

Facility Address: Preparer's Name: 176 Scraggy Neck Road Bracken Engineering, Inc. Town of Bourne - Water Resources Nitrogen Loading and Mitigation Worksheet see Cape Cod Commission Technical Bulletin 91-001 for further details: https://capecodcommission.org/resource-library/file/?url=/dept/com 1/9/2023 Pocasset Harbor ${\it mission/team/Website_Resources/regulatory/NitrogenLoadTechbulletin.} {\it pwatershed:}$

Project Nitrogen Load Proposed Wastewater New Construction/ Raze & Rebuild, Increases	in Flow, or Repairs/ Upgrade	Calculate (A') through (P') as w/ (A) through (P):	xisting Conditions
	(a)	Title-5 wastew	
l ————————————————————————————————————	(b) (A)	Actual wastew Avg. wastew	
Place v in applicable box: * Title-5 flows prescribed by TB91-001 for comme Yes No	ercial uses		
X Will the project be connected to sewer?			in applicable box:
X=IF(I! Is project Title-5 wastewater flow 10,000 gpd or greater?			es No X Is existing development on sewer?
		_	(If 'Yes', then go to line 2.)
Place v in applicable box and multiply unsewered wastewater flow by applicable conversion factor: Standard Title-5 System (35-ppm-N) x 0.048359		IV.	Standard Title-5 System
DEP-approved I/A System (25-ppm-N) x 0.034542			DEP-approved I/A System (commercial)
X DEP-approved I/A System (19-ppm-N)	MicroFast	<u> </u>	DEP-approved I/A System (residential) DEP-approved enhanced I/A
	(B)		5.32 kg-N/yr (B ')
Wastewater nitrogen load (Actual flows) = 4.59 kg-N/yr	(C)		8.46 kg-N/yr (C') wastewater offsets
Stormwater Runoff Town of Bourne Recharge rate for Bourne (inches; for natural areas			
	RECH)		
Project site area: 6.853 acres	(D)	Projec	t site area: 6.853 acres (D)
Project site wetland area: 4.855 acres	(E)	Project site we	tland area: 4.855 acres (E)
		-	
Project site upland area: 1.997 acres	(F)	Project site up	oland area: 1.997 acres (F)
Pervious unpaved upland: 1.898 acres	(G)	Pervious unpav	ed upland: 1.975 acres (G')
	(H)	Р	aved area: 0 s.f. (H')
Factor may be adjusted for employment of LID \rightarrow x 1.4158E-04 LID = low impact development = 0 kg-N/yr	(1)	Paving rur	noff offset: 0.0000 kg-N/yr (I')
Roof area: 4,317 s.f.	(J)		Roof area: 985 s.f. (J')
x 7.0792E-05			
	(K)	Roof rui	noff offset: 0.0697 kg-N/yr (K')
Fertilizer Previous unpaved upland - roof area = Managed turf/ lawn area 6,583 s.f.		Managed Turf/	lawn area: 8,917 s.f.
x 3.4019E-04	(L)		izer offset: 3.034 kg-N/yr (L')
	\- /	rerui	
Total Nitrogen Load Total project nitrogen load (Title-5 flows): 14.10 kg-N/yr	(M)= (B)+(I)+(K)+(L)	Existing nitrogen load (Titl	e-5 flows): 8.42 kg-N/yr (M')
Total project nitrogen load (Actual flows): 7.14 kg-N/yr	(N)= (C)+(I)+(K)+(L)	Existing nitrogen load (Act	tual flows): 11.57 kg-N/yr (N')
Nitrogen load per acre (Average): 1.55 kg-N/yr/acre	(O)= (M)+(N) +2 +(F)	Nitrogen offse	
Proposed Nitrogen Loading Concentration Desired pitrogen loading concentration (Title 5 flows). 2.76 ppm-N	(P)= (-) . 702 70	(M)	disting nitrogen loading concentrations: 1.87 ppm-N (P')
Project nitrogen loading concentration (Title-5 flows):	(a)+723.76 + (itle-5 flows 1.07 ppn-14 (17)
Project nitrogen loading concentration (Actual flows): 1.50 ppm-N	(Q)= (b)+723.76 +	(N) G)x(RECH)+9.7286 + (H)+10,594 + (K)+0.75	ctual flows 2.52 ppm-N (Q')
Project nitrogen loading concentration (Average): 2.13 ppm-N	(R)= (P)+(Q) +2		Average 2.19 ppm-N (R')
Project filtrogen loading concentration (Average).			
<u> </u>			
Resource/ Impact Based Criteria			
Resource/ Impact Based Criteria Marine Water Recharge Areas / Coastal Embayments			
Marine Water Recharge Areas / Coastal Embayments Yes No	ond, Pocasset River Basin, Poc	asset Harbor / Hen Cove / Red Brook Harbor, Megansett	: / Squeteague Harbors** ?
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