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 6/8/2011
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 Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. XXX
Station XX+XX
BORING NO. **RW-05**
Station 304+25 IL Route 25
Offset 7.0' Left
Ground Surface Elev. 731.2

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry to 5.0
Upon Completion n/a
After ___ Hrs. ___

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
7.0" ASPHALT, 6.0" CONCRETE	730.1				
			3		*119*
			5		
			6	4.9B	12
			4		*124*
			8	6.3S@	
		-5	13	14.1%	11
CLAY LOAM-brown-stiff to hard (A-6)			7		*120*
			11		
			14	3.2B	13
			7		*121*
			10		
		-10	11	2.9B	13
			6		*118*
			9		
			13	2.7B	14
			4		*122*
			5		
		-15	7	1.75B	12
			3		*123*
			5		
			7	1.8B	12
	713.2				
CLAY LOAM-gray-stiff (A-6)			5		
			7		
		-20	9	1.5P	11

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-gray-stiff (A-6)	710.7				
			7		
SILTY CLAY LOAM-brown-medium dense (A-4)			9		
			10	4.5P	11
	708.2				
SILT-brown-medium dense (A-4)			11		
			14		
	706.2	-25	18	NP	22
End Of Boring @ -25.0' Hollow Stem Augers To -5.0 Rotary Drilling To Completion CME Automatic Hammer 5.0' Of 4.0"ø Casing Used					
		-30			
		-35			
		-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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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-05A**
Station 304+25 IL Route 25
Offset 27.0' Left
Ground Surface Elev. 735.0

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

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
CLAY LOAM-brown (A-6)			AS	-	17
			AS	-	12
	731.5		AS	-	13
Auger Refusal @ -3.5' End Of Boring Hand Auger		-5			
		-10			
		-15			
		-20			

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
		-25			
		-30			
		-35			
		-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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SOIL BORING LOG

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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 Auger/Rotary HAMMER TYPE CME Automatic

STRUCT. NO. XXX
Station XX+XX
BORING NO. **RW-06**
Station 305+60 IL Route 25
Offset 7.0' Left
Ground Surface Elev. 738.2

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter Dry to 5.0
Upon Completion n/a
After ___ Hrs. ___

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
6.0" ASPHALT, 7.0" CONCRETE	737.1				
			2		*122*
			3		
			4	2.5B	12
			3		*121*
			6		
		-5	7	2.3B	12
			3		*120*
			5		
CLAY LOAM-brown-stiff to very stiff (A-6)			10	1.5B	13
			5		*119*
			8		
		-10	12	1.3B	14
			5		
			9		
			11	2.75P	19
			3		*119*
			5		
Sand seams from -13.5' to -15.0'.		-15	7	1.5B	12
			3		*123*
			6		
			8	1.1B	13
			3		*121*
			6		
		-20	9	1.0B	13

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
			3		*123*
			5		
CLAY LOAM-brown-stiff to very stiff (A-6)			6	1.1B	12
			3		*125*
			5		
	713.2	-25	5	1.0B	12
End Of Boring @ -25.0' Hollow Stem Augers To -5.0 Rotary Drilling To Completion CME Automatic Hammer 5.0' Of 4.0"ø Casing Used					
		-30			
		-35			
		-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
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Alfred Benesch & Company
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10092

FILE NAME = IL25_WALLS_004_BoringLog1.dgn	USER NAME = akeaschall	DESIGNED - MFH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - MFH	REVISED -
	PLOT DATE = 11/9/2011	CHECKED - HMA	REVISED -

CITY OF ST. CHARLES

SOIL BORING LOGS (1 OF 5)
RETAINING WALLS ALONG IL 25
SHEET NO. SR4 OF SR13 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	302
		CONTRACT NO. 63650		
		ILLINOIS FED. AID PROJECT		