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Illinois Department of Transportation

SOIL BORING LOG

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Date 7/21/10

ROUTE FAP 288 DESCRIPTION Relocated Illinois Route 3 LOGGED BY D.V. (TSI)

SECTION 520-1-2HVB LOCATION SE 1/4, NW 1/4, SW 1/4, SEC. 12, TWP. 2N, RNG. 12W, 3rd PM

COUNTY St. Clair GRILLING METHOD Hollow Stem Augers HAMMER TYPE

STRUCT. NO. 082-0334 & 0335
Station 643+55

BORING NO. ST-2 (Offset 12' W)
Station 648+16.72
Offset 56.78 LT
Ground Surface Elev. 406.90 ft

Surface Water Elev. ft
Stream Bed Elev. ft
Groundwater Elev.:
First Encounter 393.9 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/ft)	UCS Qu (tsf)	MOIST (%)
Shelby tube borehole, see Shelby Tube Test Results for data to 18.5 ft			
0	1.5 P		N/A
			22
			N/A
5	1.5 P		N/A
			N/A
			N/A
10	1.5 P		N/A
			N/A
			23
15	1.5 P		N/A
			N/A
			20
			N/A
			N/A
20			N/A
			N/A
			N/A
			N/A
			N/A
25			20
			N/A
			N/A
30			N/A
			N/A
			N/A
35			N/A
			N/A
			N/A
40			N/A
			N/A
			N/A
45			N/A
			N/A
			N/A
50			N/A
			N/A
			N/A
55			N/A
			N/A
			N/A
60			N/A
			N/A
			N/A
65			N/A
			N/A
			N/A
70			N/A
			N/A
			N/A
75			N/A
			N/A
			N/A
80			N/A
			N/A
			N/A
85			N/A
			N/A
			N/A
90			N/A
			N/A
			N/A
95			N/A
			N/A
			N/A
100			N/A
			N/A
			N/A

Brown, fine to medium SAND (Alluvium) (backfilled)

gray, thick wood pieces below 25.0 ft.

DEPTH (ft)	BLOWS (/ft)	UCS Qu (tsf)	MOIST (%)
0	3		
	2		
	3	NC	25

End of Boring 376.90

Brown, fine to medium SAND (Alluvium) 376.9

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 note (AASHTO T206)

IDOT Form 137 (Rev. 8-99)

BORING ST-2
(1 of 1)

Illinois Department of Transportation

SHELBY TUBE TEST RESULTS

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Date 7/21/10

ROUTE FAP 288 DESCRIPTION Relocated Illinois Route 3 DRILLED BY Geotechnology Inc.

SECTION 520-1-2HVB LOCATION SE 1/4, NW 1/4, SW 1/4, SEC. 12, TWP. 2N, RNG. 12W, 3rd PM

COUNTY St. Clair STRUCT. NO. 082-0334 & 0335
Station 643+55

BORING NO. ST-2 (Offset 12' W)
Station 648+16.72
Offset 56.78 LT

Ground Surface Elev. 406.90 ft Tube Length 30 in
Begin Sampling Depth 0 ft Tube Diameter 2.87 in

SOIL TYPE, DESCRIPTION AND OBSERVATIONS	DEPTH (ft)	SPECIMEN (no)	RECOVERY (%)	UNIT WEIGHT (pcf)	STRENGTH (tsf)	MOISTURE (%)	TRIAXIAL DATA: CONFINEMENT (tsf)	PHI ANG. (deg)	TEST TYPE
Dark brown, silty CLAY (Alluvium)	0-1	1	100			N/A			
	1-2			115.3	1.8	22			
Brown below 1.0 ft.	1-3					N/A			
	1-4					N/A			
Brown, silty clay LOAM	2-1	88				N/A			
	2-2					N/A			
	2-3					N/A			
	2-4					N/A			
	3-1	100				N/A			
gray/ish-brown below 4.5 ft.	3-2			119.2	1.3	23			
Brown, silty CLAY	3-3					N/A			
	3-4					N/A			
	4-1	50				N/A			
	4-2			123.5		26	0.8		UU
	4-3					N/A			
	4-4					N/A			
Brown, silty clay LOAM	5-1	71				N/A			
	5-2					29			
	5-3					N/A			
	5-4					N/A			
No recovery on Shelby tube 10.0 - 12.0 ft.	6-1	0				N/A			
	6-2					N/A			
	6-3					N/A			
	6-4					N/A			
See Soil Boring Log for ST-2 for data below 18.5 ft.	7-1	21				33			

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) or Consolidated Undrained (CU) test procedures (AASHTO T 296 or T 297) were used

IMPR FORM 1004A (Rev. 8-99)

BORING ST-2
(1 of 1)

JACOBS	USER NAME =	DESIGNED - TSI ENGINEERING	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS STRUCTURE NO. 082-0334 (N.B.) & 082-0335 (S.B.)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - TSI ENGINEERING	REVISED -			288	520-1-2HVB	ST. CLAIR	237	130
	PLOT DATE = 17-OCT-2012	DRAWN - M. MEYER	REVISED -		SHEET NO. C73 OF 76 SHEETS			CONTRACT NO. 76848		
FILE NAME = 0820334-76848-073-Boring Log 13.dgn		CHECKED - R. RILEY	REVISED -					ILLINOIS FED. AID PROJECT		