

Cherry Valley Twp. - 9NW, SW - T43N, R2E



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of

Date 2-23-09

ROUTE I-55 DESCRIPTION Proposed SB LOGGED BY W6
SECTION (201-3)K(4-1.5)K LOCATION I-39 Ramp to W13
COUNTY Win DRILLING METHOD HSA HAMMER TYPE B-45

STRUCT. NO. _____
Station _____

BORING NO. B-1a
Station 158740
Offset 8' RtoFE
Ground Surface Elev. 849.8 ft

DEPTH (ft)	BLOW COUNT (Blows/6")	UNIFORMITY COEFFICIENT (U)	MOISTURE CONTENT (%)	Soil Description	DEPTH (ft)	BLOW COUNT (Blows/6")	UNIFORMITY COEFFICIENT (U)	MOISTURE CONTENT (%)
0				Surface Water Elev. _____ ft				
				Stream Bed Elev. _____ ft				
				Groundwater Elev.: _____ ft				
				First Encounter Upon Completion _____ ft				
				After _____ Hrs. _____ ft				
0				med tan WLS	0	8		
3.5					3.5	7		
3.5			26		6	6		
6.5				med tan WLS	6.5	12	4.95	17
6.5				Hard Tan Silty Clay loam	12	4	B	
9.5					12	5	1.9	23
12.5				med tan WLS	18	7	B	
12.5				Slit tan Silty Clay loam	18	3	1.7	20
15.5					19	5	S	
15.5				Slit Reddish Brown Clay loam	19	10		
18.5					20			
18.5				V. Dunes Tan Weathered Limestone	20	100		
21.5					21	8		
21.5				END OF BORING	21			
24.5					24			
24.5				60' Rt. 10' S' Elev. 1st Hole	24			
27.5					27			
27.5				50' Lt. 92.0' Elev. 1st Encounter ?	27			
30.5			16	No Refusal	30			
30.5					30			
33.5					33			
33.5					33			
36.5					36			
36.5					36			
39.5					39			
39.5					39			
42.5					42			
42.5					42			
45.5					45			
45.5					45			
48.5					48			
48.5					48			
51.5					51			
51.5					51			
54.5					54			
54.5					54			
57.5					57			
57.5					57			
60.5					60			
60.5					60			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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SOIL BORING LOG

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Date 1-21-09

ROUTE I39 FAP 301 DESCRIPTION PROPOSED SB
 SECTION (201-3)K(4-1,5)K LOCATION I39 RAMP TO I40 I39 JCT LOGGED BY JAS
 COUNTY WARR. DRILLING METHOD HSA HAMMER TYPE B-45

STRUCT. NO. _____
 Station _____

BORING NO. B-2a
 Station 140+00
 Offset @ 4 850.1
 Ground Surface Elev. 108.9 ft

DEPTH (ft)	BLOWS (1/6")	UCS (tsf)	MOIST (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After (ft)	DEPT (ft)	BLOW (1/6")	UCS (tsf)	MOIST (%)
0		.5 P	9							0	4	2.0 P	23
6	10 8 6									6	5	1.75 P	14
16	10 24									16	3 6 8	1.3 P	12
21	5 5 21									21	3 3 3	1.1 P	13
10	8 16 16									-10			
16	16 13 8												
15	6 5 7	.3 P	17							-15			
7	7 7 10	3.5 P	18										
20										-20			
40										-40			

MED BROWN SELTY CLAY LOAM

MED TAN W/S

NEURGE TAN W/S

MED TAN W/S

NEURGE TAN W/S

MED TAN W/S

SOFT TAN/BROWN SANDY LOAM
W/ TAN W/S

VERY STIFF BROWN SELTY CLAY LOAM

STIFF BROWN SELTY CLAY LOAM

STIFF BROWN/GRAY SELTY LOAM
W/ SAND LENS

STIFF TAN/GRAY SANDY LOAM

STIFF TAN/GRAY SANDY LOAM

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



SOIL BORING LOG

ROUTE I-39 DESCRIPTION Proposed SB Date 2-18-00
 SECTION _____ LOCATION I-39 Ramp to W2-20 LOGGED BY W.L.
 COUNTY Winn DRILLING METHOD _____ HAMMER TYPE B-53

STRUCT. NO. _____
 Station _____

BORING NO. B-3a
 Station 661+00
 Offset 6'E
 Ground Surface Elev. ~~100.0~~ 854.0 ft

DEPTH (ft)	BLOWS (1/6")	UCS (tsf)	MOIST (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter Upon Completion After Hrs. (ft)	DEPTH (ft)	BLOWS (1/6")	UCS (tsf)	MOIST (%)
0											
3		5 P	10					3		1.6 P	19
5								5			
15	8							2	1.0	13	21
23								5			
24								3		1.3 P	10
10								5		20 P	15
11								8			
16								2		1.8 P	18
17								5			
18								7			
14								2			
15								10			
10								15			
39											
8											
8											
9											
10		6-1	12								
11		S									

Med Brown loam
~~_____~~
Dense Tan WLS
~~_____~~
Dense Tan WLS
~~_____~~
med Tan WLS
~~_____~~
med Tan WLS
~~_____~~
med Tan WLS
~~_____~~
med Tan WLS
~~_____~~
med Tan WLS
~~_____~~
Hard L. Brown Sandy Clay Loam
~~_____~~

Stiff Tan silty clay loam
~~_____~~
med Tan silty loam
~~_____~~
Soft Tan silt
~~_____~~
Stiff Tan Sandy loam
~~_____~~
Stiff Tan Sandy loam
~~_____~~
med Tan weather limestone
~~_____~~
med Tan weather limestone
 END of Boring
~~95.0E10V~~
~~50' PROF 50' PROF~~
~~1st None 1st None~~

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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SOIL BORING LOG

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ROUTE I-39

DESCRIPTION Proposed SB

Date 1-21-09

SECTION _____

LOCATION I-39 Ramp to WB US20

LOGGED BY JAS

COUNTY WISN

DRILLING METHOD HSM

HAMMER TYPE B-45

STRUCT. NO. B

Station 166+00

BORING NO. B-4a

Station 166+20

Offset 0.2

Ground Surface Elev. ~~98.0~~ 855.8 ft

DEPTH H	BLOWS S	UCS Qu	MOIST T
(ft)	(/6")	(tsf)	(%)

Surface Water Elev.	_____	ft
Stream Bed Elev.	_____	ft
Groundwater Elev.:		
First Encounter	_____	ft
Upon Completion	_____	ft
After _____ Hrs.	_____	ft

DEPTH H	BLOWS S	UCS Qu	MOIST T
(ft)	(/6")	(tsf)	(%)

MED BROWN LOAM

VERY DENSE TO HLS

END OF BORING

ROCK PROPPES

~~50' AT ELEV 97.2~~

~~1st - 3.0'~~

~~REFUSAL - 6.0'~~

~~50' RT ELEV 97.2~~

~~1st - 1.0'~~

~~REFUSAL - 7.5'~~

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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SOIL BORING LOG

Page 1 of

Date 1-21-09

ROUTE I-39 DESCRIPTION _____

LOGGED BY JPS

SECTION _____ LOCATION I39 ramp to WB 1520

COUNTY Wood DRILLING METHOD HSA

HAMMER TYPE B-45

STRUCT. NO. _____
Station _____

BORING NO. B-5a

Station 167+00

Offset 0.2

Ground-Surface Elev. ~~100.0~~ 833.1 ft

DEPTH (ft)	BLOW COUNT (16")	UCS (tsf)	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter Upon Completion (ft)	After (ft)	DEPTH (ft)	BLOW COUNT (16")	UCS (tsf)	MOISTURE (%)
4		0.5	13									
5												
11												
14												
33												
-5	160								-25			
	FOR 5.5'											
-10									-30			
-15									-35			
-20									-40			

Med Brown Loam

SEVERE TAN MRS

V. SEVERE TAN MRS

END OF BORING

~~Rock Probes~~

~~50' LT
1st 1.0'
REFUSAL 3.0'
50' RT
1st 7.0'
REFUSAL 8.0'~~

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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SOIL BORING LOG

Page 1 of

Date 12-0-09

ROUTE I-39 DESCRIPTION _____

LOGGED BY W6

SECTION _____ LOCATION I-39 Ramp to WB US 20

COUNTY Winn DRILLING METHOD HSM HAMMER TYPE B-45

STRUCT. NO. _____
Station _____

BORING NO. B6a
Station 168+00

Offset ±

Ground-Surface Elev. 180.0 ft

DEPTH (ft)	BLOW COUNTS (blows/6")	UNIFORMITY COEFFICIENT (tsf)	MOISTURE (%)	Surface Water Elev.	DEPTH (ft)	BLOW COUNTS (blows/6")	UNIFORMITY COEFFICIENT (tsf)	MOISTURE (%)
				ft				
				Stream Bed Elev.				
				Groundwater Elev.:				
				First Encounter				
				Upon Completion				
				After _____ Hrs.				

Local Tan Sandy loam
Med tan weather limestone
V. Dense tan weather limestone

~~Rock Probes~~
~~50' AT ELEV. 98.5~~
~~1ST - 20'~~
~~REFUSAL - 35'~~
~~50' RT ELEV. 101.8~~
~~1ST - 4.0'~~
~~REFUSAL - 4.5'~~

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



SOIL BORING LOG

Date 1-20-09

ROUTE I-39 DESCRIPTION _____

LOGGED BY WG

SECTION _____ LOCATION I-39 Ramp to WB US 20

COUNTY Win DRILLING METHOD HSA HAMMER TYPE B-45

STRUCT. NO. _____
 Station _____

BORING NO. B-7a 100
 Station 169+00
 Offset 5
 Ground Surface Elev. ~~100.0~~ 83.5 ft

DEPTH (ft)	BLOW COUNT (blows/ft)	UNCONSOLIDATED SOIL TYPE (UCS)	MOISTURE (%)	Surface Water Elev.	DEPTH (ft)	BLOW COUNT (blows/ft)	UNCONSOLIDATED SOIL TYPE (UCS)	MOISTURE (%)
				ft				
0								
1								
2								
3								
4								
5								
6								
7	7	3.5 P	16					
8	10		20					
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

med tan silt/clay loam
~~1-1/2 ft tan loam~~
~~1-1/2 to 2 in weather limestone~~

~~Full Penetration
 50' RT ELEV 98.0
 15' - 1.6'
 REFUSAL - 2.0'
 50' RT ELEV 100.5
 15' - 3.5'
 REFUSAL - 6.0'~~

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)



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Date 1-20-09

ROUTE I-39 DESCRIPTION _____ LOGGED BY WB
SECTION _____ LOCATION I-39 Ramp toward US20
COUNTY Winn DRILLING METHOD HSA HAMMER TYPE B-45

STRUCT. NO. _____
Station _____

BORING NO. B-8a
Station 170+00
Offset 5' Left
Ground Surface Elev. 100.0 ft

DEPTH TH (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST T (%)	Surface Water Elev.	Stream Bed Elev.	DEPTH TH (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST T (%)
				ft	ft				
4.0		-5 P	20						
23.5	3 7 10	22 P	28						
29									
30									
57									
-10									
-15									
-20									

med Olive green silt/clay loam

v. stiff Tan silt/clay loam
w/ Sand below 3"

v. Dense Tan Weathered

END of
Bore

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

~~Rock破碎~~
50' RT ELEV 97.0
RT - 3.5'
REFUSAL - 4.0'
50' RT ELEV 98.5
RT - 8.0'
REFUSAL - 8.5'

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

SOIL CORING DATA

Project P92-075-05
~~Amelia Rd~~
~~FAI 39~~
~~W.B. W520~~

Route FAI 39
~~W.B. W520~~

Section (201-3)(4-1,5)K County Winnebago

Depth	Sample No.	SOIL TYPE	Water	CAN NO.	QU	DESCRIPTION OF SOIL LAYER (Color, moisture, etc.)	Depth	Sample No.	SOIL TYPE	Water	CAN NO.	QU	DESCRIPTION OF SOIL LAYER (Color, moisture, etc.)
Date	2-20						Date						
Sta.	164+00						Sta.						
1	Silty clay loam						1						
2	WLS						2						
3	Auger Refusal at 2'						3						
4							4						
5							5						
6							6						
7							7						
8							8						
9							9						
10							10						
Date							Date						
Sta.							Sta.						
1							1						
2							2						
3							3						
4							4						
5							5						
6							6						
7							7						
8							8						
9							9						
10							10						

②
 668 5' Brown med
 Terr
 50' Refusal at 1' Elev: 834.7
 let increment at 1'
 Auger Refusal at 2'
 50' Refusal at 3' Elev: 835.7
 let increment at 3'
 Auger Refusal at 5'

Qu's: 0-25 Very soft, ...

SOIL CORING DATA

Project Linden Rd Route NB I-39 Section W.B. W520 County Winnebago

Depth	Sample No.	SOIL TYPE	Water	CAN NO.	QU	DESCRIPTION OF SOIL LAYER (Color, moisture, etc.)	Depth	Sample No.	SOIL TYPE	Water	CAN NC.	QU	DESCRIPTION OF SOIL LAYER (Color, moisture, etc.)												
Date	Sta.	173f00											Date	Sta.	171f00										
1							1	17	Sandy loam		229	.3	Tan soft												
2							2																		
3							3																		
4							4																		
5							5																		
6							6				718	.3													
7							7																		
8							8																		
9		END					9																		
10							10																		
Date	Sta.	1-20											Date	Sta.											

Depth	Sample No.	SOIL TYPE	Water	CAN NO.	QU	DESCRIPTION OF SOIL LAYER (Color, moisture, etc.)	Depth	Sample No.	SOIL TYPE	Water	CAN NC.	QU	DESCRIPTION OF SOIL LAYER (Color, moisture, etc.)												
Date	Sta.	172f00											Date	Sta.	170f00										
1							1	10	Sandy loam		198	.3	Tan soft												
2							2																		
3							3																		
4							4																		
5							5																		
6							6																		
7							7																		
8							8																		
9							9																		
10							10																		
Date	Sta.	1-20											Date	Sta.											

Depth	Sample No.	SOIL TYPE	Water	CAN NO.	QU	DESCRIPTION OF SOIL LAYER (Color, moisture, etc.)	Depth	Sample No.	SOIL TYPE	Water	CAN NC.	QU	DESCRIPTION OF SOIL LAYER (Color, moisture, etc.)												
Date	Sta.	173f00											Date	Sta.	171f00										
1							1																		
2							2																		
3							3																		
4							4																		
5							5																		
6							6																		
7							7																		
8							8																		
9							9																		
10							10																		
Date	Sta.	1-20											Date	Sta.											

QU'S: 0-25 Verti soft, 25-50 ...

BORING DEPTHS

* 2 bridge borings - 100' E.W. of Ramp

Station	Depth
158+40	30
160+00	28
4+00	35
2+00	29
3+00	21
4+00	18
165+00 *	28
6+00	26
7+00	20
8+00	18
7+00	18
170+00	15
1+00	12
2+00	10
3+00	8
4+00	6
175+00	7
6+00	8
7+00	8
8+00	8
9+00	7
180+00	6
1+00	6
2+00	6
3+00	6
4+00	6
185+00	6

12' or >

FAP 301
Sec. 34PR
Winnebago Co.

I-39 SB (Proposed) @ Bypass 20

If you use more than 2 augers, then go split spoon.