ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	★	VERMILION	122	84
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 16
17 SHEETS

★ (10-92-8HB-4)BR

Illinois Department of Transportation
Division of Highways
IDOT - Dist 5

SOIL BORING LOG

Page 1 of 2

Date 2-6-02

ROUTE FAI Route 74 DESCRIPTION 1.5 Miles West of Fithian LOGGED BY CNA

SECTION (10,92-8)(HB-1, HB-4)BR LOCATION NE, SEC. 11, TWP. 19N, RNG. 14W, 2nd PM

COUNTY Vermilion DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 092-0105
Station 50+00

BORING NO. 1 Mid. Pier
Station 49+49
Offset 21.0 ft Lt.
Ground Surface Elev. 667.30 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 649.8 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Brown Mottled Clay Loam (Weathered Till)	665.30				
Brown Clay Loam Till			1		
		-5	2 3	1.4 B	15.5
			2		
			5 6	1.9 B	14.6
			1		
	657.30	-10	3 6	2.6 B	13.6
Gray Clay Loam Till			0		
			3 5	2.1 B	11.5
			1		
		-15	3 4	2.6 B	11.3
			0		
	650.30		3 4	1.6 B	12.0
Gray Fine Sand & Silt Mixed			11		
	647.30	-20	18 30	–	11.0

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Brown Varved Silt & Clay			3		
			5 9	4.1 B	16.4
	643.80				
Gray Clay Loam Till			1		
		-25	4 5	2.8 B	14.2
			5		
		-30	10 15	6.2 B	10.9
			3		
		-35	11 15	10.1 B	8.8
	630.30				
Gray Varved Clay			3		
		-40	8 14	7.1 B	17.1

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)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
IDOT - Dist 5

SOIL BORING LOG

Page 2 of 2

Date 2-6-02

ROUTE FAI Route 74 DESCRIPTION 1.5 Miles West of Fithian LOGGED BY CNA

SECTION (10,92-8)(HB-1, HB-4)BR LOCATION NE, SEC. 11, TWP. 19N, RNG. 14W, 2nd PM

COUNTY Vermilion DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 092-0105
Station 50+00

BORING NO. 1 Mid. Pier
Station 49+49
Offset 21.0 ft Lt.
Ground Surface Elev. 667.30 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 649.8 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Gray Varved Clay (continued)	634.30				
Gray Varved Clay & Silt			3		
	628.30	-45	7 8	2.5 B	25.3
End of Boring		-50			

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)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
IDOT - Dist 5

SOIL BORING LOG

Page 1 of 2

Date 2-6-02

ROUTE FAI Route 74 DESCRIPTION 1.5 Miles West of Fithian LOGGED BY CNA

SECTION (10,92-8)(HB-1, HB-4)BR LOCATION NE, SEC. 11, TWP. 19N, RNG. 14W, 2nd PM

COUNTY Vermilion DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 092-0105
Station 50+00

BORING NO. 2 N. Abut.
Station 49+93
Offset 6.0 ft Rt.
Ground Surface Elev. 687.60 ft

Surface Water Elev. ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 667.1 ft ▼
Upon Completion ft
After Hrs. ft

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Brown Mottled Clay Loam (Embankment)	687.60				
			1		
		-5	2 5	0.3 B	15.7
	679.60				
Black/Gray/Brown Mottled Mixed Silty Clay Loam (Embankment)			1		
		-10	2 3	1.2 B	20.7
			1		
	676.60		2 4	1.3 B	20.1
Dark Gray Mottled Silty Clay Loam (Embankment)			1		
		-15	3 5	2.6 B	22.1
			1		
			3 5	2.5 B	25.5
	668.10		2		
		-20	3 5	2.0 B	19.9

Description	Elev.	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Gray/Green Mottled Silty Clay Loam (Embankment)					
Drilled Through Old Concrete Concrete Pavement @ 21'				2.0 E	
	663.60		3		
Black Mottled Silty Clay Loam (Embankment)		-25	6 6	2.0 E	21.7
	661.60				
Brown Clay Loam			1 1	2.0 E	
			0		
		-30	1 3	0.7 B	16.1
		▼			
			3		
			3 6	1.4 B	14.7
	654.60				
Gray Clay Loam Till			3		
		-35	5 6	2.7 B	12.0
			3		
		-40	6 9	2.7 B	11.3

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)

BBS, from 137 (Rev. 8-99)

LIN ENGINEERING, LTD.
210 N. Chestnut Chatham, Illinois 62629
(217) 483-4168 FAX (217) 483-4706
Designed By: MTH Checked By: STD Drawn By: JMD
Date: 11/02 File: 0920203.DGN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORING DATA
FAP ROUTE 840 (IL 49N)
OVER FAI RTE 74 (I-74)
SECTION (10-92-8HB-4) BR
VERMILION COUNTY
STA. 1160+20.53 (I-74)
STA. 50+00.00 (IL 49N)
STRUCTURE NO. 092-0203