

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 303	130 BR-4	BOONE		53
FED. ROAD DIST. NO. 7	BLINDS	FED. AID PROJECT		

Contract #64800

SHEET NO. 16
18 SHEETS

Illinois Department of Transportation
Division of Highways
Region 2, District 2

SOIL BORING LOG

Page 1 of 2 Date 2502

ROUTE FAP 303 DESCRIPTION P-92-030-02 IL 173 over Beaver Creek, 2 1/4 m. E. of Poplar Grove LOGGED BY T. Wendal

SECTION 130 BR-4 LOCATION Boone Twp. - SW, SEC. 16, TWP. 45N, RNG. 4E, PM

COUNTY Boone DRILLING METHOD Hollow Stem Auger HAMMER TYPE Diedrich Automatic

STRUCT. NO. <u>004-0020</u>	D E L C O I S T	Surface Water Elev. <u>850.3</u> ft	D E L C O I S T
Station <u>310 + 00</u>	H S Qu T	Stream Bed Elev. <u>845.3</u> ft	H S Qu T
BORING NO. <u>B-1</u>		Groundwater Elev.: <u>845.6</u> ft	
Station <u>311 + 08</u>		First Encounter <u>845.6</u> ft	
Offset <u>14.00ft Lt Cl.</u>		Upon Completion <u>845.6</u> ft	
Ground Surface Elev. <u>858.6</u> ft	(ft) (ft ²) (tsf) (%)	After <u>845.6</u> ft	(ft) (ft ²) (tsf) (%)

15	Wash						
7	MEDIUM tan fine SAND						
8							
12							
837.10							
9							
8							
10							
834.60							
26							
6							
10							
15							
832.10							
6							
10							
14							
829.60							
30							
8							
10							
14							
827.10							
10							
9							
11							
827.10							
2							
5							
9							
11							
824.60							
30							
5							
7							
8							
822.10							
7							
10							
10							
819.60							
40							

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)

Illinois Department of Transportation
Division of Highways
Region 2, District 2

SOIL BORING LOG

Page 2 of 2 Date 2502

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SECTION 130 BR-4 LOCATION Boone Twp. - SW, SEC. 16, TWP. 45N, RNG. 4E, PM

COUNTY Boone DRILLING METHOD Hollow Stem Auger HAMMER TYPE Diedrich Automatic

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Station <u>310 + 00</u>	H S Qu T	Stream Bed Elev. <u>845.3</u> ft	H S Qu T
BORING NO. <u>B-1</u>		Groundwater Elev.: <u>845.6</u> ft	
Station <u>311 + 08</u>		First Encounter <u>845.6</u> ft	
Offset <u>14.00ft Lt Cl.</u>		Upon Completion <u>845.6</u> ft	
Ground Surface Elev. <u>858.6</u> ft	(ft) (ft ²) (tsf) (%)	After <u>845.6</u> ft	(ft) (ft ²) (tsf) (%)

8	Wash						
7	MEDIUM tan fine SAND						
8							
12							
817.10							
10							
8							
10							
814.60							
45							
6							
7							
9							
812.10							
30							
40							
38							
791.60							
10							
33							
61							
794.10							
65							
70							
808.60							
10							
8							
15							
807.10							
30							
40							
38							
791.60							
10							
8							
15							
804.60							
30							
40							
38							
791.60							
9							
11							
12							
802.10							
7							
10							
10							
819.60							
40							

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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Region 2, District 2

SHELBY TUBE TEST RESULTS

Page 1 of 2 Date 8106

ROUTE FAP 303 DESCRIPTION P92-030-02 Bridge on IL 173 over Beaver Creek, 9 m. W. of Maier Road DRILLED BY _____

SECTION 130 BR-4 LOCATION Boone Twp. - SW, SEC. 16, TWP. 45N, RNG. 4E, PM

COUNTY Boone STRUCT. NO. 004-0020

BORING NO. B-1 ST Station 441+50 Ground Surface Elev. 858.6 ft Tube Length _____ in

Offset 19.00ft Lt Cl. Begin Sampling Depth -9 ft Tube Diameter _____ in

SOIL TYPE, DESCRIPTION AND OBSERVATIONS	(ft)	(no)	(pcf)	(tsf)	(%)	(psf)	(deg)	TRIAxIAL DATA	
								S P E C I M E N T H E N T H E	UNIT W E I G H T H E N T H E
Not Sampled									
Not Sampled									
Gray Sa, to brown SIC, to gray Sa w/gravel	1-1					11.6			
Brownish-green SIC w/oxidized SIL pockets	1-2	119.8	0.57			26.0			CONS
Greenish-gray SIC w/SI pockets & oxidized areas	1-3	125.5				23.9			
No Recovery	1-4								
Greenish-gray SIC w/large Sa pocket	2-1	118.1				18.5	480	12	UU Tx
Greenish-gray SIC w/Sa pockets, to black SIC	2-2	111.9	0.71			27.9			
No Recovery	2-3								
No Recovery	2-4								
Black SICL w/Sa lenses	3-1	116.2	0.2			28.6			
Black Clayey SIL w/Sa lenses & seams	3-2	111.1				37.1	540	0	UU Tx
Black, organic SIL w/Sa pockets	3-3	107.3				44.8			CONS
No Recovery	3-4								
Black, organic Clayey SIL w/oxidized Sil. pockets	4-1					37.1			
Black, organic Clayey SIL w/oxidized Sil. pockets, top 1/3, to gray CL w/Sa pockets & stones	4-2	113.6				31.6	120	2	UU Tx
Gray, organic SIL w/L & Sal seams - organics & shells	4-3	116.0				34.9			CONS
No Recovery	4-4								

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
The "Test Type" indicates if Unconsolidated Undrained (UU), Consolidated Undrained (CU) or (CONS) Consolidation test procedures (AASHTO T 296, T 297 or T 216) were used

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SHELBY TUBE TEST RESULTS

Page 2 of 2 Date 8106

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SECTION 130 BR-4 LOCATION Boone Twp. - SW, SEC. 16, TWP. 45N, RNG. 4E, PM

COUNTY Boone STRUCT. NO. 004-0020

BORING NO. B-1 ST Station 441+50 Ground Surface Elev. 858.6 ft Tube Length _____ in

Offset 19.00ft Lt Cl. Begin Sampling Depth -9 ft Tube Diameter _____ in

SOIL TYPE, DESCRIPTION AND OBSERVATIONS	(ft)	(no)	(pcf)	(tsf)	(%)	(psf)	(deg)	TRIAxIAL DATA	
								S P E C I M E N T H E N T H E	UNIT W E I G H T H E N T H E
Sa & gravel, top 1/4, to dark gray SIL w/Sa & gravel	5-1	122.4	0.05			25.6			
Dark gray Sal. w/gravel & SIL pockets	5-2	133.3				15.7	800	16	UU Tx
No Recovery	5-3								
No Recovery	5-4								

The "Unit Weight" column indicates the "wet" or "moist" unit weight of the sample
The "Strength" column represents the "unconfined compressive" strength of the sample (AASHTO T 208)
The "Test Type" indicates if Unconsolidated Undrained (UU), Consolidated Undrained (CU) or (CONS) Consolidation test procedures (AASHTO T 296, T 297 or T 216) were used

*To get proposed Stations for Boring Logs add 130+33.44 to the Stations shown above.

SOIL BORING LOGS
F.A.P. ROUTE 303 - SECTION 130BR-4
BOONE COUNTY
STATION 439+88.00
STRUCTURE NO. 004-0020