Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-3848

SOIL BORING LOG

PAGE 1 of 1
DATE 10/11/2011
LOGGED BY DR
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 Diedrich Automatic
STRUCT. NO. --- Station ---
BORING NO. BW-03
Station 522+00
Offset Baseline
Ground Surface Elev. 706.0

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 686.5
Upon Completion 687.5
After ____ Hrs. ____

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				6.0" SANDY TOPSOIL–dark brown 706.5
	AS	–	19	
	2			
	2			
	3	2.0P	20	CLAY LOAM–brown–very stiff (A–6)
	2			
	4			
–5	5	2.25P	18	
				699.5
				SAND & GRAVEL–brown– medium dense (A–1)
	6			
	7			
	8	NP	3	
				697.0
	4			SAND with Gravel–brown & gray– medium dense (A–1–b)
	6			
–10	7	NP	3	
				694.5
	8			SAND & GRAVEL–brown & gray– medium dense (A–1)
	9			
	10	NP	2	
				692.0
	4			
	6			
–15	8	NP	3	SAND–gray–medium dense (A–3)
	5			
	11			
	14	NP	19	
	4			
	8			
–20	10	NP	18	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				SAND–gray–medium dense (A–3) XX
			6	
			15	
			25	NP 6
			3	
			6	SAND & GRAVEL–brown & gray– medium dense to dense (A–1)
–25			14	NP 8
			10	
			12	
			15	NP 12
			8	
			12	
–30			16	NP 5
				675.0
				End Of Boring @ –30.0' Hollow Stem Augers Diedrich Automatic Hammer
–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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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 Diedrich Automatic
STRUCT. NO. --- Station ---
BORING NO. BW-04
Station 524+00
Offset Baseline
Ground Surface Elev. 714.0

Surface Water Elev. n/a
Stream Bed Elev. n/a
Groundwater Elevation:
First Encounter 696.0
Upon Completion 696.0
After ____ Hrs. ____

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				6.0" CLAYEY TOPSOIL–dark brown 713.0
	AS	–	24	
	3			
	3			CLAYEY SAND–dark brown– loose (A–2/A–3)
	3	NP	9	
				711.0
	2			SAND with Gravel–brown & gray– loose (A–1–b)
	4			
–5	6	NP	3	
				708.5
	18			
	15			
	15		NR	
	8			
	11			
–10	11	NP	4	
				SAND & GRAVEL–brown & gray– medium dense to dense (A–1)
	4			
	5			
	5	NP	4	
	5			
	8			
–15	9	NP	3	
	8			
	11			
	10	NP	3	
	9			
	14			
–20	17	NP	3	

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	
				SAND & GRAVEL–brown & gray– medium dense to dense (A–1)
			11	
	14			
	16	NP	3	
				690.0
	9			
	10			
–25	10	NP	21	
				SAND–brown & gray– medium dense to dense (A–3)
	6			
	14			
	20	NP	18	
				686.0
	10			SAND & GRAVEL–brown & gray– dense (A–1)
	15			
–30	20	NP	14	
				684.0
				End Of Boring @ –30.0' Hollow Stem Augers Diedrich Automatic Hammer
–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

BOARDWALK SOIL BORING LOG

Soil Borings .02.dgn

FILE NAME =	DESIGNED - BD/WS	REVISED
	DRAWN - BD/JW/KC	REVISED -
USER NAME = TERRA	CHECKED - WS	REVISED -
PLOT DATE = 10/21/2011	DATE - 10/24/2011	REVISED -

TERRA ENGINEERING LTD.
225 W. OHIO ST., FOURTH FL.
CHICAGO, IL 60654
(312)467-0123

CITY OF ST. CHARLES

RED GATE ROAD
SOIL BORING LOGS – BOARDWALK (2 OF 2)

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	78
		CONTRACT NO. 63650		
	ILLINOIS FED. AID PROJECT			