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

SOIL BORING LOG

PAGE 1 of 1
DATE 6/13/2011
LOGGED BY RT
GSI JOB No. 10191

ROUTE IL Rte. 25 & IL Rte. 31 DESCRIPTION Red Gate Road Over The Fox River
SECTION 04-00092-00-BR LOCATION SEC. 15, TWP. 40 N., RNG. 8 E., 3rd P.M., St. Charles Township
COUNTY Kane DRILLING METHOD Hand Auger HAMMER TYPE CME Automatic

STRUCT. NO. XXX
Station XX+XX
BORING NO. **RW-06A**
Station 305+60 IL Route 25
Offset 27.0' Left
Ground Surface Elev. 742.4

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-brown (A-6)	AS	–	13				
	AS	–	14				
738.9	AS	–	18				
Auger Refusal @ -3.5' End Of Boring Hand Auger							
-5				-25			
-10				-30			
-15				-35			
-20				-40			

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 PS-Pushed Spoon

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PAGE 1 of 1
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LOGGED BY MD
GSI JOB No. 10191

ROUTE IL Rte. 25 & IL Rte. 31 DESCRIPTION Red Gate Road Over The Fox River
SECTION 04-00092-00-BR LOCATION SEC. 15, TWP. 40 N., RNG. 8 E., 3rd P.M., St. Charles Township
COUNTY Kane DRILLING METHOD Hollow Stem Augers HAMMER TYPE CME Automatic

STRUCT. NO. XXX
Station XX+XX
BORING NO. **RW-07**
Station 307+15 IL Route 25
Offset 30.0' Left
Ground Surface Elev. 749.1

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 742.6
Upon Completion 730.6
After ___ Hrs.

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.5" ASPHALT, 6.5" CONCRETE 748.0							
SAND & GRAVEL-brown-medium dense (A-1) Fill 746.1	5 7 8	NP	4	CLAY LOAM-brown-stiff to very stiff (A-6)	5 8 10	3.0B	122 12
CLAY LOAM-brown-stiff to very stiff (A-6)	3 5 6	1.9B	125 12		6 9 11	3.4B	122 12
	3 5 8	1.75B	123 12	724.1 End Of Boring @ -25.0' Hollow Stem Augers CME Automatic Hammer			
	4 8 9	2.4B	122 13				
	5 7 9	2.4B	124 13				
	5 8 11	2.25B	123 12				
	6 8 10	3.25P	12				
	8 11 13	3.1B	121 12				
-20				-40			

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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 (%)
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SECTION 04-00092-00-BR LOCATION SEC. 15, TWP. 40 N., RNG. 8 E., 3rd P.M., St. Charles Township
COUNTY Kane DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. XXX
Station XX+XX
BORING NO. **RW-08**
Station 308+40 IL Route 25
Offset 7.0' Left
Ground Surface Elev. 750.1

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 744.1
Upon Completion 732.1
After ___ Hrs.

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
7.0" ASPHALT, 8.0" CONCRETE 748.8							
SAND & GRAVEL-brown-loose (Fill) 748.1	2 3 5	NP 1.25P	10	CLAY LOAM-brown-stiff to very stiff (A-6)	4 5 6	1.0B	120 13
CLAY LOAM-brown-stiff to hard (A-6)	6 9 13	4.9B	125 10		3 5 5	1.0P	13
				725.1 End Of Boring @ -25.0' Hollow Stem Augers CME Automatic Hammer			
744.1	3						
SILT-brown-loose (A-4) 742.1	3 3	NP	18				
CLAY LOAM-brown-stiff to very stiff (A-6)	2 3 7	1.9B	124 13				
	3 5 5	2.0P	13				
	2 3 5	1.5B	121 13				
	3 5 5	1.5B	123 13				
	3 5 7	1.2B	118 13				
-20				-40			

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 (%)
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benesch engineers · scientists · planners
Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10092

FILE NAME = IL25_WALLS_005_BoringLog2.dgn	USER NAME = akeaschall	DESIGNED - MFH	REVISED -	CITY OF ST. CHARLES	SOIL BORING LOGS (2 OF 5) RETAINING WALLS ALONG IL 25	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - AJK	REVISED -				04-00092-00-BR	KANE	440	303
	PLOT SCALE =	DRAWN - MFH	REVISED -					CONTRACT NO. 63650		
	PLOT DATE = 11/9/2011	CHECKED - HMA	REVISED -		SHEET NO. SR5 OF SR13 SHEETS		ILLINOIS	FED. AID PROJECT		