Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60563
(630) 355-2838

SOIL BORING LOG

PAGE 1 of 3
DATE 5/19-20/2011
LOGGED BY MR
GSI JOB No. 09165

ROUTE Il. RTE 19
DESCRIPTION Irving Park Rd., York Rd., CPR Grade Separation Pri. D-91-332-06
SECTION 32 WRS-5
LOCATION Addison Township T 40 N, R 11 E, NW 1/4 Section 13 , 3rd P.M.
COUNTY DuPage
DRILLING METHOD Hollow Stem Auger/ Rotary HAMMER TYPE CME Automatic

STRUCT. NO. –
Station –
BORING NO. SB-03
Station: 20299+14
Offset: 11.5' Right
Ground Surface Elev. 666.6

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 662.6
Upon Completion n/a
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
8.0" ASPHALT, 5.0" CONCRETE	665.5				
CLAY LOAM–dark brown & gray–very stiff (A–6) Fill	663.6		2, 3, 4	2.4B	101, 24
TOPSOIL–black	562.1		3, 4		109
CLAY LOAM–brown & gray–very stiff to hard (A–6)		–5	5, 3, 5	1.75P, 3.2B	28, 109, 22
			8, 8, 10	7.5B, 4.5+P	19, 100, 25
CLAY–gray–stiff to very stiff (A–6)	653.6	–15	3, 5, 7	2.5P	24, 103
			6, 8	2.0B	23
SANDY LOAM to LOAM–gray–medium dense (A–4)		–20	4, 7, 11	–	24
CLAY–gray–stiff to very stiff (A–6)			3, 4, 8	1.7B	109, 20
		–25	3, 6	1.3B	109, 20
		–30	3, 5, 7	2.0B	109, 20
		–35	3, 6, 8	1.2B	112, 17
	629.6	–40	5, 6, 8	NP	23

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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Upon Completion n/a
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
SANDY LOAM to LOAM–gray–medium dense (A–4)			3, 6		
		–45	5	NP	23
CLAY LOAM–gray–stiff (A–6)	619.6		8, 6		116
		–50	7	1.5B	14
			3, 6		118
		–55	8	1.8B	15
SILTY LOAM–gray–very dense (A–4)			3, 4	–	21
		–60			
CLAY LOAM–gray–stiff (A–6)			3, 6		111
		–65	8	1.1B	18
SAND–gray–medium dense (A–3)	599.6		5, 8		
		–70	10	NP	22
SILTY LOAM–gray–very dense (A–4)	594.6		18, 33		
		–75	48	NP	14
			50/1"		
		–80			NR

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Groundwater Elevation:
First Encounter 662.6
Upon Completion n/a
After ___ Hrs.

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Drillers Observation: Weathered Bedrock	566.1				
Drillers Observation: Apparent Bedrock	565.6				
SILTY LOAM–gray–very dense (A–4)	584.6				
Silurian System Niagaran Series Dolomite RUN 1 (–101.0' to –111.0') Light gray to gray with horizontal bedding. Fine grained with some light weathering in fractures. Numerous horizontal fractures throughout with some intersecting vertical fractures. 100.0% water loss @ –105.5'. Recovery=100.0% R.Q.D.=65.0%					
CLAY LOAM–gray–very dense (A–6)			31, 50/4"		
		–85		4.5P	11
			50/5"		
		–90		4.5+P	11
End Of Boring @ –111.0' Hollow Stem Augers To –10.0' Rotary Drilling To Completion CME Automatic Hammer 10.0' Of 4.0"ø Casing Used 103.0' Of 3.0"ø Casing Used	555.6				
			27, 39		
		–95	50/4" –		14
	567.6		42		
Drillers Observation: Weathered Bedrock		–100	50/2"	NP	14

RUN 1

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B–Bulge, S–Shear, P–Penetrometer) ST–Shelby Tube Sample VS–Vane Shear Test
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jmigus
11/2/2012
11:27:39 AM

HDR ENGINEERING, INC.	USER NAME = jmigus	DESIGNED -	REVISED -
	FILE NAME = 0220226-60B42-042-SBL.DGN	CHECKED -	REVISED -
	PLOT SCALE = NONE	DRAWN - RMA	REVISED -
	PLOT DATE = 11/2/2012	CHECKED - AMM	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
STRUCTURE NO. 022-0226
SHEET NO. 42 OF 43 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1321	32VB	DU PAGE	388	183

CONTRACT NO. 60W01
ILLINOIS FED. AID PROJECT