

Table 1 - Biosolids Recipients

Non-Agricultural Source Materials Plan (NASM)	Address	Expiry Date
22853	Huffam Rd.	December 31, 2021
22855	Lake Rd.	December 31, 2021
22901	County Rd.8	December 31, 2021
23007	County Rd. 4	December 31, 2021
23047	Palace Rd.	December 31, 2021
23048	Multiple farms	December 31, 2021
23119	Hamilton Rd.	December 31, 2021
23425	Parry/Chambers Rd.	December 31, 2022
23525	County Rd. 8	December 31, 2022
23641	Hamilton Rd.	December 31, 2022
23950	County Rd. 8	December 31, 2023
24003	Hamilton Rd.	December 31, 2023
24091	Multiple farms	December 31, 2023
24326	Greater Napanee	December 31, 2024
24327	Greater Napanee	December 31, 2024

Table 2 - Annual Overflow Summary

PCP #	Location	Volume (m3)
1	Orchard-Emma Martin CSO	0.00
2	535 Rideau Belle Park Trunk	0.00
5	Dalton Ave PS	0.00
14	Barrack St E of King St	12.00
22	William St W of Ontario St	80.02
23	Earl St W of Ontario St	943.42
24	Gore St W of Ontario St	110.66
25	Lower Union W of Ontario St	378.94
26	West St S of King St	2685.00
28	King St (O'Kill) PS	0.00
34	Helen St at Mack St	0.00
35	Palace Rd PS	23.46
41	Morton St PS	0.00
43	King-Portsmouth PS	0.00
48	West end of Sherwood Dr	0.00
50	South end of Parkway	0.00
51	Clarence St W of King St	980.55
52	Raglan Rd at Rideau St	405.72
53	Union St at Division St	525.19
55	King-George CSO	11254.20
56	King-Collingwood CSO	5868.01
65	535 Rideau Belle Park Local	2928.29
68	Quebec St at Barrie St	0.00
69	Greenview Dr PS	0.00
70	Carlisle St at Chestnut St	0.00
74	Barrett Court	0.00
79	Riverview Way PS	0.00
	Total	26195.45

Table 3 - Annual Effluent Concentrations

Effluent Parameter	Objective	Annual Average
CBOD5 (mg/L)	15.00 (Monthly Average)	2.18
Total Suspended Solids (mg/L)	15.00 (Monthly Average)	4.17
Total Phosphorus (mg/L)	0.8 (Monthly Average)	0.61
Total Ammonia Nitrogen (October to May) (mg/L)	12.00	1.21
Total Ammonia Nitrogen (June) (mg/L)	7.00	0.43
Total Ammonia Nitrogen (July to August) (mg/L)	5.00	0.73
Total Ammonia Nitrogen (September) (mg/L)	7.00	1.35
Total Chlorine Residual (mg/L)	<0.02	0.01
E. Coli (Monthly Geometric Mean Density) (CFU/100mL)	100	4

Table 4 - Final Effluent Results (Monthly Average)

Month	CBOD5 (mg/L)	Total Suspended Solids (mg/L)	Total Phosphorus (mg/L)	Total Ammonia Nitrogen (mg/L)	pH	E Coli (CFU/100m L)	Acute Lethality (Pass or Fail)
January	3.00	1.80	0.65	0.40	6.96	3	Pass
February	3.00	1.80	0.84	1.81	6.89	2	Pass
March	2.10	2.70	0.67	1.81	6.88	2	Pass
April	1.70	2.20	0.64	1.44	7.01	3	Pass
May	1.70	1.60	0.69	1.48	7.32	1	Pass
June	1.90	4.20	0.76	0.43	7.34	4	Pass
July	2.70	5.50	0.50	0.68	7.42	7	Pass
August	1.70	4.10	0.67	0.79	7.17	3	Pass
September	1.70	9.00	0.62	1.35	6.85	5	Pass
October	1.70	7.50	0.35	1.37	6.79	9	Pass
November	2.00	5.00	0.46	1.25	6.78	2	N/A
December	3.00	4.60	0.44	0.75	6.78	2	N/A
Average	2.18	4.17	0.61	1.13	7.02	3.58	N/A

Table 5 - Effluent Loading Limits

Effluent Parameter	Limit	Loading Limit from Effluent	Annual Average
CBOD5	25.0 mg/L	2375 kg/day	131 kg/day
Total Suspended Solids	25.0 mg/L	2375 kg/day	239 kg/day
Total Phosphorus	1.0 mg/L	95 kg/day	35 kg/day
pH	6.0 - 9.5	NA	7.02
Acute Lethality (PASS or FAIL)	NA	NA	PASS

Table 6 - Annual Plant Flows

Parameter	2015	2016	2017	2018	2019	2020	2021
Average (m3/day)	53076	59640	86200	69005	77265	59435	57278
Max (m3/day)	136899	179987	169266	181067	160459	141016	146486
Design (m3/day)	95000	95000	95000	95000	95000	95000	95000
Design Peak (m3/day)	193000	193000	193000	193000	193000	193000	193000
Daily/Design (%)	56	63	91	73	81	63	60
Max/Peak (%)	71	93	88	94	83	73	76