



April 15, 2020

Jennifer Roy, CZEO
Zoning Enforcement Officer/Land Use Technician
Town of Somers
600 Main Street
Somers, CT 06071

Re: Maximum Septic System Capacity
Monticello Building
Hillsdale College

Dear Jen,

Per the request of the Zoning Commission, I am providing below, the calculation of the maximum daily capacity of the existing septic system at the Monticello building, 732 Hall Hill Road. According to information on file with the Town Sanitarian, the existing septic leaching fields consist of 280 linear feet of high capacity infiltrators with a corresponding effective leaching area of 1,148 square feet (sf). Based on the measured percolation rate of the soils (12 minutes per inch), the corresponding sewage application rate is 1.2 gallons per day (gpd) per square foot. Using the effective leaching area and application rate, the maximum daily flow to the system is calculated to be $(1,148 \text{ sf} / 1.2 \text{ gpd/sf})$ 957 gpd. After subtracting the capacity required for the four bedrooms within the Monticello building (400 gpd), the remaining capacity available for visitors is 557 gpd. Utilizing the flow rate of 3.5 gpd per person from the Health Code, the resulting maximum number of daily occupants is then calculated to be 159 persons. However, should additional capacity be necessary, the existing system could potentially be expanded or portable toilets could be utilized for larger special events.

I hope this information satisfactorily addresses the commissioner's concerns. If there are any questions, or you require further information, please call our office at (860) 623-0569.

Sincerely,

Timothy A. Coon, P.E.
J.R. Russo & Associates, LLC

cc: Hillsdale College
Atty. John Parks