

Geo Services, Inc. Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-7838

SOIL BORING LOG PAGE 1 of 3
DATE 12/20/2010
LOGGED BY DR
GSI JOB No. 10023

ROUTE FAI 94 @ FAP 341 DESCRIPTION I-94/Stony Island Feeder Interchange Improvements #P-91-184-10
SECTION 1212B-1 LOCATION SEC. 11, 12, 13, & 14, TWP. 37 N., RNG. 14 E., 3rd P.M.
COUNTY Cook DRILLING METHOD Hollow Stem Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. SN 016-2438
Station _____
BORING NO. **S38-C**
Station: 217+18
Offset: 39.0' Left
Ground Surface Elev. 585.1

DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (blows/6")	UCS (tsf)	MOISTURE (%)
0				Surface Water Elev. n/a Stream Bed Elev. n/a	0			
0				Groundwater Elevation: First Encounter n/a Upon Completion n/a After _____ Hrs.	0			
10.5"	12			CLAY-gray-stiff to very stiff (A-6) 564.6	7			111
13.5"	3			10.5" ASPHALT, 13.5" CINDERS & STONE	9			
583.1	6	NP	21		11	5.0B		15
	4		99	CLAY LOAM-dark brown & gray- very stiff (A-6) Possible Fill	6			121
	5				9			
579.6	6	1.3B	22		11	6.6B		14
	3		102	CLAY LOAM-gray- very stiff to hard (A-6)	4			123
	54	2.6B	21		6			
	4		104		18	5.8B		14
	2				4			124
	2				6			
574.6	3	2.1B	20		7	5.8B		13
	2		108					
	3							
	4	2.7B	21					
	4		108					
	7							
	9	3.4B	21		19			117
	15				26			
	4		110		28	3.1B		16
	8							
	10	4.2B	20					
	4		110					
	8							
20	11	4.6B	20					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

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0				Surface Water Elev. n/a Stream Bed Elev. n/a	0			
0				Groundwater Elevation: First Encounter n/a Upon Completion n/a After _____ Hrs.	0			
	5		119	CLAY LOAM-gray- very stiff to hard (A-6)	5			119
	9				9			
	16	5.6B	13	Silt seams from -63.5' to -65.0'.	16	5.6B		13
	7		125		7			125
	10				10			
	14	5.6B	13		14	5.6B		13
	19		117		19			117
	26				26			
	28	3.1B	16		28	3.1B		16
	12		120		12			120
	21				21			
	23	6.2B	12		23	6.2B		12

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0				Surface Water Elev. n/a Stream Bed Elev. n/a	0			
0				Groundwater Elevation: First Encounter n/a Upon Completion n/a After _____ Hrs.	0			
	14		120	CLAY LOAM-gray- very stiff to hard (A-6)	14			120
	21				21			
	25	7.5B	13	SILT-gray-very dense (A-4)	25	7.5B		13
	60				60			
	85	NP	20		85	NP		20
	497.6			Drillers Observation: Apparent Bedrock 497.6	497.6			
	22			RUN 1 (-88.0' to -98.0') Silurian System Niagaran Series Dolomite	22			
	27	2.0B	14	Gray & fine grained with horizontal bedding, becoming lighter gray with horizontal to wavy bedding @ -92.6'. Horizontal fractures @ -92.6' & -95.4'. Recovery=91.0% R.Q.D.=88.5%	27	2.0B		14
	9		124		9			124
	14				14			
	17	5.25B	13		17	5.25B		13
	13		118		13			118
	14				14			
	16	4.0B	15		16	4.0B		15

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3:34:33 PM

4/30/2013

S:\1072_05_CADD\Structure\1 SN 0162471\CADD Sheets\0162471-013-5983.dgn

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbainc.com

USER NAME =	DESIGNED - TL	REVISED -
PLOT SCALE =	CHECKED - BAK	REVISED -
PLOT DATE = 03/29/2013	DRAWN - TL	REVISED -
	CHECKED - BAK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS III
STRUCTURE NO. 016-2471
SHEET NO. S-43 OF S-63 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	2012-059-BR	COOK	631	536
CONTRACT NO. 60J12				
ILLINOIS FED. AID PROJECT				