



November 16, 2021

Martha's Vineyard Commission
P.O. Box 1447
Oak Bluffs, MA 02557

Re: Shearer Cottage Realty Trust
Sewage Flow Calculations
4 Morgan Avenue, Oak Bluffs
Map 3 Parcels 119 and 132
Total acreage of 2 lots 0.635 acres

Dear Commission Members:

The following are the nitrogen calculations for the above referenced project incorporating a Title V sewage disposal system for wastewater disposal. The property is located in the Oak Bluffs Harbor Watershed where the adjusted nitrogen load limit is 11.83 kg/acre/yr.

The Shearer Cottages will be open from May 1st through October 31st (6 months) every year. A total of 15 guest rooms / staff rooms are proposed. In addition, 30 events with up to 60 people and 5 events with more than 60 people will take place during the year. The 5 events with more than 60 people will be provided with luxury portable toilets and will not use the Shearer Cottages facilities.

Below is a table showing the proposed nitrogen loads:

Source	N load (kg/yr) with Title V @ 26.25 mg/l
15 bedrooms	9.08
30 Events with 60 attendees	2.41
5 Events with more than 60 attendees using portable toilets	0
Total	11.49

The nitrogen release from the Shearer Cottages proposal is within the allowable limit of 11.83 kg/acre/yr.

Please let me know if you have any questions.

Sincerely,

George Sourati, P.E.