STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 303	130 BR-4	BOONE		54
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 17
18 SHEETS

Contract #64800

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

SOIL BORING LOG

Page 1 of 2

Date 2/8/02

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

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. 004-0020
Station 310 + 00

BORING NO. B-2
Station 308 + 86
Offset 15.00ft Rt CL
Ground Surface Elev. 858.8 ft

Surface Water Elev. 850.8 ft
Stream Bed Elev. 845.8 ft

Groundwater Elev.:
First Encounter 843.3 ft
Upon Completion Wash ft
After ___ Hrs. ___ ft

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Road Rock					
MEDIUM dark brown CLAY LOAM				1.0 P	22
	856.30				
STIFF tan CLAY LOAM			1 3 4	1.2 B	24
	854.80	5			
MEDIUM tan mottled SILTY CLAY LOAM			2 4 4	0.6 B	27
	852.30				
SOFT gray SILTY CLAY with ORGANICS			1 2 2	0.5 B	30
	849.80	10			
SOFT gray SANDY CLAY with ORGANICS			1 1 2	0.3 P	36
	847.30				
SOFT gray SANDY CLAY with medium size GRAVEL lens			0 5 5	0.3 P	32
	844.30	15			
MEDIUM dirty SAND & GRAVEL			3 11 13		
	842.30				
MEDIUM dirty SAND & GRAVEL			19 15 10		
	839.80	20			
LOOSE dirty SAND & GRAVEL			2 3 6		
	836.80				
SOFT gray SANDY LOAM with 25% ORGANICS			1 2 6	0.3 P	55
	834.80	25			
MEDIUM gray SANDY LOAM with dirty SAND & GRAVEL in top 6" with 21% ORGANICS			1 3 5	0.5 P	53
	832.30				
VERY SOFT gray SILTY LOAM with 22% ORGANICS			0 1 2	0.1 P	43
	829.80	30			
VERY SOFT gray SILTY LOAM with 19% ORGANICS			1 1 4	0.1 P	42
	827.30				
STIFF gray LOAM			3 10 15	1.5 P	19
	824.30	35			
VERY LOOSE dirty SAND & GRAVEL with COBBLES			0 0 2		
	822.30				
Wash DENSE tan SAND & GRAVEL with COBBLES			15 17 19		
	819.80	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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Illinois Department of Transportation
Division of Highways
Region 2, District 2

SOIL BORING LOG

Page 2 of 2

Date 2/8/02

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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

STRUCT. NO. 004-0020
Station 310 + 00

BORING NO. B-2
Station 308 + 86
Offset 15.00ft Rt CL
Ground Surface Elev. 858.8 ft

Surface Water Elev. 850.8 ft
Stream Bed Elev. 845.8 ft

Groundwater Elev.:
First Encounter 843.3 ft
Upon Completion Wash ft
After ___ Hrs. ___ ft

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Wash MEDIUM tan SAND & GRAVEL			9 10 12		
	817.30				
Wash MEDIUM tan SAND & GRAVEL			5 8 8		
	812.30	45			
Wash DENSE gray SAND & GRAVEL			9 15 16		
	807.30	50			
Wash MEDIUM tan SAND & GRAVEL			7 12 10		
	802.30	55			
	799.80	60			
Wash DENSE tan SAND & GRAVEL			14 22 20		
	797.30				
Extended on 8/4/06 LOOSE medium gray fine SAND			5 4 7		
	794.30	65			
Wash STIFF gray LOAM TILL			3 3 3	1.0 P	10
	791.80				
Wash No Recovery (Presume Sand)			5 8 9		
	789.80	70			
MEDIUM gray clean medium coarse SAND with GRAVEL			7 11 15		
	787.30				
	784.80	75			
Wash DENSE gray clean medium coarse SAND			5 15 20		
	782.30	80			

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)

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

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

SHELBY TUBE TEST RESULTS

Page 1 of 2

Date 8/4/06

ROUTE FAP 303 DESCRIPTION P92-030-02 Bridge on IL 173 over Beaver Creek, .5 m. W. of Meier Road DRILLED BY ___

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

COUNTY Boone STRUCT. NO. 004-0020
Station W. Abut.

BORING NO. B-2 ST
Station 439 + 20
Offset 11.50ft Rt CL
Ground Surface Elev. 858.8 ft Tube Length ___ in
Begin Sampling Depth -0 ft Tube Diameter ___ in

SOIL TYPE, DESCRIPTION AND OBSERVATIONS	DEPTH (ft)	SPECIMEN (no)	UNIT WEIGHT (pcf)	STRENGTH (tsf)	MOISTURE (%)	TRIAXIAL DATA COHESION (psf)	PHI ANG. (deg)	TEST TYPE
Not Sampled								
Not Sampled								
Brown SIC w/SiL pockets - isolated large stones		1-1			24.8			
Brown SIC w/isolated small stones		1-2	122.8		26.3	1160	1	UU Tx
No Recovery	5	1-3						
No Recovery		1-4						
Brown SIC w/small stones		2-1			18.0			
Brown SIC w/SiL pockets & small stones		2-2	124.7		25.3			CONS
Gray SaL, to dark gray L - shale seam separating the tube		2-3	133.5	0.67	13.6			
No Recovery		2-4						
Brown SIC, top 12, to black SIL w/SaL pockets		3-1	108.9		21.5			
No Recovery		3-2						
No Recovery		3-3						
No Recovery	10	3-4						
Gray organic SaL w/SICL pockets & lenses - organic pockets		4-1	123.3		23.5			CONS
Alt. layers of gray SIL & SaL		4-2	126.7		23.1	600	6	UU Tx
No Recovery		4-3						
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

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

SHELBY TUBE TEST RESULTS

Page 2 of 2

Date 8/4/06

ROUTE FAP 303 DESCRIPTION P92-030-02 Bridge on IL 173 over Beaver Creek, .5 m. W. of Meier Road DRILLED BY ___

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

COUNTY Boone STRUCT. NO. 004-0020
Station W. Abut.

BORING NO. B-2 ST
Station 439 + 20
Offset 11.50ft Rt CL
Ground Surface Elev. 858.8 ft Tube Length ___ in
Begin Sampling Depth -0 ft Tube Diameter ___ in

SOIL TYPE, DESCRIPTION AND OBSERVATIONS	DEPTH (ft)	SPECIMEN (no)	UNIT WEIGHT (pcf)	STRENGTH (tsf)	MOISTURE (%)	TRIAXIAL DATA COHESION (psf)	PHI ANG. (deg)	TEST TYPE
Gray Clayey SIL w/SaL pockets & lenses		5-1	114.9		36.0	300	0	UU Tx
Gray Clayey SIL w/SaL pockets & lenses, top 14, to gray coarse SaL w/SIL pockets & gravel		5-2			14.1			CONS
No Recovery	15	5-3						
No Recovery		5-4						
	20							
	25							

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

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

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