



 APPROXIMATE SEPTIC TEST PIT LOCATION

**PROJECT:**

**SEPTIC FIELD EVALUATION  
CARE ONE ASSISTED LIVING FACILITY  
3641 LAWRENCEVILLE-PRINCETON ROAD  
LAWRENCE TOWNSHIP, MERCER  
COUNTY, NEW JERSEY**

**DRAWING TITLE**

**TEST PIT  
LOCATION  
PLAN**

**DRAWING SHEET**

**1 OF 1**





May 25, 2022

Mr. Michael Thomas, PE, LEED AP ND, PMP  
Department Manager  
T&M Associates  
11 Tindall Road,  
Middletown, NJ 07748

**RE: Subsurface Investigation  
Proposed Septic System for New Care-One Facility  
3641 Lawrenceville-Princeton Road  
Lawrence Twp., Mercer County, New Jersey  
RPM Project # 61-150.1**

Dear Mr. Thomas:

Attached please find a hard copy of our *Signed and Sealed Test Pit Logs* for the above referenced project. This letter documents the soils encountered and infiltration rates encountered during the subsurface investigation commenced on May 17, 2022.

We trust this is the information you require. If you have any questions, or require additional information, please feel free to contact us.

Respectfully Submitted,  
**RPM Engineering LLC**

*Frank A. DeFeo*

Frank DeFeo  
Sr Project Manager, Geotechnical Services

*Robert L. Jost*

Robert L. Jost, P.E.  
NJ Professional Engineer  
NJ License #24GE05160900

# TEST PIT LOG

**Project:** Care One Lawrenceville Septic

**Client:** T&M Associates

**Date Completed:** 5/17/2022

**Job Number:** 61-150.1

**Location:** See Test Pit Location Plan

**Test Pit Number:** STP-1

**Top of Ground Elevation:** N/A

**SHGW Elevation:** NE

**Groundwater Elevation:** NE

**Topo Est:** \_\_\_\_ **Field Survey:** \_\_\_\_

Depth (ft)	Soil Description	Remarks
1	0' - 0.3'      Very dark brown (7.5YR 2.5/2) SANDY LOAM; subangular blocky, friable; common, fine roots	<b>Topsoil</b>
	0.3' - 1.3'      Dark yellowish brown (10YR 4/4) to dark gray (10YR 4/1) LOAMY SAND, 5% Gravel; granular, loose	<b>Fill</b>
2	1.3' - 3.5'      Strong brown (7.5YR 4/6) CLAY LOAM, 5% to 10% Gravel-sized Rock fragments; subangular blocky, friable	<b>Stratum I</b>
3		
4		
5		
6	3.5' - 6.8'      Strong brown (7.5YR 4/6) CLAY LOAM, 10% Gravel-sized Rock fragments, 15% Cobble-sized Rock fragments; subangular blocky, friable, moist	<b>Stratum I</b>
7		
8		
9	6.8' - 8.3'      Yellowish brown (10YR 5/4) LOAM SAND, 70% Cobble-sized Rock fragments; platy, loose, moist	<b>Stratum II</b>
10	8.3' - 9.8'      Yellowish brown (10YR 5/4) LOAM SAND, 15% Gravel-sized Rock fragments, 70% Cobble-sized Rock fragments; platy, loose, moist	
11	<b>End of Test Pit @ 10' [bucket refusal]</b>	
12	<b>Septic Testing Results:</b> In-Situ Percolation Test @ 7.8 feet = Greater than 20 in/hr [480 in/hr]	
13	Remolded Lab Tube Permeameter Test @ 7.8 feet = Replicate A: 1.6 in/hr; Replicate B: 2.9 in/hr	
14		
15		



875 Kings Highway, Suite 209, West Deptford, NJ 08096

**Excavator:** KA Excavating  
**Excavation Method:** CAT 314D trackhoe  
**RPM Representative:** Alex Redcay  
**Log Completed By:** Alex Redcay  
**Sheet:** 1 of 1

Alex Redcay  
 5/17/22

# TEST PIT LOG

**Project:** Care One Lawrenceville Septic

**Client:** T&M Associates

**Date Completed:** 5/17/2022

**Job Number:** 61-150.1

**Location:** See Test Pit Location Plan

**Test Pit Number:** STP-2

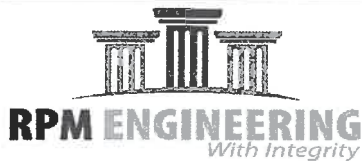
**Top of Ground Elevation:** N/A

**SHGW Elevation:** NE

**Groundwater Elevation:** NE

**Topo Est:**      **Field Survey:**     

Depth (ft)	Soil Description	Remarks
1	0' - 0.5'      Brown (7.5YR 4/3) LOAMY SAND, 15% Gravel; subangular blocky, friable; many, fine roots	<b>Topsoil</b>
	0.5' - 2'      Dark yellowish brown (10YR 4/4) to dark gray (10YR 4/1) SANDY LOAM, 5% Gravel; subangular blocky, friable	<b>Fill</b>
2		
3	2' - 4'      Yellowish brown (10YR 5/6) SANDY LOAM, 5% Gravel-sized Rock fragments, 5% Cobble-sized Rock fragments; subangular blocky, friable	<b>Stratum I</b>
4		
5		
6	5' - 6.5'      Yellowish brown (10YR 5/4) LOAMY SAND, 50% Gravel-sized Rock fragments, 20% Cobble-sized Rock fragments; platy, loose, moist	<b>Stratum II</b>
7	6.5' - 7'      Yellowish brown (10YR 5/4) LOAMY SAND, 15% Gravel-sized Rock fragments, 70% Cobble-sized Rock fragments; subangular blocky, friable, moist	
8	<b>End of Test Pit @ 7' [bucket refusal]</b>	
9		
10		
11		
12		
13		
14		
15		



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**RPM Representative:** Alex Redcay  
**Log Completed By:** Alex Redcay  
**Sheet:** 1 of 1

Alex Redcay  
5/24/22

# TEST PIT LOG

**Project:** Care One Lawrenceville Septic

**Client:** T&M Associates

**Date Completed:** 5/17/2022

**Job Number:** 61-150.1

**Location:** See Test Pit Location Plan

**Test Pit Number:** STP-3

**Top of Ground Elevation:** N/A

**SHGW Elevation:** NE

**Groundwater Elevation:** NE

**Topo Est:** \_\_\_\_ **Field Survey:** \_\_\_\_

Depth (ft)	Soil Description	Remarks
1	0' - 0.6' Dark yellowish brown (10YR 4/4) CLAY LOAM; subangular blocky, friable; common, fine to coarse roots	<b>Topsoil</b>
2	0.6' - 2' Dark yellowish brown (10YR 4/6) SANDY LOAM, 5% Gravel; subangular blocky, friable	<b>Fill</b>
3	2' - 4' Dark yellowish brown (10YR 4/6) SANDY LOAM, 15% Gravel-sized Rock fragments, 5% Cobble-sized Rock fragments; subangular blocky, friable  4' - 5' Dark yellowish brown (10YR 4/6) to brownish yellow (10YR 6/8) SANDY LOAM, 20% Gravel-sized Rock fragments, 40% Cobble-sized Rock fragments; platy, loose  5' - 6.5' Dark yellowish brown (10YR 4/6) SANDY LOAM, 10% Gravel-sized Rock fragments, 60% Cobble-sized Rock fragments; platy, loose, moist	<b>Stratum I</b>
4		
5		
6		
7	<b>End of Test Pit @ 6.5' [bucket refusal]</b>	
8		
9		
10		
11		
12	<b>Septic Testing Results:</b>  In-Situ Percolation Test @ 4.5 feet = 13 in/hr	
13	Remolded Lab Tube Permeameter Test @ 4.5 feet = Replicate A: 1.0 in/hr; Replicate B: 0.6 in/hr	
14		
15		



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Alex Redcay  
5/24/2022

# TEST PIT LOG

**Project:** Care One Lawrenceville Septic

**Client:** T&M Associates

**Date Completed:** 5/17/2022

**Job Number:** 61-150.1

**Location:** See Test Pit Location Plan

**Test Pit Number:** STP-4

**Top of Ground Elevation:** N/A

**SHGW Elevation:** NE

**Groundwater Elevation:** NE

**Topo Est:**      **Field Survey:**     

Depth (ft)	Soil Description	Remarks
1	0' - 0.7' Dark yellowish brown (10YR 4/4) SANDY LOAM; subangular blocky, friable; common, fine to coarse roots	<b>Topsoil</b>
2	0.6' - 2' Yellowish brown (10YR 5/6) CLAY LOAM, 20% Gravel-sized Rock fragments; subangular blocky, friable	<b>Stratum I</b>
3	2' - 4' Yellowish brown (10YR 5/6) LOAM, 20% Gravel-sized Rock fragments, 45% Cobble-sized Rock fragments; subangular blocky, friable	<b>Stratum II</b>
4		
5	4' - 4.5' Yellowish brown (10YR 5/6) LOAM, 15% Gravel-sized Rock fragments, 70% Cobble-sized Rock fragments; subangular blocky, friable, moist	
6	<b>End of Test Pit @ 4.5' [bucket refusal]</b>	
7		
8		
9		
10		
11		
12		
13		
14		
15		



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