Scale: 1"=300'

LEGEND

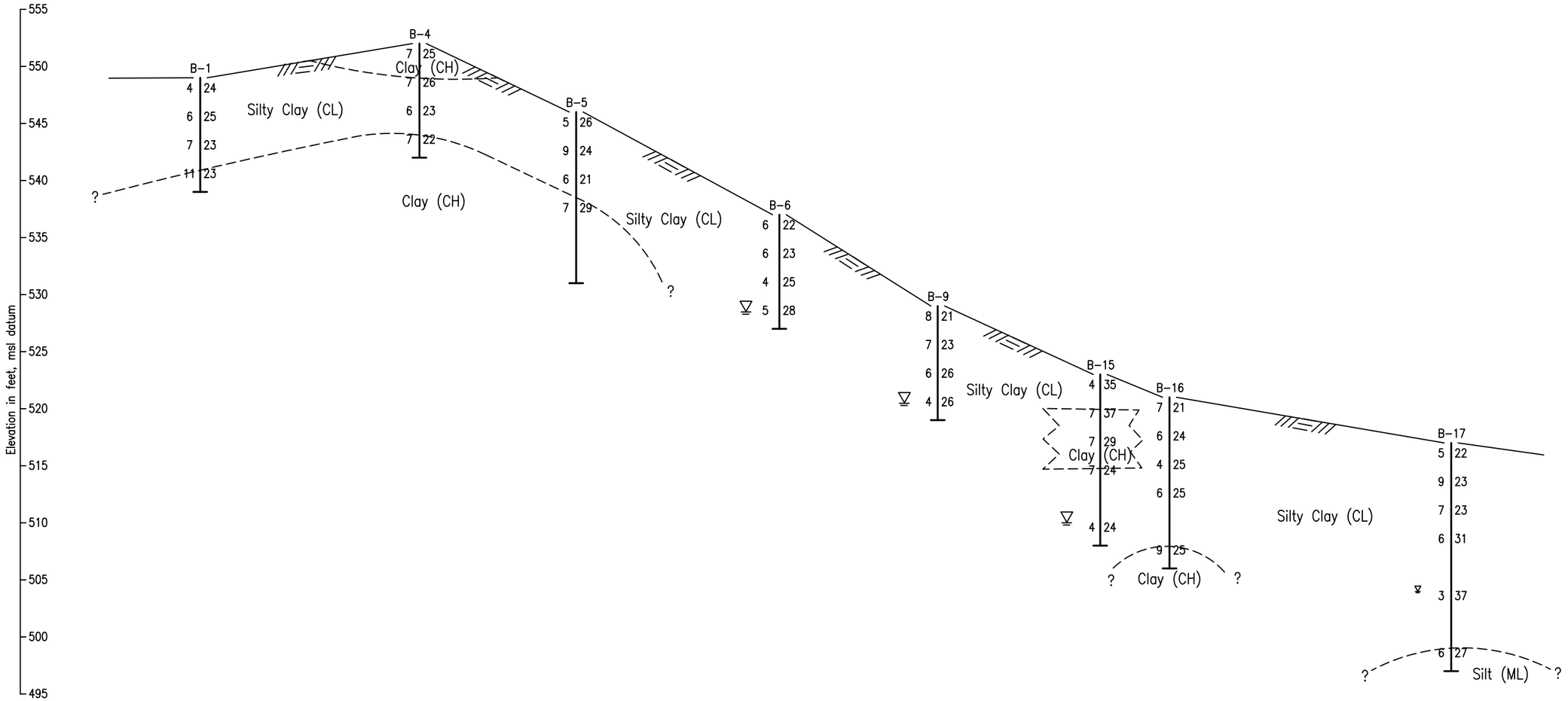
Boring location

15599

BORING PLAN
Oldenburg Industrial Park
Washington, Missouri

Figure 1

SECTION A–A



SCALES

Horizontal: 1" = 300'
Vertical: 1" = 10'

NOTES

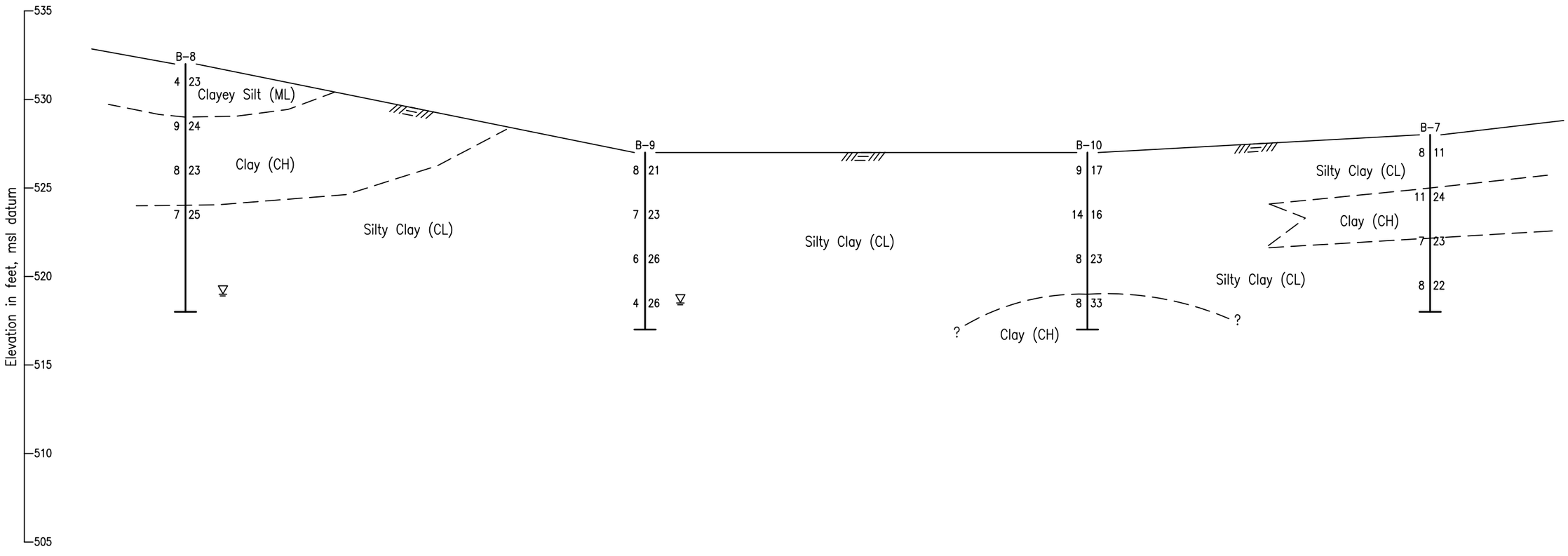
1) See Figure 1 for location of section.
2) See Figure 4 for legend.

15599

GENERALIZED SOIL PROFILE
Oldenburg Industrial Park
Washington, Missouri

Figure 2

SECTION B–B



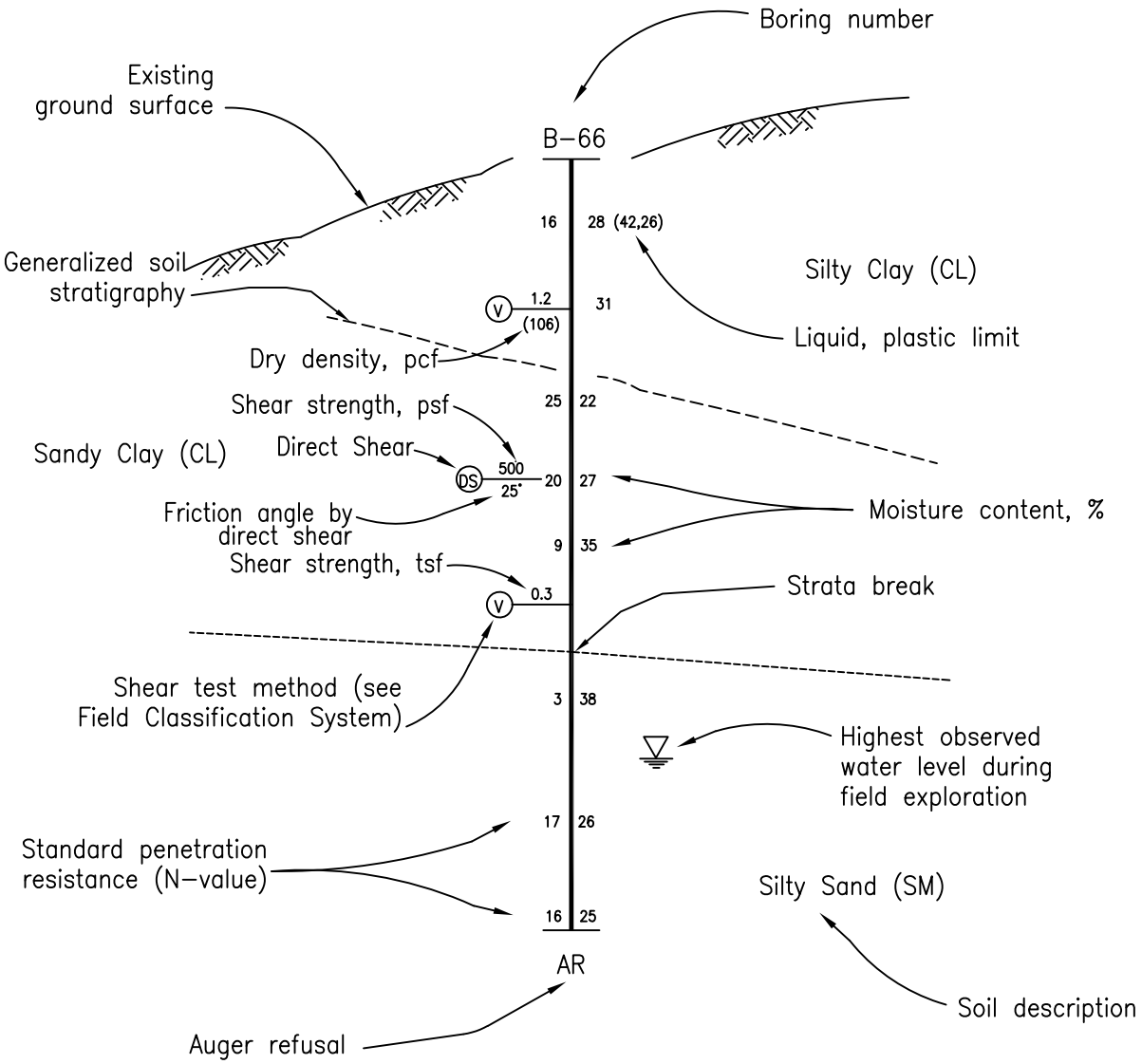
SCALES
Horizontal: 1" = 80'
Vertical: 1" = 6'

NOTES
1) See Figure 1 for location of section.
2) See Figure 4 for legend.

GENERALIZED SOIL PROFILE
Oldenburg Industrial Park
Washington, Missouri

15599

Figure 3



NOTE
This is an example and does not represent an actual boring drilled at the site.

NOT TO SCALE

15599

SOIL PROFILE LEGEND
Oldenburg Industrial Park
Washington, Missouri

Figure 4

Oldenburg Industrial Park
Washington, Missouri

LOG OF BORING 1

PROJECT NO. 15599 **DATE:** 5/10/23 **LOCATION:** See Figure 1

COMPLETION DEPTH 10 FT.
BORING METHOD CFA
ROCK CORE DIAMETER N/A IN.
SURFACE ELEVATION 549 FT.

DEPTH, FT.	STRATUM DEPTH, FT.	SPT: SPLIT SPOON / BLOWS/6 in. THREE 6-in. INCREMENTS	UNDISTURBED SAMPLE	PERCENT RECOVERY	ROCK CORE
		2 2 2			
		2 3 3			
5					
		2 3 4			
	8.0				
		4 5 6			
10					
	10.0				
15					
20					
25					
30					
35					

3 in. Topsoil
Browish-gray soft Silty Clay (CL)

- increasing clay, medium stiff below 3 feet

Reddish-brown stiff Clay (CH) with rock fragments

Boring terminated at 10 feet

Shear Strength from Indicated
1 2 3 4 5
Dry Density, pcf
90 100 110 120 130
Water Content, %
Plastic Limit — Liquid Limit
Standard Penetration Resistance, Blows/Ft.
10 20 30 40 50

WATER LEVEL OBSERVATIONS

DURING DRILLING Dry **FT.**
AT COMPLETION Dry **FT.**
AFTER HRS. **FT.**

NOTES

Elevations approximated using Google Earth

Shear Test Types - Static Cone: ● Pocket Penetrometer: ■ Unconf. Compr.: ▼ Miniature Vane: ▲ Field Vane: ◆

MIDWEST TESTING

Oldenburg Industrial Park
Washington, Missouri

LOG OF BORING 2

PROJECT NO. 15599 **DATE:** 5/10/23 **LOCATION:** See Figure 1

COMPLETION DEPTH 6 FT.
BORING METHOD CFA
ROCK CORE DIAMETER N/A IN.
SURFACE ELEVATION 587 FT.

DEPTH, FT.	STRATUM DEPTH, FT.	SPT: SPLIT SPOON / BLOWS/6 in. THREE 6-in. INCREMENTS	UNDISTURBED SAMPLE	PERCENT RECOVERY	ROCK CORE
		2 3 4			
	3.0				
5		8 7 8			
	5.0				
	6.0				
10					
15					
20					
25					
30					
35					

1 in. Topsoil
Reddish-brown medium stiff silty Clay (CL)

Reddish-brown stiff Clay (CH) with rock fragments

Weathered rock

Auger refusal at 6 feet

Shear Strength from Indicated: 1 2 3 4 5
Dry Density, pcf: 90 100 110 120 130
Water Content, %
Plastic Limit — Liquid Limit
Standard Penetration Resistance, Blows/Ft.: 10 20 30 40 50

WATER LEVEL OBSERVATIONS

DURING DRILLING Dry **FT.**
AT COMPLETION Dry **FT.**
AFTER HRS. **FT.**

NOTES

Elevations approximated using Google Earth

Shear Test Types - Static Cone: ● Pocket Penetrometer: ■ Unconf. Compr.: ▼ Miniature Vane: ▲ Field Vane: ◆

MIDWEST TESTING

Oldenburg Industrial Park
Washington, Missouri

LOG OF BORING 3

PROJECT NO. 15599 **DATE:** 5/9/23 **LOCATION:** See Figure 1

COMPLETION DEPTH 14 FT.
BORING METHOD CFA
ROCK CORE DIAMETER N/A IN.
SURFACE ELEVATION 539 FT.

DEPTH, FT.	STRATUM DEPTH, FT.	SPT: SPLIT SPOON / BLOWS/6 in. THREE 6-in. INCREMENTS	UNDISTURBED SAMPLE	PERCENT RECOVERY	ROCK CORE
0					
		2 3 4			
		8 7 8			
5					
		1 2 3			
10		2 3 3			
15	14.0				
20					
25					
30					
35					

1 in. Topsoil
Brownish-gray medium stiff Silty Clay (CL) with trace roots

- gray, stiff below 3 feet

- increasing silt, medium stiff below 6 feet

- increasing clay below 12 feet

Boring terminated at 14 feet

Shear Strength from Indicated
1 2 3 4 5
Dry Density, pcf
90 100 110 120 130
Water Content, %
Plastic Limit — Liquid Limit
Standard Penetration Resistance, Blows/Ft.
10 20 30 40 50

WATER LEVEL OBSERVATIONS

DURING DRILLING Dry **FT.**
AT COMPLETION Dry **FT.**
AFTER HRS. **FT.**

NOTES

Elevations approximated using Google Earth

Shear Test Types - Static Cone: ● Pocket Penetrometer: ■ Unconf. Compr.: ▼ Miniature Vane: ▲ Field Vane: ◆

MIDWEST TESTING

Oldenburg Industrial Park
Washington, Missouri

LOG OF BORING 4

PROJECT NO. 15599 **DATE:** 5/10/23 **LOCATION:** See Figure 1

COMPLETION DEPTH 10 FT.
BORING METHOD CFA
ROCK CORE DIAMETER N/A IN.
SURFACE ELEVATION 552 FT.

DEPTH, FT.	STRATUM DEPTH, FT.	SPT: SPLIT SPOON / BLOWS/6 in. THREE 6-in. INCREMENTS	UNDISTURBED SAMPLE	PERCENT RECOVERY	ROCK CORE
		3 3 4			
	3.0				
5		2 3 4			
		2 3 3			
	8.0				
10	10.0	2 3 4			

2 in. Topsoil
Brown medium stiff Clay (CH) with trace roots

Brown medium stiff Silty Clay (CL)

- reddish-brown below 6 feet

Reddish-brown medium stiff Clay (CH) with trace rock fragments

Boring terminated at 10 feet

Shear Strength from Indicated
1 2 3 4 5
Dry Density, pcf
90 100 110 120 130
Water Content, %
Plastic Limit — Liquid Limit
Standard Penetration Resistance, Blows/Ft.
10 20 30 40 50

WATER LEVEL OBSERVATIONS

DURING DRILLING Dry **FT.**
AT COMPLETION Dry **FT.**
AFTER HRS. **FT.**

NOTES

Elevations approximated using Google Earth

Shear Test Types - Static Cone: ● Pocket Penetrometer: ■ Unconf. Compr.: ▼ Miniature Vane: ▲ Field Vane: ◆

MIDWEST TESTING

Oldenburg Industrial Park
Washington, Missouri

LOG OF BORING 5

PROJECT NO. 15599 **DATE:** 5/9/23 **LOCATION:** See Figure 1

COMPLETION DEPTH 14 FT.
BORING METHOD CFA
ROCK CORE DIAMETER N/A IN.
SURFACE ELEVATION 546 FT.

DEPTH, FT.	STRATUM DEPTH, FT.	SPT SPLIT SPOON	SPT BLOWS/6 in. THREE 6-in. INCREMENTS	UNDISTURBED SAMPLE	PERCENT RECOVERY	ROCK CORE
0			2 2 3			
			3 4 5			
5						
			3 3 3			
	8.0					
			2 3 4			
10						
	14.0					
15						
20						
25						
30						
35						

Shear Strength from Indicated
1 2 3 4 5
Dry Density, pcf
90 100 110 120 130
Water Content, %
Plastic Limit — Liquid Limit
Standard Penetration Resistance, Blows/Ft.
10 20 30 40 50

8.0 Reddish-brown and gray medium stiff Clay (CH)

14.0 Boring terminated at 14 feet

- Brownish-gray medium stiff Silty Clay (CL)
- stiff below 3 feet
- increasing silt, medium stiff below 6 feet

WATER LEVEL OBSERVATIONS

DURING DRILLING	Dry	**FT.**
AT COMPLETION	Dry	**FT.**
AFTER HRS.		**FT.**

NOTES

Elevations approximated using Google Earth

Shear Test Types - Static Cone: ● Pocket Penetrometer: ■ Unconf. Compr.: ▼ Miniature Vane: ▲ Field Vane: ◆

MIDWEST TESTING

Oldenburg Industrial Park
Washington, Missouri

LOG OF BORING 6

PROJECT NO. 15599 **DATE:** 5/10/23 **LOCATION:** See Figure 1

COMPLETION DEPTH 10 FT.
BORING METHOD CFA
ROCK CORE DIAMETER N/A IN.
SURFACE ELEVATION 535 FT.

DEPTH, FT.	STRATUM DEPTH, FT.	SPT: SPLIT SPOON / BLOWS/6 in. THREE 6-in. INCREMENTS	UNDISTURBED SAMPLE	PERCENT RECOVERY	ROCK CORE
		2 3 3			
		2 3 3			
5					
		1 2 2			
		1 2 3			
10	10.0				
15					
20					
25					
30					
35					

4 in. Topsoil
Brown medium stiff Silty Clay (CL)

- increasing silt below 3 feet

- gray, soft below 6 feet

-medium stiff below 8 feet

Boring terminated at 10 feet

Shear Strength from Indicated
1 2 3 4 5
Dry Density, pcf
90 100 110 120 130
Water Content, %
Plastic Limit Liquid Limit
Standard Penetration Resistance, Blows/Ft.
10 20 30 40 50

WATER LEVEL OBSERVATIONS

DURING DRILLING 8.5 **FT.**
AT COMPLETION **FT.**
AFTER HRS. **FT.**

NOTES

Elevations approximated using Google Earth

Shear Test Types - Static Cone: ● Pocket Penetrometer: ■ Unconf. Compr.: ▼ Miniature Vane: ▲ Field Vane: ◆

MIDWEST TESTING

Oldenburg Industrial Park
Washington, Missouri

LOG OF BORING 7

PROJECT NO. 15599 **DATE:** 5/9/23 **LOCATION:** See Figure 1

COMPLETION DEPTH 10.5 FT.
BORING METHOD CFA
ROCK CORE DIAMETER N/A IN.
SURFACE ELEVATION 538 FT.

DEPTH, FT.	STRATUM DEPTH, FT.	SPT SPLIT SPOON	SPT BLOWS/6 in. THREE 6-in. INCREMENTS	UNDISTURBED SAMPLE	PERCENT RECOVERY	ROCK CORE
			3 4 4			
	3.0					
5			4 4 7			
	6.0					
			2 3 4			
10			3 3 5			
	10.5					
15						
20						
25						
30						
35						

3 in. Topsoil
Brown medium stiff Silty Clay (CL)

Gray stiff Clay (CH)

Gray medium stiff silty Clay (CL)

- increasing clay, brown and gray below 8 feet

Boring terminated at 10.5 feet

Shear Strength from Indicated
1 2 3 4 5
Dry Density, pcf
90 100 110 120 130
Water Content, %
Plastic Limit Liquid Limit
Standard Penetration Resistance, Blows/Ft.
10 20 30 40 50

WATER LEVEL OBSERVATIONS

DURING DRILLING Dry **FT.**
AT COMPLETION Dry **FT.**
AFTER HRS. **FT.**

NOTES

Elevations approximated using Google Earth

Shear Test Types - Static Cone: ● Pocket Penetrometer: ■ Unconf. Compr.: ▼ Miniature Vane: ▲ Field Vane: ◆

MIDWEST TESTING

Oldenburg Industrial Park
Washington, Missouri

LOG OF BORING 8

PROJECT NO. 15599 **DATE:** 5/9/23 **LOCATION:** See Figure 1

COMPLETION DEPTH 14 FT.
BORING METHOD CFA
ROCK CORE DIAMETER N/A IN.
SURFACE ELEVATION 532 FT.

DEPTH, FT.	STRATUM DEPTH, FT.	SPT SPLIT SPOON	SPT BLOWS/6 in. THREE 6-in. INCREMENTS	UNDISTURBED SAMPLE	PERCENT RECOVERY	ROCK CORE
0						
			1 2 2			
	3.0					
			3 3 6			
5						
			3 3 5			
	8.0					
			2 3 4			
10						
	14.0					
15						
20						
25						
30						
35						

3 in. Topsoil
Brown soft Clayey Silt (ML)

Brown and gray stiff Clay (CH)

- medium stiff below 6 feet

Gray medium stiff Silty Clay (CL)

Boring terminated at 14 feet

Shear Strength from Indicated
1 2 3 4 5
Dry Density, pcf
90 100 110 120 130
Water Content, %
Plastic Limit — Liquid Limit
Standard Penetration Resistance, Blows/Ft.
10 20 30 40 50

WATER LEVEL OBSERVATIONS

DURING DRILLING 13 **FT.**
AT COMPLETION **FT.**
AFTER HRS. **FT.**

NOTES

Elevations approximated using Google Earth

Shear Test Types - Static Cone: ● Pocket Penetrometer: ■ Unconf. Compr.: ▼ Miniature Vane: ▲ Field Vane: ◆

MIDWEST TESTING

Oldenburg Industrial Park
Washington, Missouri

LOG OF BORING 9

PROJECT NO. 15599 **DATE:** 5/9/23 **LOCATION:** See Figure 1

COMPLETION DEPTH 10 FT.
BORING METHOD CFA
ROCK CORE DIAMETER N/A IN.
SURFACE ELEVATION 527 FT.

DEPTH, FT.	DESCRIPTION	STRATUM DEPTH, FT.	SPT BLOWS/6 in. THREE 6-in. INCREMENTS
0	5 in. Topsoil Dark brown medium stiff Silty Clay (CL) with trace roots		
1–2.5			3 4 4
3	- dark gray below 3 feet		
3.5–5			3 3 4
6	- increasing silt below 6 feet		2 3 3
8	- soft below 8 feet		1 2 2
10	Boring terminated at 10 feet	10.0	

Legend: Shear Strength from Indicated (1, 2, 3, 4, 5); Dry Density, pcf (90, 100, 110, 120, 130); Water Content, %; Plastic Limit — Liquid Limit; Standard Penetration Resistance, Blows/Ft. (10, 20, 30, 40, 50)

WATER LEVEL OBSERVATIONS
DURING DRILLING 8.5 FT.
AT COMPLETION FT.
AFTER HRS. FT.

NOTES
Elevations approximated using Google Earth

Shear Test Types - Static Cone: ● Pocket Penetrometer: ■ Unconf. Compr.: ▼ Miniature Vane: ▲ Field Vane: ◆

MIDWEST TESTING

Oldenburg Industrial Park
Washington, Missouri

LOG OF BORING 10

PROJECT NO. 15599 **DATE:** 5/10/23 **LOCATION:** See Figure 1

COMPLETION DEPTH 10 FT.
BORING METHOD CFA
ROCK CORE DIAMETER N/A IN.
SURFACE ELEVATION 527 FT.

DEPTH, FT.	STRATUM DEPTH, FT.	SPT SPLIT SPOON	SPT BLOWS/6 in. THREE 6-in. INCREMENTS	UNDISTURBED SAMPLE	PERCENT RECOVERY	ROCK CORE
0						
			3 4 5			
			5 6 8			
5						
			3 3 5			
	8.0					
			4 4 4			
10	10.0					
15						
20						
25						
30						
35						

2 in. Topsoil
Gray stiff Silty Clay (CL)

- medium stiff below 6 feet

Gray medium stiff Clay (CH)

Boring terminated at 10 feet

Shear Strength from Indicated
1 2 3 4 5
Dry Density, pcf
90 100 110 120 130
Water Content, %
Plastic Limit Liquid Limit
Standard Penetration Resistance, Blows/Ft.
10 20 30 40 50

WATER LEVEL OBSERVATIONS

DURING DRILLING Dry **FT.**
AT COMPLETION Dry **FT.**
AFTER HRS. **FT.**

NOTES

Elevations approximated using Google Earth

Shear Test Types - Static Cone: ● Pocket Penetrometer: ■ Unconf. Compr.: ▼ Miniature Vane: ▲ Field Vane: ◆

MIDWEST TESTING

Oldenburg Industrial Park
Washington, Missouri

LOG OF BORING 11

PROJECT NO. 15599 **DATE:** 5/10/23 **LOCATION:** See Figure 1

COMPLETION DEPTH 10 FT.
BORING METHOD CFA
ROCK CORE DIAMETER N/A IN.
SURFACE ELEVATION 528 FT.

DEPTH, FT.	STRATUM DEPTH, FT.	SPT SPLIT SPOON	SPT BLOWS/6 in. THREE 6-in. INCREMENTS	UNDISTURBED SAMPLE	PERCENT RECOVERY	ROCK CORE
			1 1 1			
			1 1 2			
5						
	6.0		3 3 5			
	8.0					
10			3 3 4			
	10.0					
15						
20						
25						
30						
35						

3 in. Topsoil
Brownish-gray very soft Clayey Silt (ML)

Gray medium stiff Silty Clay (CL)

Gray medium stiff Clay (CH) with trace rock fragments

Boring terminated at 10 feet

Shear Strength from Indicated
1 2 3 4 5
Dry Density, pcf
90 100 110 120 130
Water Content, %
Plastic Limit — Liquid Limit
Standard Penetration Resistance, Blows/Ft.
10 20 30 40 50

WATER LEVEL OBSERVATIONS

DURING DRILLING Dry **FT.**
AT COMPLETION Dry **FT.**
AFTER HRS. **FT.**

NOTES

Elevations approximated using Google Earth

Shear Test Types - Static Cone: ● Pocket Penetrometer: ■ Unconf. Compr.: ▼ Miniature Vane: ▲ Field Vane: ◆

MIDWEST TESTING

Oldenburg Industrial Park
Washington, Missouri

LOG OF BORING 12

PROJECT NO. 15599 **DATE:** 5/10/23 **LOCATION:** See Figure 1

COMPLETION DEPTH 10 FT.
BORING METHOD CFA
ROCK CORE DIAMETER N/A IN.
SURFACE ELEVATION 526 FT.

DEPTH, FT.	STRATUM DEPTH, FT.	SPT SPLIT SPOON	SPT BLOWS/6 in. THREE 6-in. INCREMENTS	UNDISTURBED SAMPLE	PERCENT RECOVERY	ROCK CORE
0			3 3 4			
			5 5 5			
5						
			3 3 3			
			2 3 5			
10	10.0					
15						
20						
25						
30						
35						

1 in. Topsoil
Brown medium stiff Clay (CH)

- gray, stiff below 3 feet

- medium stiff below 6 feet

Boring terminated at 10 feet

Shear Strength from Indicated
1 2 3 4 5
Dry Density, pcf
90 100 110 120 130
Water Content, %
Plastic Limit Liquid Limit
Standard Penetration Resistance, Blows/Ft.
10 20 30 40 50

WATER LEVEL OBSERVATIONS

DURING DRILLING Dry **FT.**
AT COMPLETION Dry **FT.**
AFTER HRS. **FT.**

NOTES

Elevations approximated using Google Earth

Shear Test Types - Static Cone: ● Pocket Penetrometer: ■ Unconf. Compr.: ▼ Miniature Vane: ▲ Field Vane: ◆

MIDWEST TESTING

Oldenburg Industrial Park
Washington, Missouri

LOG OF BORING 13

PROJECT NO. 15599 **DATE:** 5/9/23 **LOCATION:** See Figure 1

COMPLETION DEPTH 10 FT.
BORING METHOD CFA
ROCK CORE DIAMETER N/A IN.
SURFACE ELEVATION 528 FT.

DEPTH, FT.	STRATUM DEPTH, FT.	SPT SPLIT SPOON BLOWS/6 in. THREE 6-in. INCREMENTS	UNDISTURBED SAMPLE	PERCENT RECOVERY	ROCK CORE
		3 4 5			
		3 3 6			
5					
		2 3 4			
		2 3 4			
10	10.0				
15					
20					
25					
30					
35					

2 in. Topsoil
Brown stiff Silty Clay (CL)

- gray below 3 feet

- medium stiff below 6 feet

Boring terminated at 10 feet

Shear Strength from Indicated
1 2 3 4 5
Dry Density, pcf
90 100 110 120 130
Water Content, %
Plastic Limit Liquid Limit
Standard Penetration Resistance, Blows/Ft.
10 20 30 40 50

WATER LEVEL OBSERVATIONS

DURING DRILLING Dry **FT.**
AT COMPLETION Dry **FT.**
AFTER HRS. **FT.**

NOTES

Elevations approximated using Google Earth

Shear Test Types - Static Cone: ● Pocket Penetrometer: ■ Unconf. Compr.: ▼ Miniature Vane: ▲ Field Vane: ◆

MIDWEST TESTING

Oldenburg Industrial Park
Washington, Missouri

LOG OF BORING 14

PROJECT NO. 15599 **DATE:** 5/9/23 **LOCATION:** See Figure 1

COMPLETION DEPTH 14 FT.
BORING METHOD CFA
ROCK CORE DIAMETER N/A IN.
SURFACE ELEVATION 518 FT.

DEPTH, FT.	STRATUM DEPTH, FT.	SPT SPLIT SPOON	SPT BLOWS/6 in. THREE 6-in. INCREMENTS	UNDISTURBED SAMPLE	PERCENT RECOVERY	ROCK CORE
			2 3 4		26	
	3.0					
5			3 3 4		39	
			2 3 4		31	
10			2 3 5		28	
15	14.0					
20						
25						
30						
35						

3 in. Topsoil
Gray medium stiff Clay (CH) with trace roots

Gray medium stiff Silty Clay (CL)

- increasing silt below 8 feet

- increasing clay below 12 feet

Boring terminated at 14 feet

Shear Strength from Indicated
1 2 3 4 5
Dry Density, pcf
90 100 110 120 130
Water Content, %
Plastic Limit Liquid Limit
Standard Penetration Resistance, Blows/Ft.
10 20 30 40 50

WATER LEVEL OBSERVATIONS

DURING DRILLING Dry **FT.**
AT COMPLETION Dry **FT.**
AFTER HRS. **FT.**

NOTES

Elevations approximated using Google Earth

Shear Test Types - Static Cone: ● Pocket Penetrometer: ■ Unconf. Compr.: ▼ Miniature Vane: ▲ Field Vane: ◆

MIDWEST TESTING

Oldenburg Industrial Park
Washington, Missouri

LOG OF BORING 15

PROJECT NO. 15599 **DATE:** 5/10/23 **LOCATION:** See Figure 1

COMPLETION DEPTH 15 FT.
BORING METHOD CFA
ROCK CORE DIAMETER N/A IN.
SURFACE ELEVATION 521 FT.

DEPTH, FT.	STRATUM DEPTH, FT.	SPT: SPLIT SPOON / BLOWS/6 in. THREE 6-in. INCREMENTS	UNDISTURBED SAMPLE	PERCENT RECOVERY	ROCK CORE
		1 2 2			
	3.0				
5		2 3 4			
		3 3 4			
	8.0				
10		3 3 4			
15		1 2 2			
	15.0				
20					
25					
30					
35					

3 in. Topsoil
Brown and gray soft Silty Clay (CL)

Gray medium stiff Clay (CH)

- some silt below 6 feet

Gray medium stiff silty Clay (CL)

- with some fine sand below 13 feet

Boring terminated at 15 feet

Shear Strength from Indicated
1 2 3 4 5
Dry Density, pcf
90 100 110 120 130
Water Content, %
Plastic Limit Liquid Limit
Standard Penetration Resistance, Blows/Ft.
10 20 30 40 50

WATER LEVEL OBSERVATIONS

DURING DRILLING 12.5 **FT.**
AT COMPLETION **FT.**
AFTER HRS. **FT.**

NOTES

Elevations approximated using Google Earth

Shear Test Types - Static Cone: ● Pocket Penetrometer: ■ Unconf. Compr.: ▼ Miniature Vane: ▲ Field Vane: ◆

MIDWEST TESTING

Oldenburg Industrial Park
Washington, Missouri

LOG OF BORING 16

PROJECT NO. 15599 **DATE:** 5/10/23 **LOCATION:** See Figure 1

COMPLETION DEPTH 15 FT.
BORING METHOD CFA
ROCK CORE DIAMETER N/A IN.
SURFACE ELEVATION 519 FT.

DEPTH, FT.	STRATUM DEPTH, FT.	SPT SPLIT SPOON	SPT BLOWS/6 in. THREE 6-in. INCREMENTS	UNDISTURBED SAMPLE	PERCENT RECOVERY	ROCK CORE
0						
			3 3 4			
			3 3 3			
5						
			1 2 2			
			2 3 3			
10						
	13.0		2 4 5			
15	15.0					
20						
25						
30						
35						

4 in. Topsoil
Dark brown medium stiff Silty Clay (CL)

- gray, increasing silt below 3 feet

- brownish-gray, soft below 6 feet

- medium stiff below 8 feet

Brownish-gray stiff Clay (CH)

Boring terminated at 15 feet

Shear Strength from Indicated
1 2 3 4 5
Dry Density, pcf
90 100 110 120 130
Water Content, %
Plastic Limit Liquid Limit
Standard Penetration Resistance, Blows/Ft.
10 20 30 40 50

WATER LEVEL OBSERVATIONS

DURING DRILLING Dry **FT.**
AT COMPLETION Dry **FT.**
AFTER HRS. **FT.**

NOTES

Elevations approximated using Google Earth

Shear Test Types - Static Cone: ● Pocket Penetrometer: ■ Unconf. Compr.: ▼ Miniature Vane: ▲ Field Vane: ◆

MIDWEST TESTING

Oldenburg Industrial Park
Washington, Missouri

LOG OF BORING 17

PROJECT NO. 15599 **DATE:** 5/10/23 **LOCATION:** See Figure 1

COMPLETION DEPTH 20 FT.
BORING METHOD CFA
ROCK CORE DIAMETER N/A IN.
SURFACE ELEVATION 515 FT.

DEPTH, FT.	STRATUM DEPTH, FT.	SPT SPLIT SPOON	SPT BLOWS/6 in. THREE 6-in. INCREMENTS	UNDISTURBED SAMPLE	PERCENT RECOVERY	ROCK CORE
0						
			2 2 3			
			4 4 6			
5						
			2 3 4			
			2 3 3			
10						
			1 1 2			
15						
	18.0					
			4 2 4			
20						
	20.0					
25						
30						
35						

Shear Strength from Indicated: 1 2 3 4 5
Dry Density, pcf: 90 100 110 120 130
Water Content, %
Plastic Limit — Liquid Limit
Standard Penetration Resistance, Blows/Ft.: 10 20 30 40 50

Gray medium stiff Silt (ML) with trace fine sand

Boring terminated at 20 feet

- 5 in. Topsoil
- Dark brown medium stiff Silty Clay (CL) with trace roots
- stiff, increasing clay below 3 feet
- medium stiff, decreasing clay below 6 feet
- soft below 13 feet

WATER LEVEL OBSERVATIONS

DURING DRILLING 13 **FT.**
AT COMPLETION **FT.**
AFTER HRS. **FT.**

NOTES

Elevations approximated using Google Earth

Shear Test Types - Static Cone: ● Pocket Penetrometer: ■ Unconf. Compr.: ▼ Miniature Vane: ▲ Field Vane: ◆

MIDWEST TESTING

FIELD CLASSIFICATION SYSTEM

BORING METHOD

HSA	Hollow-stem auger
CFA	Continuous-flight auger
RB	Rollerbit
MR	Mud rotary
RC	Rock coring
CA	Casing advancer
DC	Driven casing
HA	Hand-auger

SHEAR STRENGTH DATA

UC	Unconfined compression
TX-UU	Unconsolidated-undrained triaxial
TX-CU	Consolidated-undrained triaxial
V	Miniature vane
FV	Field vane
T	Torvane
PP	Pocket penetrometer
SCP	Static cone penetrometer

SOIL PARTICLE SIZE

Cohesive		Granular or Non-Cohesive							
		Sand			Gravel				
Clay	Silt	Fine	Medium	Coarse	Fine	Medium	Coarse	Cobbles	Boulders
0.002 mm	0.05 mm	0.02 mm	0.6 mm		0.25 in.	0.5 in.	1 in.	3 in.	8 in.

STANDARD PENETRATION TEST (ASTM D 1586)

Driving a 3.0-inch O.D. split-spoon sampler 18 inches with a 140-pound hammer free-falling a distance of 30 inches. The number of blows to drive the sampler these three successive 6-inch increments is recorded; the sum of the last two increments being the N-value.

N-VALUE & SHEAR STRENGTH CORRELATIONS

Granular Soils		Cohesive Soils		
N-Value	Relative Density	N-Value	Shear Strength, tsf	Consistency
		0-2	< 0.125	Very soft
0-4	Very loose	3-4	0.125 – 0.25	Soft
5-10	Loose	5-8	0.25 – 0.5	Medium stiff
11-30	Medium dense	9-15	0.5– 1.0	Stiff
31-50	Dense	16-30	1.0 – 2.0	Very stiff
Over 50	Very dense	Over 30	> 2.0	Hard

SOIL CLASSIFICATIONS of samples are made by visual inspection and/or laboratory test results in accordance with the Unified Soil Classification System, the symbol of which is indicated in parentheses following the description.

RELATIVE PROPORTIONS are indicated by the following descriptive terms: trace (0-15%), some (15-35%), and (35-50%).

STRATA CHANGES are indicated on the boring logs by horizontal lines. A solid line represents an observed change while a dashed line indicates an estimated change.

GROUND WATER OBSERVATIONS are made at the times and under the conditions stated on the boring logs. Fluctuations may occur due to changes in precipitation, temperature, site topography, etc.