

TH#11	80.0	NOTE: THESE SOIL TESTS CONTACTED BY OTHERS. SOIL DATA ON FILE WITH AVON HEALTH DEPARTMENT.
TH#11A	32.0	

SOIL TEST REPORT					
DATE: <u>March 27, 1999</u>					
CLIENT:			LOCATION:		
SID SATYAN 899-20			Lot #13, Westmillon Dr. Avon, Connecticut		
PERCOLATION TEST				SUBSOIL DATA	
TEST HOLE	TEST DEPTH FOOTER	PERCOLATION MIN/HR	DEPTH FOOTER	SOIL TYPE	
T191	31	80.0	0 - 1	Topsoil/litter Sediment orange brown very silty fine sand and clay. Compact reddish brown very silty very fine sand. 3/16/99	
			1 - 28		
			28 - 31		
T192	18	26.7	0 - 1	Topsoil. Sediment orange brown very silty very fine sand 3/16/99	
			1 - 18		
T193	18	NO TEST			
T194	30	80.0	0 - 2	Water at 12" 3/15/99 Water at 9" 3/16/99 Water @ 12" 6/25/99	
			2 - 24		
			24 - 30		
T195	18	40.0	0 - 2	Topsoil/litter. Sediment orange brown sanduill. 3/16/99	
			2 - 18		
T196	18	NO TEST			
T196	18	NO TEST		Water at 12" 3/15/99 Water at 9" 3/16/99 Water at 12" 6/25/99	

0000 GCH DATA

SOIL TEST REPORT				
DATE: August 13, 2002				
CLIENT: Mr. Siddiq A. Sattar Job# 02-05			LOCATION: Lot #13A 4 Vermillion Drive Avon, CT	
PERCOLATION TEST			SUBSOL DATA	
TEST HOLE	TEST DEPTH INCHES	PERCOLATION INCHES	DEPTH INCHES	SOIL TYPE
TH#101	19	26.7	0 - 2 - 19	Litter and dark topsoil Brownish-red firm silt loam, some fine sand, gravel and cobbles. 8-13-02
TH#102	18	53.3	0 - 1 - 18	Litter and dark topsoil Reddish-brown very firm silt loam, trace fine sand, gravel and cobbles. 8-13-02
TH#103	18	52.0	0 - 2 - 18	Litter and dark topsoil Brownish-red silt loam, trace fine sand, gravel and cobbles. 8-13-02

SOIL TEST REPORT				
DATE: May 21, 2003				
CLIENT: Mr. Siddig Sattar Job # 02-05		LOCATION: 44 Vermillion Drive Aven, Ct.		
PERCOLATION TEST		SUBSOIL DATA		
TEST HOLE	TEST DEPTH (FOOT)	PERCOLATION APPEARANCE	DEPTH (INCH)	SOIL TYPE
DP#101	80		0 - 4 4 - 20 20 - 80	Litter and dark topsoil. Brown silt loam. Reddish-brown compact fine sandy silt till, a little gravel. Seepage at 20" at downhill end of pit. No refusal. 5/16/03
DP#102	72		0 - 4 4 - 20 20 - 72	Litter and dark topsoil. Brown silt loam. Reddish-brown compact fine sandy silt till, some gravel and rocks. Roots to 24", some deeper No apparent mottles Water at 55" No refusal. 5/16/03
DP#103	72		0 - 3 3 - 22 22 - 72	Litter and dark topsoil. Brown silt loam. Reddish-brown compact fine sandy silt till, rocks and gravel. Roots to 20" No apparent mottles No water No refusal. 5/16/03
DP#104	77		0 - 4 4 - 23 23 - 77	Litter and dark topsoil. Brown silt loam. Reddish-brown compact fine sandy silt till, very rocky. Roots to 26", some deeper No apparent mottles No water No refusal. 5/16/03
DP#105	80		0 - 5 5 - 30 20 - 80	Litter and dark topsoil. Brown silt loam. Reddish-brown compact fine sandy silt till, rocky. Roots to 36", some deeper No apparent mottles No water No refusal. 5/16/03
DP#106	72		0 - 4 4 - 20 20 - 72	Litter and dark topsoil. Brown silt loam. Reddish-brown firm fine sandy silt till, more compact with depth. Roots to 16" No apparent mottles Water at 27" No refusal. 5/16/03
DP#107	80		0 - 3 3 - 18 18 - 80	Litter and dark topsoil. Brown silt loam. Reddish-brown compact fine sandy silt till, rocky. Roots to 18" Mottles at 24" 5/16/03

SOIL TEST REPORT				
DATE: <u>May 21, 2003</u>				
CLIENT: Mr. Siddiq Sattar Job # 02-05			LOCATION: 4 Yernhill Drive Avon, CT	
PERCOLATION TEST			SUBSOIL DATA	
TEST HOLE	TEST DEPTH INCHES	PERCOLATION MINUTES	DEPTH INCHES	SOIL TYPE
DP#101	80		0 - 4	Litter and dark topsoil.
			4 - 20	Brown silty loam.
			20 - 80	Reddish-brown compact fine sandy silt till, a little gravel.
				Seepage at 20" at downhill end of pit. No refusal.
				516/03
DP#102	72		0 - 4	Litter and dark topsoil.
			4 - 20	Brown silty loam.
			20 - 72	Reddish-brown compact fine sandy silt till, some gravel and rocks.
				Roots to 24", some deeper No apparent moles
				Water at 55" No refusal
				516/03

SOIL TEST REPORT				
DATE: July 26, 2005				
CLIENT: Mr. Siddiq A. Sattar Job# 02-05			LOCATION: Lot 13A/Parcel 4420004 4 Vermilion Drive Avon, CT	
PERCOLATION TEST			SUBSOIL DATA	
TEST HOLE	TEST DEPTH FOOT/IN	PERCOLATION MINUTES	DEPTH INCHES	SOIL TYPE
TH#501	18	40.0	0 - 3 3 - 18	Litter and dark topsoil. Brown silt loam, cobbles. 7/2405
TH#502	20	32.0	0 - 3 3 - 20	Litter and dark topsoil. Brown silt loam, trace fine sand, some gravel and cobbles. 7/2405
TH#503	19	26.7	0 - 2 2 - 19	Litter and dark topsoil. Brown silt loam, trace fine sand, rock at bottom of hole. 7/2405
TH#504	18	40.0	0 - 3 3 - 18	Litter and dark topsoil. Brown silt loam, cobbles. 7/2405

SOIL TEST REPORT				
CLIENT: Anthony & Michelle Angeloni Job #20-07			LOCATION: 4 Vemilion Drive Avon, CT	
SOIL TEST			SUBSOIL DATA	
TEST HOLE	TEST DEPTH FOOT/IN	PERCUSSION REMARKS	DEPTH FOOT/IN	SOIL TYPE
DP#1001	58		0 - 3 3 - 18 18 - 58	Litter and dark topsoil Yellow-brown silt loam Red-brown very compact fine sandy silty till, some gravel Roots to 18" No apparent mottles No water No refusal (very compact at bottom typical) 7/7/20
DP#1002	55		0 - 4 4 - 18 18 - 55	Litter and dark topsoil Yellow-brown silt loam Red-brown very compact fine sandy silty till, some gravel Roots to 16" No apparent mottles No water No refusal 7/7/20
DP#1003	51		0 - 3 3 - 19 19 - 51	Litter and dark topsoil Yellow-brown silt loam Red-brown very compact fine sandy silty till, some gravel Roots to 12" Some mottles at 19" and below No water No refusal 7/7/20
DP#1004	52		0 - 4 4 - 19 19 - 52	Litter and dark topsoil Yellow-brown silt loam Red-brown very compact fine sandy silty till, some gravel Roots to 14" Mottles at 18" and below No water No refusal 7/7/20
DP#1005	60		0 - 5 5 - 18 18 - 60	Litter and dark topsoil Yellow-brown silt loam Red-brown very compact fine sandy silty till, some gravel Roots to 13" Mottles at 18" and below No water No refusal 7/7/20
DP#1006	53		0 - 4 4 - 20 20 - 53	Litter and dark topsoil Yellow-brown silt loam Red-brown very compact fine sandy silty till, some gravel Roots to 20" No apparent mottles No water No refusal 7/7/20
DP#1007	56		0 - 3 3 - 19 19 - 56	Litter and dark topsoil Yellow-brown silt loam Red-brown very compact fine sandy silty till, some gravel Roots to 12" No apparent mottles No water No refusal 7/7/20
DP#1008	48		0 - 3 3 - 18 18 - 48	Litter and dark topsoil Yellow-brown silt loam Red-brown very compact fine sandy silty till, some gravel Roots to 17" No apparent mottles No water No refusal 7/7/20
DP#1009	54		0 - 4 4 - 18 18 - 54	Litter and dark topsoil Yellow-brown silt loam Red-brown very compact fine sandy silty till, some gravel Roots to 18" No apparent mottles No water No refusal 7/7/20

SCALE: HORIZ: 1"=20'

VERT: 1"=2'

CROSS-SECTION VIEW:

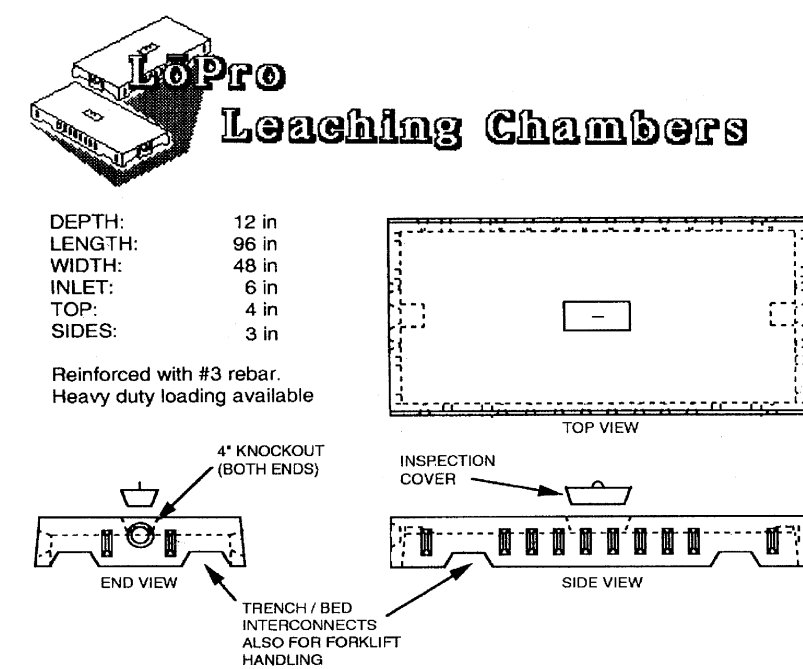
- PROPOSED GROUND SURFACE
- 1" DIAMETER BROKEN STONE OR SCREENED GRAVEL
- SUITABLE CLEAN FILL
- 6" MIN.
- EXTEND SEPTIC SAND 5' MINIMUM DOWNGRADIENT AND EXTEND CLEAN COMMON FILL ADDITIONAL 5' MIN. DOWNGRADIENT (10' TOTAL)
- EXISTING GROUND SURFACE
- 5' MIN.
- 8" MIN.
- 30" SEPTIC SAND
- APPROVED SEPTIC SAND
- REMOVE TOPSOIL ($\pm 6"$), REPLACE WITH APPROVED SEPTIC SAND.

PLAN VIEW:

- 1'-0"
- 4'-0"
- 1'-0"
- 6'-0" TOTAL
- 12"-HIGH BY 4"-WIDE BY 8"-LONG PRECAST CONCRETE LEACHING CHAMBER (RICHARD'S "LO-PRO" OR EQUAL.)
- KEEP UNITS AND ROWS LEVEL. SEE PLAN FOR ELEVATIONS.

NOT TO SCALE

NOTE: DO NOT CONSTRUCT SEPTIC SYSTEM
UNDER WET CONDITIONS.



1. Property lines, dimensions, locations of wetland flags, location of watercourses, topography, bench mark, some soil test locations, existing storm drainage, and miscellaneous information taken from field survey and worksheet prepared in 2003 and revised in 2006 by Neriani Surveying, Avon, CT.
2. Limits of wetlands soil delineated in the field on April 20, 2003 by Timothy Mischke, Soil Scientist, and located by Neriani Surveying in November 2003.
3. Site is located in RU-2A Residential Zone.
4. Total area of site = 193,350 s.f. / 4.44 acres.
5. Sanitary sewage disposal by individual on-site subsurface septic system. The proposed septic system shall be designed by a Professional Engineer licensed in Connecticut, approved by Farmington Valley Health District and installed in accordance with the requirements of the Connecticut Public Health Code.
6. This lot is included in a subdivision that was approved prior to the 1982 revisions of the Connecticut Public Health Code, and therefore the minimum required separation distance from a septic system to the watercourse is 25 feet.
7. Water supply by individual on-site well.
8. All construction methods and materials shall conform to the regulations and requirements of the Town of Avon.
9. The Owner shall be responsible for obtaining all necessary permits and approvals prior to start of construction.
10. All stumps shall be chipped on-site and used as mulch, or taken off-site for disposal. No stumps shall be buried on-site.
11. It is intended that all erosion and sediment control measures conform to the requirements of the "Connecticut Guidelines for Soil Erosion & Sediment Control", May 2002 CT DEP Bulletin 34, and the "2004 Connecticut Stormwater Quality Manual" by the CT DEP.
12. A pre-construction meeting shall be conducted at least two weeks prior to the start of construction with the owner, the contractor, the design engineer and the Avon Planning and Community Development Specialist, John E. McCahill. John McCahill shall also be notified 48 hours in advance of any tree clearing and the start of construction on the site (860-409-4330).

1. Number of bedrooms in proposed house = 5 bedrooms
2. Septic tank size required and provided = 1,250 gallons + garbage disposal (250 gallons) = 1,500 gallons (precast concrete, two-compartment with outlet baffle filter)
3. Percolation rate used for design = Less than 10.1 min./in. (Septic system installed entirely in select sand fill)
4. Total effective leaching area required = 660 sq. ft.
5. Linear feet of 12"-high by 4'-wide by 8'-long precast concrete galleys required (5.9 s.f. / l.f.) = 112 l.f.
6. Linear feet of 12"-high by 4'-wide by 8'-long precast concrete galleys proposed = 112 l.f. (14 units) (One 112'-long row of 14 units)
7. Total effective leaching area provided = 663 sq. ft. (including 12" of stone on each end)

1. No large capacity (100 gallons or greater) whirlpool or spa is proposed

Percolation Factor (PF) = 30.1 to 40.0 min. / in. = 2.0*
 Flow Factor (FF) = Five bedrooms = 2.0
 Hydraulic Factor (HF) = 10.1 - 15.0% slopes, 18.0 - 22.0" to R.L. = 28
 *Leaching system installed entirely in select sand fill and bottom of system is above-existing grade and at least 24 inches above maximum groundwater.
 MLSS Required = (PF)(FF)(HF) = (2.0)(2.0)(28) = 112*
 MLSS Provided = 112*

FOR:
THE ANGELONI RESIDENCE
PARCEL 4420004
 4 VERMILLION DRIVE
 AVON, CONNECTICUT

**DAVID F. WHITNEY,
CONSULTING ENGINEERS, LLC**

21 ARCH ROAD
P.O. BOX 1605
AVON, CONNECTICUT 06001
(860) 673-8412

DATE: JULY 19, 2020	SCALE: AS SHOWN	DRAWN BY: GRA	CHECKED BY: DFW	SHEET NO. 3	PROJECT NO. 20-07
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