

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ON-LOT DISPOSAL OF SEWAGE

Application No. _____ Municipality Plainfield Township County Northampton
 Site Location Lot 22- Probe 112 & 154 Subdivision Name Estates at Colony Park
 SUITABLE Soil Type CmB Slope 3-8% Depth to Limiting Zone 43" Ave. Perc. Rate 8.12
 UNSUITABLE Mottling Seeps or Pounded Water Bedrock Fractures Coarse Fragments Perc. Rate
 Slope Unstabilized Fill Floodplain Other _____

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE

SOILS DESCRIPTION: Terra Technologies
 Soils Description Completed By: Peter M. Volpinari, P.G. Date: 8/23/05

| | Inches | | Description of Horizon | | Probe 112 |
|-----------|--------|-----------|--|-------------------------|-----------|
| <u>0</u> | TO | <u>14</u> | <u>Topsoil</u> | | |
| | | | <u>Light brown silt loam, slightly sticky, slightly plastic, friable, SAB, 20% C.F</u> | | |
| <u>14</u> | TO | <u>28</u> | <u>Red brown silty clay loam, slightly sticky, slightly plastic, firm, SAB, 20% C.F.</u> | | |
| <u>28</u> | TO | <u>80</u> | <u>Red brown silty clay loam, slightly sticky, slightly plastic, firm, SAB, 20% C.F.</u> | Depth to Limiting Zone: | |
| | TO | | <u>No L.Z. to 80"</u> | <u>43</u> Inches | |
| | TO | | | | |

Probe 154 (9/9/05) - L.Z. = 43" to mottling

PERCOLATION TEST: Terra Technologies
 Percolation Test Completed By: Peter M. Volpinari, P.G. Date: 12/15/05

Weather Conditions: Below 40 F 40 F or Above Dry Rain, Sleet, Snow (last 24 Hours)
 Soil Conditions: Wet Dry Frozen

| Hole Number | *** Yes/No | Reading Interval | Reading No.1: Inches of drop | Reading No.2: Inches of drop | Reading No.3: Inches of drop | Reading No.4: Inches of drop | Reading No.5: Inches of drop | Reading No.6: Inches of drop | Reading No.7: Inches of drop | Reading No.8: Inches of drop |
|-------------|---------------|------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------|------------------------------|
| 1 | NO | 10 | 3.250 | 3.000 | 2.625 | 2.500 | 2.625 | 2.625 | | |
| 2 | YES | 30 | 1.625 | 1.625 | 1.625 | 1.625 | | | | |
| 3 | YES | 30 | 3.875 | 3.625 | 3.625 | 3.500 | 3.875 | 3.500 | 3.500 | 3.250 |
| 4 | NO | 10 | 2.750 | 2.500 | 2.375 | 2.250 | 2.375 | | | |
| 5 | YES | 30 | 5.000 | 4.750 | 4.250 | 4.000 | 4.250 | 3.625 | 3.750 | 3.500 |
| 6 | NO | 10 | 2.500 | 2.375 | 2.125 | 2.250 | 2.250 | | | |

*** Water remaining in the hole at the end of the final 30 minute presoak? Yes, use 30 minute interval; No use 10 minute interval

Calculation of Average Percolation rate:

| Hole No. | Drop during final period | Perc Rate as Min./Inch | Depth of Hole |
|----------------------|--------------------------|------------------------|---------------|
| 1 | 2.625 | 3.81 | 20" |
| 2 | 1.625 | 18.46 | 20" |
| 3 | 3.250 | 9.23 | 20" |
| 4 | 2.375 | 4.21 | 20" |
| 5 | 3.500 | 8.57 | 20" |
| 6 | 2.250 | 4.44 | 20" |
| Total of Min / In → | | 48.73 | |
| Total No. of Holes → | | 6 | 8.12 Min/inch |

The information provided is the true and correct results of tests conducted by me, performed under my personal supervision, or confirmed in a manor approved by the department.

(S) Sewage Enforcement Officer

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ON-LOT DISPOSAL OF SEWAGE

Application No. _____ Municipality Plainfield Township County Northampton
 Site Location Lot 22- Probe 112 & 111 Subdivision Name Estates at Colony Park
 SUITABLE Soil Type BoB Slope 3-8% Depth to Limiting Zone 80" Ave. Perc. Rate 6.24
 UNSUITABLE Motting Seeps or Ponded Water Bedrock Fractures Coarse Fragments Perc. Rate
 Slope Unstabilized Fill Floodplain Other _____

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE

SOILS DESCRIPTION: Terra Technologies
 Soils Description Completed By: Peter M. Volpinari, P.G. Date: 8/23/05

| | Inches | | Description of Horizon | Probe 112 |
|--|--------|----------|--|--|
| | 0 | TO 14 | <u>Topsoil</u> | |
| | 14 | TO 28 | <u>Light brown silt loam, slightly sticky, slightly plastic, friable, SAB, 20% C.F.</u> | |
| | 28 | TO 80 | <u>Red brown silty clay loam, slightly sticky, slightly plastic, firm, SAB, 20% C.F.</u> | |
| | | TO _____ | <u>No L.Z. to 80"</u> | Depth to Limiting Zone: <u>80</u> Inches |
| | | TO _____ | | |

Probe 111 (8/23/05) - No L.Z. to 90"

PERCOLATION TEST: Terra Technologies
 Percolation Test Completed By: Peter M. Volpinari, P.G. Date: 12/15/05

Weather Conditions: Below 40 F 40 F or Above Dry Rain, Sleet, Snow (last 24 Hours)
 Soil Conditions: Wet Dry Frozen

| Hole Number | *** Yes/No | Reading Interval | Reading No.1: Inches of drop | Reading No.2: Inches of drop | Reading No.3: Inches of drop | Reading No.4: Inches of drop | Reading No.5: Inches of drop | Reading No.6: Inches of drop | Reading No.7: Inches of drop | Reading No.8: Inches of drop |
|-------------|---------------|------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------|------------------------------|
| 1 | NO | 10 | 3.250 | 3.125 | 2.875 | 2.750 | 2.750 | 2.625 | | |
| 2 | NO | 10 | 4.625 | 4.375 | 4.375 | 4.125 | 4.250 | | | |
| 3 | NO | 10 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 | 6.000 |
| 4 | YES | 30 | 2.000 | 2.000 | 1.875 | 1.875 | | | | |
| 5 | YES | 30 | 4.875 | 4.750 | 4.375 | 4.125 | 4.250 | 3.875 | 4.000 | 3.750 |
| 6 | YES | 30 | 5.000 | 4.750 | 4.625 | 4.500 | 4.875 | 4.250 | 4.500 | 4.125 |

*** Water remaining in the hole at the end of the final 30 minute presoak? Yes, use 30 minute interval; No use 10 minute interval

Calculation of Average Percolation rate:

NOTE: 8 hole test

| Hole No. | Drop during final period | Perc Rate as Min./Inch | Depth of Hole |
|----------------------|--------------------------|------------------------|---------------|
| 1 | 2.625 | 3.81 | 24" |
| 2 | 4.250 | 2.35 | 24" |
| 3 | 6.000 | | 24" |
| 4 | 1.875 | 16.00 | 24" |
| 5 | 3.750 | 8.00 | 24" |
| 6 | 4.125 | 7.27 | 24" |
| Total of Min / In → | | 43.65 | |
| Total No. of Holes → | | 7 | 6.24 Min/Inch |

The information provided is the true and correct results of tests conducted by me, performed under my personal supervision, or confirmed in a manner approved by the department.

(S)
 Sewage Enforcement Officer

SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ON-LOT DISPOSAL OF SEWAGE

Application No. _____ Municipality Plainfield Township County Northampton
 Site Location Lot 22- Probe 111 & 112 Subdivision Name Estates at Colony Park
 SUITABLE Soil Type BoB Slope 3-8% Depth to Limiting Zone 80" Ave. Perc. Rate 6.24
 UNSUITABLE Mottling Seeps or Pounded Water Bedrock Fractures Coarse Fragments Perc. Rate
 Slope Unstabilized Fill Floodplain Other _____

INSTRUCTIONS FOR COMPLETION OF THIS FORM ARE LOCATED ON THE REVERSE

SOILS DESCRIPTION: Terra Technologies
 Soils Description Completed By: Peter M. Volpinari, P.G. Date: 8/23/05

| Inches | | | Description of Horizon | | Probe 112 |
|---|----|-----------|--|-------------------------|-----------|
| <u>0</u> | TO | <u>14</u> | <u>Topsoil</u> | | |
| <u>14</u> | TO | <u>28</u> | <u>Light brown silt loam, slightly sticky, slightly plastic, friable, SAB, 20% C.F.</u> | | |
| <u>28</u> | TO | <u>80</u> | <u>Red brown silty clay loam, slightly sticky, slightly plastic, firm, SAB, 20% C.F.</u> | | |
| | TO | | <u>No L.Z. to 80"</u> | Depth to Limiting Zone: | |
| | TO | | | <u>80</u> Inches | |
| <u>Probe 111 (8/23/05) - No L.Z. to 90"</u> | | | | | |

PERCOLATION TEST: Terra Technologies
 Percolation Test Completed By: Peter M. Volpinari, P.G. Date: 12/15/05

Weather Conditions: Below 40 F 40 F or Above Dry Rain, Sleet, Snow (last 24 Hours)
 Soil Conditions: Wet Dry Frozen

| Hole Number | *** Yes/No | Reading Interval | Reading No. 1: Inches of drop | Reading No. 2: Inches of drop | Reading No. 3: Inches of drop | Reading No. 4: Inches of drop | Reading No. 5: Inches of drop | Reading No. 6: Inches of drop | Reading No. 7: Inches of drop | Reading No. 8: Inches of drop |
|-------------|---------------|---------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------------|-------------------------------------|
| 1 | NO | 10 | 5.750 | 5.625 | 5.375 | 5.375 | 5.000 | 6.000 | 4.500 | 4.500 |
| 2 | NO | 10 | 3.250 | 3.125 | 2.875 | 3.000 | 2.625 | 4.625 | 2.375 | 2.500 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

*** Water remaining in the hole at the end of the final 30 minute presoak? Yes, use 30 minute interval; No use 10 minute interval

Calculation of Average Percolation rate:

NOTE: 8 hole test

| Hole No. | Drop during final period | Perc Rate as Min./ Inch | Depth of Hole |
|--------------------|--------------------------------|-------------------------------|------------------|
| 1 | 4.500 | 2.22 | 24" |
| 2 | 2.500 | 4.00 | 24" |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Total of Min / In | → 43.65 | | |
| Total No. of Holes | → 7 | 6.24 | Min/Inch |

The information provided is the true and correct results of tests conducted by me, performed under my personal supervision, or confirmed in a manor approved by the department.

(S) *[Signature]*
 Sewage Enforcement Officer