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Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
AMERICAN GEOENGINEERING, INC.

Page 1 of 1 Date 6/27/05

ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.

SECTION LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Station

BORING NO. SPN-19
Station 2507+05.61
Offset 2.50ft LT
Ground Surface Elev. 1.43 ft

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt, 2"	1.23				
Concrete, 16"	-0.07				
Sub Base (FILL)	-1.57		12 / 8 / 4		
Very Stiff Gray SILTY CLAY LOAM		-5	2 / 4 / 6	2.5 B	17.0
			2 / 4 / 7	2.9 B	16.0
		-10	2 / 5 / 7	2.9 B	17.0
	-11.07		2 / 5 / 7	3.3 B	15.0
Very Stiff to Hard / Dense Gray SILTY CLAY LOAM / SILTY LOAM		-15	5 / 15 / 16	4.3 B	11.0
			6 / 8 / 10	3.6 S	12.0
		-20	6 / 18 / 11	6.1 B	12.0
Very Stiff to Hard / Dense Gray SILTY CLAY LOAM / SILTY LOAM (continued)			6 / 8 / 10	4.9 B	12.0
	-23.57	-25	8 / 7 / 7	4.7 B	11.0
End of Boring		-30, -35, -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)
BBS, from 137 (Rev. 8-99)

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SECTION LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Station

BORING NO. SPN-20
Station 2522+52.62
Offset 2.54ft LT
Ground Surface Elev. 2.94 ft

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt, 2"	2.76				
Concrete, 17"	1.36				
Sub Base (FILL)	-0.14		13 / 12 / 9		
Gray Silt and Gravel, little Clay (FILL)		-5	37 / >50 / -		5.0
			37 / >50 / -		7.0
		-10	38 / >50 / -		5.0
Auger Refusal at 11.5 feet	-8.56		>50		
End of Boring		-15, -20			

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SECTION LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Station

BORING NO. SPN-21
Station 2526+49.85
Offset 0.71ft LT
Ground Surface Elev. -2.85 ft

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt, 2"	-3.03				
Concrete, 17"	-4.43				
Sub Base (FILL)			13 / 8 / 5		
	-7.85	-5	2 / 3 / 4		
No Recovery					
Auger Refusal at 6.5 feet	-9.35		>50		
End of Boring		-10, -15, -20			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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AMERICAN GEOENGINEERING, INC.

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ROUTE F.A.I. I-90 / I-94 DESCRIPTION Dan Ryan Expressway (D-91-419-01) LOGGED BY R.P.

SECTION LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Station

BORING NO. SPN-22
Station 2617+95.98
Offset 0.08ft LT
Ground Surface Elev. 2.37 ft

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt, 7"	1.79				
Concrete, 18"	0.87				
Sub Base (FILL)	-0.63		15 / 16 / 18		
Soft to Stiff Gray CLAY Damaged Sample, No Qu		-5	5 / 6 / 6		18.0
			2 / 2 / 2	1.5 B	22.0
		-10	1 / 2 / 1	0.6 B	24.0
Damaged Sample, No Qu			1 / 2 / 2		22.0
		-15	1 / 2 / 1	0.4 B	21.0
			2 / 1 / 1	0.6 B	23.0
		-20	1 / 1 / 2	0.4 B	27.0
Soft to Stiff Gray CLAY (continued)			1 / 2 / 2	0.3 B	23.0
	-22.63	-25	1 / 2 / 3	0.4 B	23.0
End of Boring		-30, -35, -40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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SECTION LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Station

BORING NO. SPN-23
Station 2619+89.65
Offset 0.83ft LT
Ground Surface Elev. 0.28 ft

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt, 17"	-1.14				
Sub Base (FILL)	-3.22		7 / 8 / 6		
Soft to Stiff Gray CLAY		-5	6 / 5 / 2	2.0 B	21.0
			1 / 1 / 2	0.8 B	25.0
		-10	1 / 1 / 1	0.4 B	25.0
			1 / 1 / 2	0.6 B	19.0
		-15	1 / 2 / 2	0.6 B	24.0
			1 / 2 / 2	0.6 B	19.0
		-20	1 / 2 / 2	0.6 B	21.0
Soft to Stiff Gray CLAY (continued)			2 / 2 / 3	0.8 B	23.0
	-24.72	-25	2 / 2 / 2	0.6 B	23.0
End of Boring		-30, -35, -40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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SECTION LOCATION Chicago, Illinois

COUNTY Cook DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Station

BORING NO. SPN-24
Station 2621+94.76
Offset 1.42ft LT
Ground Surface Elev. -1.62 ft

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Asphalt, 7"	-2.20				
Concrete, 12"	-3.20				
Sub Base, some Clay (FILL)			20 / 17 / 13		
	-6.62	-5	5 / 4 / 1		21.0
Soft to Medium Stiff Gray CLAY			1 / 2 / 1	0.8 B	24.0
		-10	1 / 1 / 1	0.4 B	25.0
			1 / 1 / 1	0.4 B	24.0
		-15	1 / 1 / 1	0.4 B	22.0
			1 / 2 / 1	0.4 B	28.0
		-20	1 / 1 / 1	0.4 B	26.0
Soft to Medium Stiff Gray CLAY (continued)			2 / 1 / 2	0.4 B	24.0
	-26.62	-25	1 / 2 / 1	0.4 B	23.0
End of Boring		-30, -35, -40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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2 ADDED SHEET SB-04

CTE | AECOM

REVISIONS	
NAME	DATE
2 ADDENDUM #2	9-16-05

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST STREET TO 31ST STREET (NB EXPRESS LANES)

SOIL BORING LOGS

SCALE: NONE DRAWN BY: PHP
DATE: September 16, 2005 CHECKED BY: JAL

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