



Facility Address: 3 Sunny Ln  
 Preparer's Name: Cape & Islands Eng  
 Date: 1/6/2023  
 Watershed: Buzzard Bay

/team/Website\_Resources/regulatory/NitrogenLoadTechbulletin.pdf

pairs/ Upgrades

**Existing Conditions**

Calculate (A') through (P') as w/ (A) through (P):

Title-5 wastewater flows:  gpd  
 Actual wastewater flows:  \*  
 Avg. wastewater flows:  gpd **(A')**

Place  $\checkmark$  in applicable box:

**Yes**  **No**  Is existing development on sewer?  
 (If 'Yes', then go to line 2.)

- Standard Title-5 System
- DEP-approved I/A System (commercial)
- DEP-approved I/A System (residential)
- DEP-approved enhanced I/A

kg-N/yr **(B')**

kg-N/yr **(C')**  
 wastewater offsets

Project site area:  acres **(D)**

Project site wetland area:  acres **(E)**

Project site upland area:  acres **(F)**

Pervious unpaved upland:  acres **(G')**

Paved area:  s.f. **(H')**

Paving runoff offset:  kg-N/yr **(I')**

Roof area:  s.f. **(J')**

Roof runoff offset:  kg-N/yr **(K')**

Managed Turf/ lawn area:  s.f.

Fertilizer offset:  kg-N/yr **(L')**

**(B)+(I)+(K)+(L)**

Existing nitrogen load (Title-5 flows):  kg-N/yr **(M')**

**(C)+(I)+(K)+(L)**

Existing nitrogen load (Actual flows):  kg-N/yr **(N')**

**(M)+(N) ÷ 2 ÷ (F)**

Nitrogen offset per acre:  kg-N/yr/acre **(O')**

**Existing nitrogen loading concentrations:**

Title-5 flows  ppm-N **(P')**

Actual flows  ppm-N **(Q')**

Average  ppm-N **(R')**

$$\frac{(M)}{(a) \div 723.76 + (G) \times (RECH) \div 9.7286 + (H) \div 10,594 + (K) \div 0.75}$$

$$\frac{(N)}{(b) \div 723.76 + (G) \times (RECH) \div 9.7286 + (H) \div 10,594 + (K) \div 0.75}$$

**(P)+(Q) ÷ 2**