TOWNSHIP OF BONNECHERE VALLEY
WATER AND SEWAGE DEPARTMENT

EGANVILLE SEWAGE TREATMENT PLANT
SLUDGE MANAGEMENT REPORT

YEAR: 2012

1	EGANVILLE SEWAGE TREATMENT PLANT							DIGESTER TYPE : **AEROBIC**								
2012	**SLUDGE**	**PHOS.**	**TOTAL**	**VOLATILE**	**AMMONIA**	**As**	**Cd**	**Co**	**Cr**	**Cu**	**Hg**	**Mo**	**Ni**	**Pb**	**Se**	**Zn**
MONTH	**Processe**	mg/l	**SOLIDS**	**SOLIDS**	**NITRATE**	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
	m3		(mg/l)	(mg/l)	(mg/l)	**Arsenic**	**Cadm.**	**Cobalt**	**Chrom.**	**Copper**	**Merc.**	**Moly**	**Nickel**	**Lead**	**Selen.**	**Zinc**
JAN.	102	545	19,100	11,700	6.73	0.10	0.03	0.03	0.23	7.22	0.016	0.07	0.14	0.40	0.10	6.62
FEB.	12	433	13,400	8,620	3.47	0.10	0.03	0.03	0.15	4.70	0.07	0.07	0.09	0.30	0.10	6.35
MAR.	177	970	27,000	17,400	33.60	0.10	0.03	0.03	0.33	11.2	0.032	0.12	0.22	0.50	0.10	9.20
APR.	106	403	11,700	7,900	19.30	0.10	0.03	0.03	0.14	3.59	0.005	0.05	0.07	0.20	0.10	3.14
MAY	44	624	15,000	9,360	40.90	0.10	0.03	0.03	0.17	4.31	0.012	0.05	0.11	0.20	0.40	3.89
JUN.	93	983	23,100	14,400	249*	0.10	0.03	0.05	0.34	9.86	0.027	0.11	0.22	0.50	0.10	13.40
JUL.	76	698	22,500	13,400	15.50	0.10	0.03	0.04	0.32	7.64	0.042	0.09	0.15	0.40	0.10	5.94
AUG.	196	879	20,900	12,500	89.10	0.10	0.03	0.05	0.34	9.46	0.033	0.10	0.17	0.60	0.10	7.86
SEPT.	175	1060	25600	15500	92.70	0.10	0.03	0.04	0.27	8.85	0.04	0.10	0.12	0.50	0.10	7.10
OCT.	135	826	21,600	12,700	25.10	0.10	0.03	0.03	0.34	9.97	0.049	0.10	0.19	0.60	0.10	8.63
NOV.	58	752	19,900	4,070	1.76	0.10	0.03	0.03	0.27	8.65	0.033	0.10	0.17	0.40	0.10	7.84
DEC.	55	439	21,600	13,100	1.53	0.10	0.03	0.03	0.24	8.14	0.027	0.08	0.14	0.30	0.10	6.54
TOTAL	**1229**				*erroneous result removed from average											
AVG.	**102**	**718**	**20117**	**11721**	**29.97**	**0.10**	**0.03**	**0.04**	**0.26**	**7.80**	**0.03**	**0.09**	**0.15**	**0.41**	**0.13**	**7.21**

Geotube	Volume	% Solids	% V.S.	Total P	Ammonia (N)	**As**	**Cd**	**Co**	**Cr**	**Cu**	**Hg**	**Mo**	**Ni**	**Pb**	**Se**	**Zn**
	m3			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
3B(3)	41	15.3	60	29700	1160	2	0.5	2	12	337	1.28	3	8	17	4	329
3A(3)	39	16.3	58.1	40800	2450	2	0.6	2	13	388	1.35	3	10	22	3	407
1B(3)	19	11.2	56.2	42500	6580	2	0.8	5	41	598	0.99	5	20	33	4	474
2B(3)	40	10.5	58.7	32700	8320	2	0.5	4	43	550	0.96	4	18	27	4	417
TOTAL	**139**															
AVG.		13.325	58.25	36425	4627.5	2	0.6	3.25	27.25	468.25	1.145	3.75	14	24.75	3.75	406.75

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METALS	MAXIMUM PERMISSIBLE METAL CONCENTRATION (mg/kg of solids)			METAL CONCENTRATION IN DIGESTER SLUDGE (mg/kg of solids)			METAL CONCENTRATION IN GEOTUBE SLUDGE (mg/kg of solids)				
							3B(3)	3A(3)	1B(3)	2B(3	AVG.
ARSENIC (As)		170			5		<2	<2	2	<2	2
CADMIUM (Cd)		34			1.49		<0.5	0.6	0.8	0.5	0.6
COBALT (Co)		340			1.74		2	2	5	4	3.25
CHROMIUM (Cr)		2800			13.01		12	13	41	43	27.25
COPPER (Cu)		1700			387.7		337	388	598	550	468.25
MERCURY (Hg)		11			1.60		1.28	1.35	0.99	0.96	1.14
MOLYBDENUM (Mo)		94			4.31		3	3	5	4	3.75
NICKEL (Ni)		420			7.42		8	10	20	18	14
LEAD (Pb)		1100			20.30		17	22	33	27	24.75
SELENIUM (Se)		34			6.21		4	3	4	4	3.75
ZINC (Zc)		4200			358.37		329	407	474	417	406.75
E coli							100	880	100	100	295
			8,000,000 / AVG. SLUDGE SOLIDS (mg/L)								
			397.68 m3 per hectare per 5 years								

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DEWATERED BIOSOLIDS HAULED TO FIELDS					**SLUDGE RECEIVED FROM COBDEN STP**				
2012								**LIQUID**	
DATE	**C of A #**	**Geotube#**	**VOLUME**			**MONTH**		**VOLUME**	
			m3					**m3**	
Jul-30	S4131-30	3B(3)	41			Jan		60	
Aug-30	S4131-30	3A(3)	39			Feb		45	
Nov-21	S4131-30	1B(3)	19			Mar		78	
Nov-21	S4131-30	2B(3)	40			Sept		22	
						Dec		51	
TOTALS			**139**					**256**	

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