

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 821	13B-1	JEFFERSON	39	38
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 17

17 SHEETS

Contract #98957

**Illinois Department of Transportation SOIL BORING LOG** Page 1 of 2  
Date 10/6/04

ROUTE FAP 821 (IL 15) DESCRIPTION Big Muddy River LOGGED BY E. Sandschafer

SECTION 13B-1 LOCATION N 1/2, SEC. 33, TWP. 2 S, RING. 2 E, 3 PM

COUNTY Jefferson DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 041-0023 Station 1200+35

BORING NO. 2 (W. Pier) Station 1200+35

Offset 59.00ft RL  
Ground Surface Elev. 433.59 ft

DEPTH (ft)	SOIL DESCRIPTION	BLOWS	REMARKS
0	Topsoil, very silty.	20	1.7
4	Brown, SILTY LOAM w/ hair roots.	26	S 11
4	Very stiff, damp, gray, SANDY CLAY TILL.	15	
4	Sample pokershipped, unable to test for Qu.	23	3.9 12
4		32	S
4	Medium, damp, brown, CLAY LOAM w/ one 1/2" sand lens.	21	
4		41	13
4		50*	S
4	Loose to soft, damp, brown to gray, SILTY LOAM.	24	
5		43	2.0 12
6		50*	S
0	Hard, very moist, gray, SANDY CLAY TILL.	24	
0		36	5.0 12
1		50	S
1	Stiff, damp, brown mottled gray, SANDY CLAY LOAM.	5	1.5 16
13	Brown, SANDY LOAM.	13	BS
11	Brown, fine grained, SAND, 27% passing #200 sieve.	11	
10	Very stiff, damp, gray, SANDY CLAY LOAM w/ some pebbles.	10	3.9 13
13		13	S
7	Hard, damp, gray, SANDY CLAY TILL.	11	4.4 11
14		14	B
12		20	
20		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 T208)

**Illinois Department of Transportation SOIL BORING LOG** Page 2 of 2  
Date 10/5/04

ROUTE FAP 821 (IL 15) DESCRIPTION Big Muddy River LOGGED BY E. Sandschafer

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STRUCT. NO. 041-0023 Station 1200+35

BORING NO. 2 (W. Pier) Station 1200+35

Offset 59.00ft RL  
Ground Surface Elev. 433.59 ft

DEPTH (ft)	SOIL DESCRIPTION	BLOWS	REMARKS
502"	Very dense, water bearing, GRAVELLY SAND, 30% passing #200 sieve. Operator noted '8' of water in hole after sampling.	18	
502"	Very dense, moist, gray, CLAY SHALE.	18	
504"	Extent of exploration.	8	
501"	Benchmark: BM 204 Sta 1201+10, 33.5ft, Elevation = 439.56'. "Square" Chiseled in SE Corner of 6' X 6' Conc. pad for Streamflow Monitoring Station.	8	
501"		8	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
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**Illinois Department of Transportation SOIL BORING LOG** Page 1 of 2  
Date 10/6/04

ROUTE FAP 821 (IL 15) DESCRIPTION Big Muddy River LOGGED BY E. Sandschafer

SECTION 13B-1 LOCATION N 1/2, SEC. 33, TWP. 2 S, RING. 2 E, 3 PM

COUNTY Jefferson DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 041-0023 Station 1200+35

BORING NO. 3 (E. Abut) Station 1201+10

Offset 30.00ft RL  
Ground Surface Elev. 439.49 ft

DEPTH (ft)	SOIL DESCRIPTION	BLOWS	REMARKS
439.49	Topsoil	18	4.5 11
439.49	Hard, very moist, brown mottled gray, CLAY LOAM.	19	S 11
43		19	6.5 9
22		30	S
18			
439.49	Medium, damp, brownified, SANDY LOAM.	4	
6		27	0.9 12
6		29	S
4		19	
7		37	5.6 10
11		50	S
7		30	
9		30	2.9 10
12		50*	S
4			
3	Loose to medium, very damp to wet, red, fine grained, SAND, 27% passing #200 sieve.	7	17
6		28	
7	11% passing #200 sieve.	7	21
8		43	3.2 11
8		50*	S
4	5% passing #200 sieve.	6	1.7 15
10	Stiff, damp, gray, SANDY LOAM.	10	S
8		10	

Extremely hard drilling. Wood fragments and coal present in sample.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
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**Illinois Department of Transportation SOIL BORING LOG** Page 2 of 2  
Date 10/6/04

ROUTE FAP 821 (IL 15) DESCRIPTION Big Muddy River LOGGED BY E. Sandschafer

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COUNTY Jefferson DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 041-0023 Station 1200+35

BORING NO. 3 (E. Abut) Station 1201+10

Offset 30.00ft RL  
Ground Surface Elev. 439.49 ft

DEPTH (ft)	SOIL DESCRIPTION	BLOWS	REMARKS
439.49	Hard to very stiff, very moist, gray, SANDY CLAY TILL / SANDY LOAM TILL.	20	4.4 12
29		29	BS 12
46		31	
46		48	2.1 13
502"		502"	S
40	Stiff to very stiff, moist, gray, CLAY LOAM SHALE.	50*	2.0 8
502"	Extent of exploration.	502"	S
502"	Benchmark: BM 204 Sta 1201+10, 33.5ft, Elevation = 439.56'. "Square" Chiseled in SE Corner of 6' X 6' Conc. pad for Streamflow Monitoring Station.	8	
502"		8	

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 T208)

BORING LOGS  
F.A.P. RT. 821 - SECTION 13B-1  
JEFFERSON COUNTY  
STATION 1200+35.00  
STRUCTURE NO. 041-0106