

# ***SOUTH JERSEY ENGINEERS, L.L.C.***

## **Septic System Design & Engineering**

P.O. Box 1406 • Voorhees, N.J. 08043 • 1-856-651-9050 • 1-856-651-9051 (fax) • [engineer@septics.com](mailto:engineer@septics.com)

Sandford Mersky, P.E.  
Vincent Gioffre, NJDEP Licensed Operator (Wastewater)  
Nicholas Bielecki, P.E., NJDEP Licensed Operator (Wastewater)

October 08, 2025

CLIENT: William H. Nicholson Associates, P.A.  
PROJECT: 57 Cunningham Lane  
Block 524.05 / Lot 3  
Cherry Hill Township, Camden County, New Jersey  
REQUIREMENT: Subsurface Exploration (Test Pit)  
ATTENTION:

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### **PURPOSE**

The purpose of this report is to present the findings pertaining to the subsurface explorations (test pits) performed at the above project.

### **INVESTIGATION**

A representative from South Jersey Engineers LLC was present on October 8<sup>th</sup> of 2025 to witness the excavation of four (4) un-surveyed test pit for the proposed stormwater management basins. The objective was to ascertain the following: establish soil profile logs, estimate the seasonal high-water table, and record groundwater levels if encountered. In addition, soil samples were obtained and returned to our office for analytical testing.

### **FINDINGS**

The in-situ soils encountered during the subsurface explorations consisted primarily of sandy Loam. Refer to the attached soil profile log for more detailed descriptions.

## **QUALIFICATIONS**

Conclusions are based on the above investigations and findings. No other conclusions are to be drawn other than those specifically stated. Our conclusions are based on the subsurface conditions as revealed by the test pit. The report does not reflect any variations, which may be encountered during construction. We should be informed immediately of such conditions so that we may modify our findings and conclusions, if necessary.

South Jersey Engineers, LLC will not be responsible for variations in subsurface soils encountered in areas other than those tested.

Respectfully,

South Jersey Engineers, L.L.C.

### **Test Pit #1**

<b>Depth</b>	<b>Description</b>
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0" – 11" 10YR 4/3 Sandy loam, Sub-angular blocky, Friable

11" – 47" 7.5YR 5/4 Sandy clay loam, Sub-angular blocky, Friable

47" – 66" 7.5YR 7/3 Sandy clay loam, Sub-angular blocky, Friable

66" – 85" 7.5YR 5/6 Sandy loam, Sub-angular blocky, Friable  
With Common, Medium, Distinct 5YR 4/6 mottles @ 70"

85" – 127" 7.5YR 7/3 fine Loamy sand, Sub-angular blocky, Friable

127" – 144" 7.5YR 7/1 fine Sand, Sub-angular blocky, Friable

Samples acquired @ 36", 58", 68", 112", & 135"

Groundwater Not Encountered

Estimated Seasonal High Water Table – 70"

### **Test Pit #2**

<b>Depth</b>	<b>Description</b>
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0" – 10" 10YR 4/3 Sandy loam, Sub-angular blocky, Friable

10" – 29" 7.5YR 5/4 Sandy clay loam, Sub-angular blocky, Friable

29" – 54" 7.5YR 7/3 Sandy clay loam, Sub-angular blocky, Friable

54" – 65" 7.5YR 5/6 Sandy loam, Sub-angular blocky, Friable  
With Common, Medium, Distinct 5YR 4/6 mottles @ 62"

65" – 120" 7.5YR 7/1 fine Loamy sand, Sub-angular blocky, Friable

120" – 144" 7.5YR 7/1 fine Sandy clay loam, Sub-angular blocky, Friable

Samples acquired @ 20", 39", 60", 89", & 138"

Groundwater Not Encountered

Estimated Seasonal High Water Table – 62"

### Test Pit #3

Depth	Description
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0" – 11" 10YR 4/3 Sandy loam, Sub-angular blocky, Friable

11" – 27" 7.5YR 5/4 Sandy clay loam, Sub-angular blocky, Friable

27" – 47" 7.5YR 7/3 Sandy clay loam, Sub-angular blocky, Friable  
With Common, Medium, Distinct 5YR 4/6 mottles @ 46"

47" – 83" 7.5YR 7/1 fine Loamy sand, Sub-angular blocky, Friable

83" – 100" 7.5YR 7/1 fine Sandy clay loam, Sub-angular blocky, Friable

100" – 144" 7.5YR 5/8 Sandy clay, Angular blocky, Firm (HR)

Samples acquired @ 21", 34", 66", 93", & 130"

Groundwater Not Encountered

Estimated Seasonal High Water Table – 46"

### Test Pit #4

Depth	Description
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0" – 12" 10YR 4/3 Sandy loam, Sub-angular blocky, Friable

12" – 37" 7.5YR 5/4 Sandy clay loam, Sub-angular blocky, Friable

37" – 57" 7.5YR 7/3 Sandy clay loam, Sub-angular blocky, Friable

57" – 84" 7.5YR 5/6 Sandy loam, Sub-angular blocky, Friable  
With Common, Medium, Distinct 5YR 4/6 mottles @ 68"

84" – 113" 7.5YR 7/1 fine Loamy sand, Sub-angular blocky, Friable

113" – 144" 7.5YR 6/6 fine Sandy loam, Sub-angular blocky, Friable

Samples acquired @ 30", 45", 68", 98", & 127"

Groundwater Not Encountered

Estimated Seasonal High Water Table – 68"



2

CUNNINGHAM

524.05

3

27' elevation decrease

TP4

TP2

TP3

4  
1 Acre

119.91'

310.92'

191.01'

48.44'

53'(S)

95'

110'(S)

185.40'

190'

205.00'

163'(S)

50'

40'(S)

90'(S)

135'(S)

1 Acre