

SOIL TEST REPORT

FOR

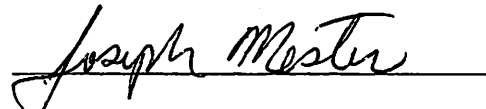
**SYNNERGY, LLC
SWEET BRIAR AVENUE
LOT 27, BLOCK 1581**

IN

**TOWNSHIP OF HAMILTON
MERCER COUNTY, NEW JERSEY**

BY

**TRENTON ENGINEERING CO., INC.
2193 SPRUCE STREET
EWING, NEW JERSEY
January 25, 2018**

A handwritten signature in cursive script that reads "Joseph Mester". The signature is written in black ink and is positioned above a solid horizontal line.

**JOSEPH MESTER, PE, PLS #19462
PROJECT ENGINEER**

COUNTY/MUNICIPALITY Mercer / Hamilton

APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR Block 1581

AN INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM Lot 27

FORM 2B - SOIL LOG AND INTERPRETATION:

1. Log Number 1 Method (Check one): Profile pit Boring

2. Soil Log 1 Performed 1/15/18
Munsell Color Name and Symbol; Estimated Text Class; Estimated Volume %
Depth (Inches) Coarse Fragments, If Present; Structure; Moist or Dry Consistence; Mottling
Top to bottom Abundance, Size and Contrast, If Present

- 0 - 8" 10YR 3/3 Dark brown silt loam topsoil.
8 - 30" 10YR 4/4 Dark yellowish brown sandy loam. WSAB, moist, friable.
30 - 64" 10YR 5/2 Grayish brown sandy loam. WSAB, moist, friable. Common medium distinct mottles of 10YR 7/1 (light gray) @ 30-64".
> 64" Coarse sand and gravel. GW at 64"

3. **Ground Water Observations:**

Seepage - Indicate Depth 64"
 Pit/Boring Flooded - Depth after _____ Hours _____

4. **Soil Limiting Zones (Check Appropriate Categories)**

Fractured Rock Substratum - Depth to Top _____
 Massive Rock Substratum - Depth to Top _____
 Excessively Coarse Horizon - Depth Top to Bottom _____
 Excessively Coarse Substratum - Depth Top to Bottom _____
 Hydraulically Restrictive Horizon - Depth Top to Bottom _____
 Hydraulically Restrictive Substratum - Depth to Top _____
 Perched Zone of Saturation - Depth to Top _____
 Regional Zone of saturation - Depth to Top 30"

5. **Soil Suitability Classification: IIWr**

6. I hereby certify that the information furnished on form 2B of this application is true and accurate. I am aware that the falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A *et seq.*) and is subject to penalties as prescribed in N.J.A.C. 7:14-8.

Signature of Site Evaluator John Luyber Date 1/15/18

Signature of Professional Engineer Joseph Mestur License # 19462

COUNTY/MUNICIPALITY Mercer / Hamilton

APPLICATION FOR PERMIT TO CONSTRUCT/ALTER/REPAIR

Block 1581

AN INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM

Lot 27

FORM 2B - SOIL LOG AND INTERPRETATION:

1. Log Number 2 Method (Check one): Profile pit Boring

2. Soil Log 2 Performed 1/15/18
Munsell Color Name and Symbol; Estimated Text Class; Estimated Volume %
Depth (Inches) Coarse Fragments, If Present; Structure; Moist or Dry Consistence; Mottling
Top to bottom Abundance, Size and Contrast, If Present

0 - 8" 10YR 3/3 Dark brown silt loam topsoil.
8 - 45" 7.5YR 6/6 Reddish yellow silty clay loam. MSAB, moist, firm.
45 - 96" 10YR 7/2 Light gray loamy sand. Single grained, loose, wet.
> 96" Stopped test GW @ 84"

3. **Ground Water Observations:**

Seepage - Indicate Depth 84"
 Pit/Boring Flooded - Depth after _____ Hours _____

4. **Soil Limiting Zones (Check Appropriate Categories)**

Fractured Rock Substratum - Depth to Top _____
 Massive Rock Substratum - Depth to Top _____
 Excessively Coarse Horizon - Depth Top to Bottom _____
 Excessively Coarse Substratum - Depth Top to Bottom _____
 Hydraulically Restrictive Horizon - Depth Top to Bottom 8-45"
 Hydraulically Restrictive Substratum - Depth to Top _____
 Perched Zone of Saturation - Depth to Top _____
 Regional Zone of saturation - Depth to Top 45"

5. **Soil Suitability Classification: IIIHr, IIWr**

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Block 1581

AN INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM

Lot 27

FORM 2B - SOIL LOG AND INTERPRETATION:

1. Log Number 3 Method (Check one): Profile pit Boring

2. Soil Log 3 Performed 1/15/18

Depth (Inches) Munsell Color Name and Symbol; Estimated Text Class; Estimated Volume %
Top to bottom Coarse Fragments, If Present; Structure; Moist or Dry Consistence; Mottling
Abundance, Size and Contrast, If Present

- 0 - 8" 10YR 3/3 Dark brown silt loam topsoil.
8 - 40" 7.5YR 6/6 Reddish yellow silty clay loam. MSAB, moist, firm.
40 - 108" 10YR 4/4 Dark yellowish brown sandy loam. WSAB, moist, friable. Common medium distinct mottles of 10YR 7/2 (light gray) @ 65".
> 108" Stopped test.

3. Ground Water Observations:

Seepage - Indicate Depth _____
 Pit/Boring Flooded - Depth after _____ Hours _____

4. Soil Limiting Zones (Check Appropriate Categories)

Fractured Rock Substratum - Depth to Top _____
 Massive Rock Substratum - Depth to Top _____
 Excessively Coarse Horizon - Depth Top to Bottom _____
 Excessively Coarse Substratum - Depth Top to Bottom _____
 Hydraulically Restrictive Horizon - Depth Top to Bottom 8 - 40"
 Hydraulically Restrictive Substratum - Depth to Top _____
 Perched Zone of Saturation - Depth to Top _____
 Regional Zone of saturation - Depth to Top 65"

5. Soil Suitability Classification: IIIHr

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Lot 27

FORM 2B - SOIL LOG AND INTERPRETATION:

1. Log Number 4 Method (Check one): Profile pit Boring

2. Soil Log 4 Performed 1/15/18

Depth (Inches) Munsell Color Name and Symbol; Estimated Text Class; Estimated Volume %
Top to bottom Coarse Fragments, If Present; Structure; Moist or Dry Consistence; Mottling
Abundance, Size and Contrast, If Present

0 - 8" 10YR 3/3 Dark brown silt loam topsoil.

8 - 40" 7.5YR 6/6 Reddish yellow silty clay loam. MSAB, moist, firm.

40 - 96" 10YR 4/4 Dark yellowish brown sandy loam. WSAB, moist, friable. Common medium distinct mottles of 10YR 7/2 (light gray) @ 65".

> 96" Stopped test

3. **Ground Water Observations:**

Seepage - Indicate Depth _____
 Pit/Boring Flooded - Depth after _____ Hours _____

4. **Soil Limiting Zones (Check Appropriate Categories)**

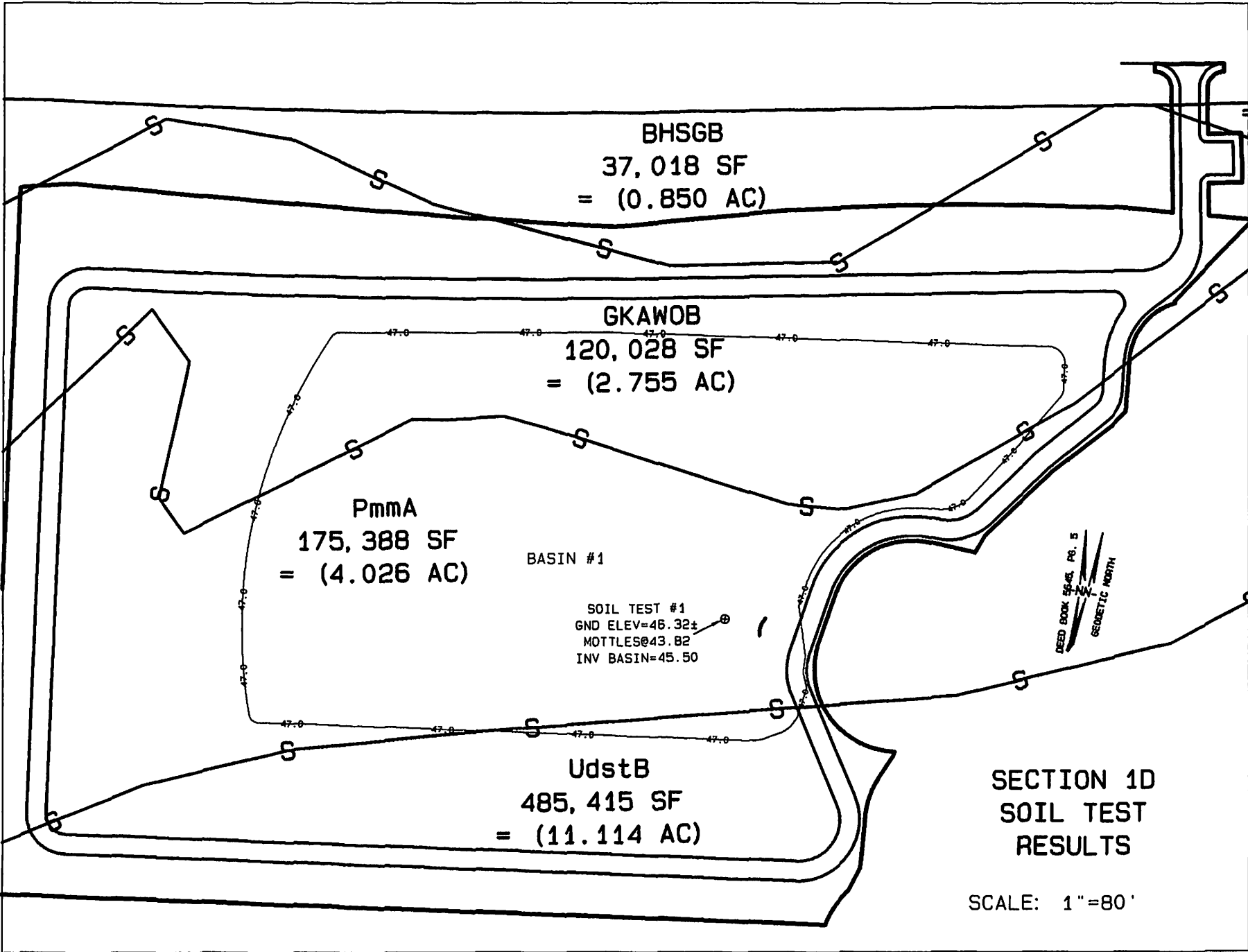
Fractured Rock Substratum - Depth to Top _____
 Massive Rock Substratum - Depth to Top _____
 Excessively Coarse Horizon - Depth Top to Bottom _____
 Excessively Coarse Substratum - Depth Top to Bottom _____
 Hydraulically Restrictive Horizon - Depth Top to Bottom 8 - 40"
 Hydraulically Restrictive Substratum - Depth to Top _____
 Perched Zone of Saturation - Depth to Top _____
 Regional Zone of saturation - Depth to Top 65"

5. **Soil Suitability Classification: IIIHr**

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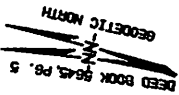
Signature of Site Evaluator John Luyber Date 1/15/18

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**SECTION 1D
SOIL TEST
RESULTS**

SCALE: 1"=80'



GadB
226,378 SF
= (5.197 AC)

SOIL TEST #2
GND ELEV=48.12±
GND WTR#41.12
INV BASIN=45.20

BASIN #2

UdstB
485,415 SF
= (11.114 AC)

SOIL TEST #3
GND ELEV=49.55±
MOTTLES#44.13
INV BASIN=47.80

BASIN #3

SOIL TEST #4
GND ELEV=48.63±
MOTTLES#43.21
INV BASIN=46.30

BASIN #4

SECTION 2D
SOIL TEST
RESULTS

UdstB
485,415 SF
= (11.114 AC)

SCALE: 1"=80'

