

# ARTEL ENGINEERING GROUP, LLC

CIVIL, ENVIRONMENTAL AND MUNICIPAL ENGINEERS • PROJECT MANAGERS • SITE PLANNERS • PERMIT EXPEDITORS  
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April 20, 2021

Mr. Timothy Simpkins, MA, RS  
Director of Health  
Town of New Fairfield  
4 Brush Hill Road  
New Fairfield, Connecticut 06812

Re: Septic System  
9 Brush Hill Road, New Fairfield, CT

Dear Mr. Simpkins:

The purpose of this letter is to serve as a feasibility evaluation and confirmation of the existing subsurface sewage disposal system and the proposed 'delicatessen' use at the above referenced property. The property owner of the above referenced property is seeking to lease approximately 2,000-sf of the building for use as a 'delicatessen'. Based on 3-months of water meter data from the delicatessen owner's larger establishment (consisting of approximately 4,000-sf of delicatessen and pizza shop with 20-seats) in Somers, NY, his daily water usage approximately 251-gallons. For the subject property we will assume that the daily sewage flows will be the same (approximately 251-gallons) as the Somers property though the proposed use will be much smaller, consisting of approximately 2,000-sf deli (no pizzeria) with up to 10-seats for customers. With a 1.5 factor of safety applied, the estimated daily sewage flow is 376.5-gallons requiring 537.9-sf of leaching area (based on the system design percolation rate of 1" drop in 20-minutes and 'problematic' sewage application rate specified in Table 7 of the Technical Standards).

Please note, the existing septic system on this property was designed to facilitate up to 480-gallons per day of 'problematic' sewage. The existing septic system consists of a 1,000-gallon grease trap, a 1,000-gallon septic tank, a 1,000-gallon pump chamber and 136-lf of leaching system comprised of 2'-tall by 4'-wide concrete leaching galleries (providing 924.8-sf of effective leaching area).

Based on the proposed use at this property at this time, it is the professional opinion of this office that there is adequate septic system capacity for the proposed use at this site at this time. Installation of a water meter is required and monthly monitoring is recommended to confirm water usage. Please feel free to contact this office with any questions, comments or concerns.

Sincerely,  
**ARTEL ENGINEERING GROUP, LLC**

*Dainius L. Virbickas*

Dainius Virbickas, P.E.  
Professional Engineering Manager