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SOIL BORING LOG

DATE 8/1/2011

LOGGED BY MD

GSI JOB No. 11092

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Artyber Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

ROUTE FAP RTE 307 DESCRIPTION II Rte 64 & II Rte 47 Intersection Improvements, Contract No. 62278

SECTION 126N-1 LOCATION Section 18, T 40 N, R 7 E, 3rd PM, Campton Township

COUNTY Kane DRILLING METHOD Hollow Stem Auger-Rotary HAMMER TYPE CME Automatic

STRUCT. NO. ---

Station ---

BORING NO. **RW-08**

Station 49+93

Offset 15.0' Right

Ground Surface Elev. 882.2

DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOW COUNT (/6")	UCS (tsf)	MOIST (%)	
				Surface Water Elev. <u>n/a</u>					
				Stream Bed Elev. <u>n/a</u>					
				Groundwater Elevation:					
				First Encounter <u>872.2</u>					
				Upon Completion <u>n/a</u>					
				After _____ Hrs. _____					
10.0"				PEAT-black (A-8) <u>861.7</u>					
	3		114	SILTY CLAY LOAM-dark gray-medium dense (A-4) <u>860.2</u>		4			
	5	3.5S				9			
	5	11.3%	12			6	0.25P	24	
				CLAY LOAM-brown-stiff to very stiff (A-6) Fill					
	1		99	Clayey SAND & GRAVEL-brown & gray-medium dense (A-2) <u>856.7</u>		7			
	1					9			
	-5	2	1.25B			12	-	9	
				TOPSOIL-black					
	1		81			4			
	2					8			
	1	0.6B	36			8	NP	19	
				Strong fuel petroleum odor from -28.5' to -30.0'.					
	1		84			12			
	1					12			
	-10	2	0.4B			-30	12	NP	12
				SAND & GRAVEL-brown & gray-medium dense (A-1)					
	0								
	0	0.25P	48						
				Organic SILTY LOAM-dark brown & gray-very loose (A-7) Wet					
	0					14			
	0					16			
	-15	0	0.25F			-35	18	NP	9
	1		72						
	0								
	0	0.3B	46						
				PEAT-black (A-8)					
	0					9			
	0					7			
	-20	1	-			-40	8	NP	16

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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				Surface Water Elev. <u>n/a</u>					
				Stream Bed Elev. <u>n/a</u>					
				Groundwater Elevation:					
				First Encounter <u>872.2</u>					
				Upon Completion <u>n/a</u>					
				After _____ Hrs. _____					
				SAND & GRAVEL-brown & gray-medium dense (A-1)					
	8					14			
	8			SAND & GRAVEL-brown & gray-medium dense to dense (A-1)		20			
	-45	8	NP			-65	18	NP	11
				SAND with GRAVEL-brown & gray-medium dense (A-1-a)					
	10					16			
	12					18			
	-50	9	NP			-70	13	NP	12
				End Of Boring @ -70.0' Hollow Stem Augers to -10.0' Rotary Drilling To Completion CME Automatic Hammer 10.0' Of 4.0" Ø Casing Used					
	8								
	11								
	-55	11	NP			-75			
				SAND & GRAVEL-brown & gray-medium dense to dense (A-1)					
	20								
	18								
	-60	17	NP			-80			

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