

Phase 6 (Delamater Cottage Wastewater Calculations)

Phase 6 includes the renovation of the existing Delamater House to restore it to serve as guest accommodations with 2-bedrooms. The renovated Delamater House will require a new sewage disposal system to treat all of the proposed wastewater flow. The design flow for this system has been summarized in the table below.

Phase 6 Delamater House 2-Bedroom Guest Accommodations Design Flow Rate:

Description	Quantity	Demand(GPD/PER)	Flow (GPD)
2-Bedrooms	2	110	220
Total Flow (GPD)			220

Phase 6 Delamater Cottage (2-Bedroom Guest Accommodations)

Septic Tank Requirements:

Septic Tank: 220 GPD

(NYSDEC* Table D-2 (1.5 x Q)

$220 \times 1.5 = 330 \text{ gal.}$

USE: 1,000 gal. Tank

Soil Information:

Stabilized Perc Rate: 8-10 min/inch.

Test Location(s): DH-2

Application Rate: 0.90 gal/day/sf

Depth to Rock: N/A

Depth to Water: N/A

Sewage Disposal System Requirements:

System Type: Standard Absorption Trenches

Septic Tank(s): (1) 1,000 gal. Proposed Concrete Tank

Absorption area required: $220 \text{ GPD} / 0.9 \text{ (GPD per S.F.)} = 244.4 \text{ S.F.}$

(Req.) Length for Trenches: $244.4 \text{ S.F.} / 2 \text{ ft} = 122.2 \text{ LF}$

No. of Laterals: 3

Min. Lateral Length: $122.2 \text{ ft} / 3 = 40.7 \text{ ft. USE: 42 L.F.}$

Total Length Provided: 3 laterals @ 42 LF for 126 LF

Trench Width: 2 ft.

Trench Spacing: 6 ft. O/C.

Trench Depth: 18" – 24"

Fill Depth: 0'

Dosing Required: No

Required Dose Volume: TBD

Nearest Well: Upgradient:>200 ft.; Downgradient:>200 ft.