

GETTYSBURG ENGINEERING CO., INC.

1621 BALTIMORE PIKE

GETTYSBURG, PENNSYLVANIA 17325

ERIK M. VRANICH, P.E.
DEAN A. SHULTZ, PRESIDENT

Telephone: (717)-334-4016
Fax: (717)-334-0901

January 31, 2025

Mr. Laverne Leese
1010 Coralberry Court
Leland, NC 28451

To be picked up by John Grim
717-451-1536

Dear Mr. Leese:

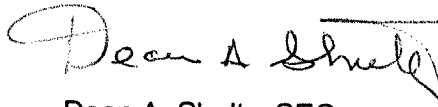
As you requested enclosed are copies of the soil reports for Lot 1 and Lot 9 of the BJML Enterprises Subdivision.

Either site on these lots can be used for the construction of a sandmound for the lot, but the site not used must be preserved as a replacement area.

One Lot 1 because of high nitrates in the ground water The Pennsylvania Department of Environmental Protection (DEP) has required that a nitrate plume easement be established on this lot (See Subdivision Plan). No impervious constructions can occur within this easement. The driveway across this easement must be constructed as shown on the Subdivision Plan.

A sewage permit can be issued upon making application at our office, providing 4 copies of the sandmound design and payment of the permit fee.

Very truly yours,



Dean A. Shultz, SEO
Union Township

DAS/jas

Enclosures: 8

ADAMS COUNTY

SITE INVESTIGATION AND PERCOLATION

TEST REPORT FOR ON-LOT DISPOSAL OF SEWAGE

Applicant BJML EnterprisesApplication No. 0526

Municipality

Union

Site Location Mehring

Subdivision Name

☒ SUITABLESoil Type Fill Material Slope 2 % Depth to Limiting Zone 40 Ave. Perc. Rate 7.47☐ UNSUITABLE☐ Mottling ☐ Seeps or Pooled Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments ☐ Perc. Rate
☐ Slope ☐ Unstabilized Fill ☐ Floodplain ☐ OtherRemarks: Fill site - Replacement Area for Probes 1 and 2
System to go between probes 3-4

SOILS DESCRIPTION:

Soils Description Completed by: Dean A. Shultz, Sewage Enforcement Officer Date: Probe July 9, 2014

Inches	Probe 3	Description of Horizon
0 - 27		Fill material, dark yellowish brown (10YR 4/6) silt loam; fine granular structure; friable; firm to medium roots; 15% coarse fragments.
27 - 36		Brown (7.5YR 4/4) silt loam; original top soil; moderate, medium subangular blocky structure; friable; 15% coarse fragments.
36 - 40		Yellowish brown (10YR 5/6) silt loam; moderate, medium subangular blocky structure; friable; 15% coarse fragments.
40 - 48		Yellowish brown schist over 80% coarse fragments.

Limiting Zone 40"

Probe 4 - similar to Probe 3

PERCOLATION TEST:

Percolation Test Completed by: Phil ScottDate: 5/17/23Weather Conditions: ☐ Below 40°F ☒ 40°F or above ☒ Dry ☐ Rain, Sleet, Snow (last 24 hours)Soil Conditions: ☐ Wet ☒ Dry ☐ Frozen

Hole No.	** 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		✓	10/30	1 1/8	1 1/4	1	1				
2	✓		10/30	2 3/8	2 3/8	2 1/2	2 1/4				
3		✓	10/30	2 5/8	2 1/2	2 1/2	2 1/2				
4		✓	10/30	1 3/8	1 3/8	1 3/8	1 1/2				
5		✓	10/30	1 5/8	1 1/2	1 3/8	1 3/8				
6		✓	10/30	2 3/4	2 3/4	2 3/4	2 7/8				

** ** Water remaining in the hole at the end of the final 30 minutes presoak?

Yes, use 30 minutes interval:

No, use 10 minute interval.

Calculation of Average Percolation Rate:

SKETCH

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	1"	10	"
2	2 1/4"	13.3	"
3	2 1/2"	4	"
4	1 1/2"	6.7	"
5	1 3/8"	7.3	"
6	2 7/8"	3.5	"

TOTAL OF MIN / IN 44.8 = 7.47 Min
TOTAL NO. OF HOLES 6 Inch

Dean A Shultz 5/17/23 do perc tests

THE INFORMATION PROVIDED IS THE TRUE AND CORRECT RESULTS OF TESTS CONDUCTED BY ME, PERFORMED UNDER MY PERSONAL SUPERVISION,
OR VERIFIED IN A MANNER APPROVED BY THE DEPARTMENT. (S) Dean A Shultz S.E.O. 7/9/14 Date

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

LOT 7

ADAMS COUNTY

Applicant BJML Enterprises

Application No. 0526

Municipality _____

Union _____

Site Location Mehring

Subdivision Name _____

☐ SUITABLE Soil Type _____ Fill Material _____ Slope 2 % Depth to Limiting Zone _____ Ave. Perc. Rate _____

☐ UNSUITABLE ☐ Mottling ☐ Seeps or Pounded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments ☐ Perc. Rate
☐ Slope ☐ Unstabilized Fill ☐ Floodplain ☐ Other _____

Remarks: Fill Site - Primary Area - Between probes 1 and 2

SOILS DESCRIPTION:

Soils Description Completed by: Dean A. Shultz, Sewage Enforcement Officer Date: July 9, 2014

Inches	Probe 2	Description of Horizon
0 - 24		Fill material, dark yellowish brown (10YR 4/6) silt loam; fine granular structure; friable; firm to medium roots; 15% coarse fragments.
24 - 32		Brown (7.5YR 4/4) silt loam; original top soil; moderate, medium subangular blocky structure; friable; 15% coarse fragments.
32 - 48		Yellowish brown (10YR 5/6) silt loam; moderate, medium subangular blocky structure; friable; 20% coarse fragments.
48+		Yellowish brown schist over 85% coarse fragments.

Limiting Zone 48"

PERCOLATION TEST:

Percolation Test Completed by: _____ Date: _____

Weather Conditions: ☐ Below 40°F ☐ 40°F or above ☐ Dry ☐ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☐ Dry ☐ Frozen

Hole No.	** 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			10 / 30								
2			10 / 30								
3			10 / 30								
4			10 / 30								
5			10 / 30								
6			10 / 30								

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

Calculation of Average Percolation Rate:

SKETCH

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	"	"	"
2	"	"	"
3	"	"	"
4	"	"	"
5	"	"	"
6	"	"	"

TOTAL OF MIN / IN _____ = _____ Min
TOTAL NO. OF HOLES _____ Inch

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

LOT 7

DAMS COUNTY

Applicant BJML Enterprises

Application No. 0526

Municipality Union

Site Location Mehring

Subdivision Name

☒ **SUITABLE**

Soil Type Fill Material Slope 2 % Depth to Limiting Zone 32" Ave. Perc. Rate 37.1

☐ **UNSUITABLE**

☐ Mottling ☐ Seeps or Pounded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments ☐ Perc. Rate
☐ Slope ☐ Unstabilized Fill ☐ Floodplain ☐ Other

Remarks: Fill Site - Primary Area. - Between probes 1 and 2

SOILS DESCRIPTION:

Soils Description Completed by: Dean A. Shultz, Sewage Enforcement Officer Date: July 9, 2014

Inches	Probe 1	Description of Horizon
0 - 23		Fill material, dark yellowish brown (10YR 4/6) silt loam; fine granular structure; friable; firm to medium roots; 15% coarse fragments.
23 - 32		Brown (7.5YR 4/4) silt loam; original top soil; moderate, medium subangular blocky structure; friable; 15% coarse fragments.
32 - 40		Yellowish brown schist over 85% coarse fragments.
Limiting Zone 32"		

PERCOLATION TEST:

Percolation Test Completed by: Phil Scott

Date: 7/11/14

Weather Conditions: ☐ Below 40°F ☒ 40°F or above ☒ Dry ☐ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☒ Dry ☐ Frozen

Hole No.	** 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		☒	10/30	2	1 7/8	1 7/8	1 7/8				
2		☒	10/30	3 1/8	3 1/8	3	3				
3	☒		10/30	3/4	3/4	1/2	1/2				
4	☒		10/30	1/4	3/8	1/4	1/4				
5		☒	10/30	5/8	3/4	3/4	3/4				
6		☒	10/30	1/2	1/2	1/2	1/2				

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

Calculation of Average Percolation Rate:

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	1 7/8 "	5.6	20 "
2	3 "	3.3	20 "
3	1/2 "	60	20 "
4	1/4 "	120	20 "
5	3/4 "	13.3	20 "
6	1/2 "	20	20 "
TOTAL OF MIN / IN			
TOTAL NO. OF HOLES			
<u>222.2 = 37.1</u>			Min Inch
<u>6</u>			

SKETCH

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

LOT 7

ADAMS COUNTY

Applicant BJML Enterprises Application No. 0526 Municipality Union
Site Location Mehring Subdivision Name

☒ SUITABLE Soil Type Fill Material Slope 2 % Depth to Limiting Zone 32' Ave. Perc. Rate 37.1
☐ UNSUITABLE ☐ Mottling ☐ Seeps or Pooled Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments ☐ Perc. Rate
☐ Slope ☐ Unstabilized Fill ☐ Floodplain ☐ Other

Remarks: Fill Site — Primary Area.

SOILS DESCRIPTION:

Soils Description Completed by: Dean A. Shultz, Sewage Enforcement Officer Date: July 9, 2014

Inches	Probe 1	Description of Horizon
0 - 23		Fill material, dark yellowish brown (10YR 4/6) silt loam; fine granular structure; friable; firm to medium roots; 15% coarse fragments.
23 - 32		Brown (7.5YR 4/4) silt loam; original top soil; moderate, medium subangular blocky structure; friable; 15% coarse fragments.
32 - 40		Yellowish brown schist over 85% coarse fragments.

Limiting Zone 32"

PERCOLATION TEST:

Percolation Test Completed by: Phil Scott Date: 7/11/14

Weather Conditions: ☐ Below 40°F ☒ 40°F or above ☒ Dry ☐ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☒ Dry ☐ Frozen

Hole 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
	Yes	No									
1		✓	10/30	2	1 7/8	1 7/8	1 7/8				
2		✓	10/30	3 1/8	3 1/8	3	3				
3	✓		10/30	3/4	3/4	1/2	1/2				
4	✓		10/30	1/4	3/8	1/4	1/4				
5		✓	10/30	5/8	3/4	3/4	3/4				
6		✓	10/30	1/2	1/2	1/2	1/2				

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

Calculation of Average Percolation Rate:

SKETCH

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	1 7/8 "	5.6	20 "
2	3 "	3.3	20 "
3	1/2 "	60	20 "
4	1/4 "	120	20 "
5	3/4 "	13.3	20 "
6	1/2 "	20	20 "

TOTAL OF MIN / IN 222.2 = 37.1 Min
TOTAL NO. OF HOLES 6 Inch

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

LOT 9

ADAMS COUNTY

Applicant BJML Enterprises Application No. 0526 Municipality _____ Union _____
 Site Location Mehring Subdivision Name _____

☐ SUITABLE Soil Type Fill Material Slope 2 % Depth to Limiting Zone _____ Ave. Perc. Rate _____
☐ UNSUITABLE ☐ Mottling ☐ Seeps or Ponded Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments ☐ Perc. Rate
☐ Slope ☐ Unstabilized Fill ☐ Floodplain ☐ Other _____

Remarks: Fill Site - Primary Area

SOILS DESCRIPTION:

Soils Description Completed by: Dean A. Shultz, Sewage Enforcement Officer Date: July 9, 2014

Inches	Probe 2	Description of Horizon
0 - 24		Fill material, dark yellowish brown (10YR 4/6) silt loam; fine granular structure; friable; firm to medium roots; 15% coarse fragments.
24 - 32		Brown (7.5YR 4/4) silt loam; original top soil; moderate, medium subangular blocky structure; friable; 15% coarse fragments.
32 - 48		Yellowish brown (10YR 5/6) silt loam; moderate, medium subangular blocky structure; friable; 20% coarse fragments.
48+		Yellowish brown schist over 85% coarse fragments.

Limiting Zone 48"

PERCOLATION TEST:

Percolation Test Completed by: _____ Date: _____

Weather Conditions: ☐ Below 40°F ☐ 40°F or above ☐ Dry ☐ Rain, Sleet, Snow (last 24 hours)Soil Conditions: ☐ Wet ☐ Dry ☐ Frozen

Hole 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
	Yes	No									
1			10 / 30								
2			10 / 30								
3			10 / 30								
4			10 / 30								
5			10 / 30								
6			10 / 30								

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

Calculation of Average Percolation Rate:

SKETCH

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	"		"
2	"		"
3	"		"
4	"		"
5	"		"
6	"		"

TOTAL OF MIN / IN _____ = _____ Min
 TOTAL NO. OF HOLES _____ Inch

THE INFORMATION PROVIDED IS THE TRUE AND CORRECT RESULTS OF TESTS CONDUCTED BY ME, PERFORMED UNDER MY PERSONAL SUPERVISION, OR VERIFIED IN A MANNER APPROVED BY THE DEPARTMENT. (S) Dean A. Shultz S.E.O. 7/9/14 Date

Lot 9 SITE INVESTIGATION AND PERCOLATION TEST REPORT FOR ON—LOT DISPOSAL OF SEWAGE

Applicant BJML Enterprises Application No. 0526 Municipality Union
 Site Location Mehring Subdivision Name _____

☐ SUITABLE Soil Type _____ Fill Material _____ Slope 2 % Depth to Limiting Zone _____ Ave. Perc. Rate _____

☐ UNSUITABLE ☐ Mottling ☐ Seeps or Pooled Water ☐ Bedrock ☐ Fractures ☐ Coarse Fragments ☐ Perc. Rate
☐ Slope ☐ Unstabilized Fill ☐ Floodplain ☐ Other _____

Remarks: Fill site - Replacement Area for Probes 1 and 2

SOILS DESCRIPTION:

Soils Description Completed by: Dean A. Shultz, Sewage Enforcement Officer Date: July 9, 2014

Inches	Probe 3	Description of Horizon
0 - 27		Fill material, dark yellowish brown (10YR 4/6) silt loam; fine granular structure; friable; firm to medium roots; 15% coarse fragments.
27 - 36		Brown (7.5YR 4/4) silt loam; original top soil; moderate, medium subangular blocky structure; friable; 15% coarse fragments.
36 - 40		Yellowish brown (10YR 5/6) silt loam; moderate, medium subangular blocky structure; friable; 15% coarse fragments.
40 - 48		Yellowish brown schist over 80% coarse fragments.

Limiting Zone 40"

Probe 4 - similar to Probe 3

PERCOLATION TEST:

Percolation Test Completed by: _____ Date: _____

Weather Conditions: ☐ Below 40°F ☐ 40°F or above ☐ Dry ☐ Rain, Sleet, Snow (last 24 hours)

Soil Conditions: ☐ Wet ☐ Dry ☐ Frozen

Hole No.	** 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			10 / 30								
2			10 / 30								
3			10 / 30								
4			10 / 30								
5			10 / 30								
6			10 / 30								

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

Calculation of Average Percolation Rate:

SKETCH

Hole No.	Drop during final period	Perc. Rate as Minutes/Inch	Depth of Hole
1	"	"	"
2	"	"	"
3	"	"	"
4	"	"	"
5	"	"	"
6	"	"	"

TOTAL OF MIN / IN _____ = _____ Min
 TOTAL NO. OF HOLES _____ Inch

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