



HEADWATERS ENGINEERING, PLLC.
1025 HOBART HILL ROAD
SOUTH KORTRIGHT, NY 13842

MEMORANDUM



To: Laura Cyran – Owner
From: Ben Dates, P.E. – Headwaters Engineering, PLLC
Date: 6.18.25
RE: 232 Wood Road – Soils Analysis

On June 18th, 2025, Benjamin Dates, P.E. a performed soils analysis at 232 Wood Road in the Town of Conesville, Schoharie County, New York (Tax Parcel ID: 202.-4-21). The soils analysis consisted of two (2) deep test pits that were excavated using a mini-excavator, and two (2) percolation tests hand-dug adjacent to the test pit locations. Weather during the tests was 65°F and overcast. Michael Terrill with the New York City Department of Environmental Protection (DEP) was present to witness the soils tests.

Results included in *Table 1* below:

Table 1. Soil Test Results

Test Pit ID	Slope Through Test Pit (%)	Depth of Test Pit (in)	Depth to Limiting Layer (in)	Limiting Strata Layer / Boundary Condition	Root Depth (in)	Usable Soil Depth (in)	Percolation Test Hole Depth (in)	Percolation Rates (min/in)
TP-1	10	31	21	Mottling / Hardpan	24	21	12	1. 2'15" 2. 3'00" 3. 3'00"
TP-2	8	25	17	Mottling / Hardpan	18	17	12	1. 4'00" 2. 5'15" 3. 6'15"

Based on the soil test results, and in accordance with New York State's Department of Health's *Residential Onsite Wastewater Treatment Systems – Design Handbook* and *Appendix 75-A: Wastewater Treatment Standards – Residential Onsite Systems* from Title 10 within New York State's Compilation of Codes, Rules, and Regulations, each test location indicated that a **raised residential subsurface sewage treatment system (SSTS) is feasible**. Raised systems require a minimum of 12 inches of usable soil; there were 21 inches of usable soil at TP-1 and 17 inches at TP-2.

Refer to *Figure 1* below for test pit locations.



Figure 1. Soils Test Locations