	38.17	1.04	96.94	0.64	0.10	8.05	6.74	7.29
MAX	5.60	0.24	98.84	0.17	55.80	1.40	98.19	1.65	0.30	8.35		7.71
MIN											6.59	
LIMITS		**1.00**		**1.10**					**5.00**		**≥6.0**	**≤8.5**
OBJECTIVES		**1.00**		**1.10**					**5.00**		**≥6.5**	**≤8.5**

"Monthly Average Concentration" of Total Phosphorus

TOWNSHIP OF BONNECHERE VALLEY **EGANVILLE SEWAGE TREATMENT PLANT** **YEAR 2016**

WATER AND SEWAGE DEPARTMENT **MONITORING SUMMARY REPORT**

MONTH	Total Flow	Sodium Hypochorite			E. coli	Pre Hydr Alum Sulphate		Sodium Bisulphite		Number of By-passes
	X1000m3	Kg Used	Dosage mg/l	Effluent Residual mg/l	Counts per 100ml	Kg Used	Dosage mg/l	Kg Used	Dosage mg/l	
JAN.	15.519	73.60	4.74	0.0	2	1279.90	82.47	58.14	3.75	0
FEB.	14.259	70.70	4.96	0.0	2	1051.10	73.71	49.02	3.44	0
MAR.	31.059	110.16	3.55	0.0	2	2049.20	65.98	95.00	3.06	0
APR.	35.413	108.70	3.07	0.0	4	886.16	25.02	66.12	1.87	0
MAY	21.921	89.76	4.09	0.0	24	1094.30	49.92	55.48	2.53	0
JUN.	15.126	79.08	5.23	0.0	2	1341.73	88.70	41.42	2.74	0
JUL.	14.408	95.60	6.64	0.0	8	1352.00	93.84	43.32	3.01	0
AUG.	15.976	99.84	6.25	0.0	2	1149.90	71.98	41.42	2.59	0
SEP.	12.501	76.32	6.11	0.0	2	881.78	70.54	28.88	2.31	0
OCT.	12.375	71.52	5.78	0.0	5	970.52	78.43	25.48	2.06	0
NOV.	12.901	71.40	5.53	0.0	2	902.41	69.95	33.06	2.56	0
DEC.	16.895	75.48	4.47	0.0	2	1171.80	69.36	53.96	3.19	0
TOTAL	218.353	1022.16				14130.80		591.30		
AVERAGE	18.196	85.18	5.03	0.0	5	1177.57	69.99	49.28	2.76	
MAX	35.413	110.16	6.64		24	2049.20	93.84	95.00	3.75	
LIMITS					**<200**					
OBJECTIVES					**<200**					

EGANVILLE SEWAGE TREATMENT PLANT
MONITORING SUMMARY REPORT

Date	Effluent Total Ammonia Nitrogen NH3-N		Effluent Unionized Ammonia NH3	Date	Effluent Total Ammonia Nitrogen NH3-N		Effluent Unionized Ammonia NH3	Date	Effluent Total Ammonia Nitrogen NH3-N		Effluent Unionized Ammonia NH3
	mg/l	kg/day	ug/l		mg/l	kg/day	ug/l		mg/l	kg/day	ug/l
Jan.4/16	0.03	0.02	0.240	Mar.1/16	0.14	0.14	0.110	May2/16	0.01	0.01	0.060
Jan.5/16	0.01	0.01	0.015	Mar.7/16	0.11	0.11	0.080	May9/16	0.01	0.01	0.065
Jan.11/16	0.01	0.01	0.010	Mar.14/16	0.01	0.01	0.020	May10/16	0.01	0.01	0.075
Jan.19/16	0.02	0.01	0.040	Mar.15/16	0.01	0.01	0.015	May16/16	0.01	0.01	0.060
Jan.25/16	0.01	0.01	0.020	Mar.21/16	0.40	0.40	0.920	May24/16	0.03	0.02	0.090
				Mar.29/16	0.50	0.50	0.110	May30/16	0.01	0.01	0.030
Feb.1/16	0.01	0.00	0.015	Apr.4/16	0.01	0.01	0.030	Jun.6/16	0.01	0.01	0.030
Feb.2/16	0.03	0.01	0.045	Apr.11/16	0.01	0.01	0.025	Jun.7/16	0.04	0.02	0.140
Feb.8/16	0.01	0.00	0.020	Apr.12/16	0.08	0.09	0.185	Jun.13/16	0.25	0.13	0.660
Feb.16/16	0.01	0.00	0.010	Apr.18/16	0.01	0.01	0.030	Jun.20/16	0.20	0.10	0.660
Feb.22/16	0.11	0.05	0.100	Apr.25/16	0.10	0.12	2.310	Jun.21/16	0.01	0.00	0.020
Feb.29/16	0.01	0.00	0.010	Apr.26/16	0.94	1.11	3.840	Jun.27/16	0.31	0.16	0.500
MAX.	0.11	0.05	0.24		0.94	1.11	3.84		0.31	0.16	0.66
LIMITS	**5.00**	**5.40**	**20**		**5.00**	**5.40**	**20**		**5.00**	**5.40**	**20**

"Daily Concentration" of Total Ammonia Nitrogen
"Daily Loading" of Total Ammonia Nitrogen

TOWNSHIP OF BONNECHERE VALLEY **EGANVILLE SEWAGE TREATMENT PLANT** **YEAR 2016**

WATER AND SEWAGE DEPARTMENT **MONITORING SUMMARY REPORT**

Date	Effluent Total Ammonia Nitrogen NH3-N		Effluent Unionized Ammonia NH3	Date	Effluent Total Ammonia Nitrogen NH3-N		Effluent Unionized Ammonia NH3	Date	Effluent Total Ammonia Nitrogen NH3-N		Effluent Unionized Ammonia NH3
	mg/l	kg/day	ug/l		mg/l	kg/day	ug/l		mg/l	kg/day	ug/l
July4/16	0.01	0.00	0.020	Sept.6/16	0.01	0.00	0.040	Nov.7/16	0.01	0.00	0.020
July5/16	0.01	0.00	0.020	Sept.12/16	0.01	0.00	0.100	Nov.8/16	0.01	0.00	0.010
July11/16	0.21	0.10	0.530	Sept.13/16	0.01	0.00	0.080	Nov.14/16	0.01	0.00	0.015
July18/16	0.16	0.07	0.440	Sept.19/16	0.16	0.07	1.010	Nov.21/16	0.01	0.00	0.010
July19/16	0.01	0.00	0.020	Sept.26/16	0.01	0.00	0.030	Nov.22/16	0.09	0.04	0.100
July25/16	0.01	0.00	0.020	Sept.27/16	0.01	0.00	0.020	Nov.28/16	0.20	0.09	0.240
Aug.2/16	0.01	0.01	0.015	Oct.3/16	0.01	0.00	0.035	Dec.5/16	0.01	0.01	0.025
Aug.8/16	0.16	0.08	0.230	Oct.11/16	0.01	0.00	0.020	Dec.6/16	0.01	0.01	0.030
Aug.16/16	0.01	0.01	0.080	Oct.17/16	0.11	0.04	0.180	Dec.12/16	0.30	0.16	0.785
Aug.22/16	0.01	0.01	0.210	Oct.24/16	0.11	0.04	0.130	Dec.13/16	0.01	0.01	0.025
Aug.30/16	0.01	0.01	0.230	Oct.26/16	0.02	0.01	0.030	Dec.19/16	0.40	0.22	0.720
				Oct.31/16	0.01	0.00	0.015	Dec.28/16	0.76	0.41	0.990
MAX.	0.21	0.10	0.53		0.16	0.07	1.01		0.76	0.41	0.99
LIMITS	**5.00**	**5.40**	**20**		**5.00**	**5.40**	**20**		**5.00**	**5.40**	**20**

"Daily Concentration" of Total Ammonia Nitrogen

"Daily Loading" of Total Ammonia Nitrogen