

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

Application No. \_\_\_\_\_ Municipality Plainfield Township County Northampton  
 Site Location Lot 17 - Probes 102 & 192 Subdivision Name Estates at Colony Park  
 SUITABLE Soil Type BoB Slope 3-8% Depth to Limiting Zone 20' Ave. Perc. Rate 9.60  
 UNSUITABLE  Mottling  Seeps or Poned 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: 2/17/2006

|  | Inches |    | Description of Horizon  | Probe 192               |
|--|--------|----|---|-------------------------|
|  | 0      | TO | 9   |                         |
|  |        |    | <u>Topsoil</u>  |                         |
|  | 9      | TO | 20  |                         |
|  |        |    | <u>Medium brown silt loam, slightly sticky, slightly plastic, friable, SAB, 20% C.F</u> |                         |
|  |        | TO |   | Depth to Limiting Zone: |
|  |        | TO | <u>Mottling at 20'</u>  | <u>20</u> Inches        |
|  |        | TO |   |                         |

Probe 102 (8/23/05) - L.Z. = 28" to mottling

PERCOLATION TEST: Terra Technologies  
 Percolation Test Completed By: Peter M. Volpinari, P.G. Date: 12/8/2005

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

| Hole Number | ***<br>Yes/No | Reading Interval | Reading No.1:<br>Inches of drop | Reading No.2:<br>Inches of drop | Reading No.3:<br>Inches of drop | Reading No.4:<br>Inches of drop | Reading No.5:<br>Inches of drop | Reading No.6:<br>Inches of drop | Reading No.7: Inches<br>of drop | Reading No.8: Inches<br>of drop |
|-------------|---------------|------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 1           | YES           | 30               | 1.750                           | 1.750                           | 1.625                           | 1.625                           |                                 |                                 |                                 |                                 |
| 2           | YES           | 30               | 5.500                           | 5.250                           | 5.250                           | 4.875                           | 4.875                           | 4.625                           | 4.750                           |                                 |
| 3           | NO            | 10               | 3.750                           | 3.500                           | 3.500                           | 3.500                           |                                 |                                 |                                 |                                 |
| 4           | YES           | 30               | 5.125                           | 4.875                           | 6.000                           | 4.000                           | 3.875                           | 4.125                           | 4.000                           |                                 |
| 5           | NO            | 10               | 3.625                           | 2.750                           | 2.875                           | 2.625                           | 2.375                           | 2.250                           | 2.375                           | 2.500                           |
| 6           | YES           | 30               | 1.875                           | 1.625                           | 1.625                           | 1.500                           | 1.625                           |                                 |                                 |                                 |

\*\*\* 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                    | 1.625                    | 18.46                  | 20"           |
| 2                    | 4.750                    | 6.32                   | 20"           |
| 3                    | 3.500                    | 2.86                   | 20"           |
| 4                    | 4.000                    | 7.50                   | 20"           |
| 5                    | 2.500                    | 4.00                   | 20"           |
| 6                    | 1.625                    | 18.46                  | 20"           |
| Total of Min / In →  |                          | 57.60                  |               |
| Total No. of Holes → |                          | 6                      | 9.60 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) *Peter M. Volpinari*  
 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 17 - Probes 101 & 102 Subdivision Name Estates at Colony Park  
 SUITABLE Soil Type CmB Slope 3-8% Depth to Limiting Zone 28" Ave. Perc. Rate 61.00  
 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 102         |
|-----------|--------|-----------|--|-------------------------|-------------------|
| <u>0</u>  | TO     | <u>7</u>  | <u>Topsail</u>   |                         |                   |
| <u>7</u>  | TO     | <u>18</u> | <u>Light brown silt loam, slightly sticky, slightly plastic, friable, SAB, 10% C.F</u> |                         |                   |
| <u>18</u> | TO     | <u>45</u> | <u>Light brown silt loam, slightly sticky, slightly plastic, friable, SAB, 10% C.F</u> |                         |                   |
|           | TO     |           | <u>Mottling at 28"</u>   | Depth to Limiting Zone: | <u>28"</u> Inches |
|           | TO     |           |  |                         |                   |

Probe 101 (8/23/05) - L.Z. = 31" to mottling

PERCOLATION TEST: Terra Technologies  
 Percolation Test Completed By: Peter M. Volpinari, P.G. Date: 1/27/06

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

| Hole Number | ***<br>Yes/No | Reading<br>Interval | Reading No.1:<br>Inches of drop | Reading No.2:<br>Inches of drop | Reading No.3:<br>Inches of drop | Reading No.4:<br>Inches of drop | Reading No.5:<br>Inches of drop | Reading No.6:<br>Inches of drop | Reading<br>No.7: Inches<br>of drop | Reading<br>No.8: Inches<br>of drop |
|-------------|---------------|---------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------------|------------------------------------|
| 1           | YES           | 30                  | 0.250                           | 0.250                           | 0.250                           | 0.250                           |                                 |                                 |                                    |                                    |
| 2           | YES           | 30                  | 0.500                           | 0.500                           | 0.500                           | 0.375                           |                                 |                                 |                                    |                                    |
| 3           | YES           | 30                  | 0.750                           | 0.750                           | 0.750                           | 0.625                           |                                 |                                 |                                    |                                    |
| 4           | YES           | 30                  | 1.125                           | 1.125                           | 1.125                           | 1.000                           |                                 |                                 |                                    |                                    |
| 5           | YES           | 30                  | 0.875                           | 0.750                           | 0.750                           | 0.750                           |                                 |                                 |                                    |                                    |
| 6           | YES           | 30                  | 0.625                           | 0.750                           | 0.625                           | 0.625                           |                                 |                                 |                                    |                                    |

\*\*\* 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                    | 0.250                    | 120.00                 | 20"            |
| 2                    | 0.375                    | 80.00                  | 20"            |
| 3                    | 0.625                    | 48.00                  | 20"            |
| 4                    | 1.000                    | 30.00                  | 20"            |
| 5                    | 0.750                    | 40.00                  | 20"            |
| 6                    | 0.625                    | 48.00                  | 20"            |
| Total of Min / In →  |                          | 366.00                 |                |
| Total No. of Holes → |                          | 6                      | 61.00 Min/Inch |

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(S) *Peter M. Volpinari*  
 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 17 - Probes 102 & 149 Subdivision Name Estates at Colony Park  
 SUITABLE Soil Type BoB Slope 3-8% Depth to Limiting Zone 22" Ave. Perc. Rate 87.07  
 UNSUITABLE  Mottling  Seeps or Pooled 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 102 |
|-----------|--------|-----------|---|-------------------------|-----------|
| <u>0</u>  | TO     | <u>7</u>  | <u>Topsail</u>  |                         |           |
|           |        |           | <u>Light brown silt loam, slightly sticky, slightly plastic, friable, SAB, 10% C.F.</u> |                         |           |
| <u>7</u>  | TO     | <u>18</u> | <u>Light brown silt loam, slightly sticky, slightly plastic, friable, SAB, 10% C.F.</u> |                         |           |
| <u>18</u> | TO     | <u>45</u> | <u>Light brown silt loam, slightly sticky, slightly plastic, friable, SAB, 10% C.F.</u> |                         |           |
|           |        |           | <u>Mottling at 28"</u>  | Depth to Limiting Zone: |           |
|           |        |           |   | <u>22"</u>              | Inches    |
|           |        |           |   |                         |           |
|           |        |           |   |                         |           |

Probe 149 (9/9/05) - L.Z. = 22" to mottling

PERCOLATION TEST: Terra Technologies  
 Percolation Test Completed By: Peter M. Volpinari, P.G. Date: 1/20/06

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

| Hole Number | ***<br>Yes/No | Reading<br>Interval | Reading No.1:<br>Inches of drop | Reading No.2:<br>Inches of drop | Reading No.3:<br>Inches of drop | Reading No.4:<br>Inches of drop | Reading No.5:<br>Inches of drop | Reading No.6:<br>Inches of drop | Reading<br>No.7: Inches<br>of drop | Reading<br>No.8: Inches<br>of drop |
|-------------|---------------|---------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|------------------------------------|------------------------------------|
| 1           | YES           | 30                  | 0.125                           | 0.125                           | 0.125                           | 0.125                           |                                 |                                 |                                    |                                    |
| 2           | YES           | 30                  | 5.125                           | 5.125                           | 4.875                           | 4.875                           |                                 |                                 |                                    |                                    |
| 3           | NO            | 10                  | 2.500                           | 2.500                           | 2.875                           | 2.500                           | 2.500                           | 2.375                           | 2.500                              |                                    |
| 4           | YES           | 30                  | 3.625                           | 3.875                           | 3.625                           | 3.625                           |                                 |                                 |                                    |                                    |
| 5           | YES           | 30                  | 1.500                           | 1.500                           | 1.375                           | 1.250                           |                                 |                                 |                                    |                                    |
| 6           | YES           | 30                  | 0.125                           | 0.125                           | 0.125                           | 0.125                           |                                 |                                 |                                    |                                    |

\*\*\* 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:**

| Hole No.             | Drop<br>during final<br>period | Perc Rate<br>as Min./<br>Inch | Depth of<br>Hole |
|----------------------|--------------------------------|-------------------------------|------------------|
| 1                    | 0.125                          | 240.00                        | 20"              |
| 2                    | 4.875                          | 6.15                          | 20"              |
| 3                    | 2.500                          | 4.00                          | 20"              |
| 4                    | 3.625                          | 8.28                          | 20"              |
| 5                    | 1.250                          | 24.00                         | 20"              |
| 6                    | 0.125                          | 240.00                        | 20"              |
| Total of Min / In →  |                                | 522.43                        |                  |
| Total No. of Holes → |                                | 6                             | 87.07 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