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

SOIL BORING LOG

PAGE 1 of 3
DATE 5/19-20/2011
LOGGED BY RJ
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 Rotary HAMMER TYPE CME Automatic

STRUCT. NO. 045-6024
Station 115+15
BORING NO. **BR-03**
Station 113+65 Red Gate Road
Offset Baseline
Barge Deck Elevation 687.5

Surface Water Elev. 686.0
Stream Bed Elev. 680.0
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After ___ Hrs.

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
BARGE	686.0				
RIVER	680.0	-5			
GRAVEL with Sand-gray-medium dense (A-1-a)	674.5	-10	PS 7, 10, 10	NP	22
			10, 10, 10	NP	8
			10, 10, 10	NP	4
SAND & GRAVEL-brown & gray-medium dense (A-1)		-15	6, 9, 11	NP	12
			5, 9, 9	NP	11
		-20	13, 13, 13	NP	7
SAND & GRAVEL-medium dense (A-1)	667.0				
SAND & GRAVEL-gray-medium dense to dense (A-1)		-25	11, 11, 13	NP	9
			8, 10, 12	NP	9
			16, 16, 16	NP	4
		-30	11, 16, 13	NP	10
		-35	17, 17, 15	NP	11
		-40	8, 7, 4	NP	6

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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Stream Bed Elev. 680.0
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After ___ Hrs.

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SAND & GRAVEL-gray-medium dense to dense (A-1)	640.5	-45	8, 7, 14	NP	7
SAND with Gravel-gray-dense (A-1-b)	635.5	-50	7, 14, 16	NP	16
SAND & GRAVEL-gray-medium dense to dense (A-1)		-55	9, 11, 13	NP	6
		-60	8, 16, 18	NP	5
SAND & GRAVEL-gray-medium dense to dense (A-1)	625.5				
GRAVEL with Sand-gray-very dense (A-1-a)	615.5	-65	44, 50/3"	NP	9
		-70	50/6"	NP	7
SAND & GRAVEL-gray-very dense (A-1)		-75	50/1"		NR
		-80	50/3"		NR

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Stream Bed Elev. 680.0
Groundwater Elevation:
First Encounter n/a
Upon Completion n/a
After ___ Hrs.

Description	Elev.	Depth (ft)	Blows (/6")	UCS Qu (tsf)	Moist (%)
SAND & GRAVEL-gray-very dense (A-1)		-85	50/6"	NP	19
		-90	50/6"	NP	9
End Of Boring @ -90.0' Rotary Drilling CME Automatic Hammer	597.5				
		-95			
		-100			
		-105			
		-110			
		-115			
		-120			

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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NR-No Recovery PS-Pushed Spoon

PIER 3 SOIL BORING LOG

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

FILE NAME = 0456024_051_BoringLog2.dgn	USER NAME = akeaschall	DESIGNED - MFH	REVISED -
		CHECKED - AJK	REVISED -
	PLOT SCALE =	DRAWN - MFH	REVISED -
	PLOT DATE = 11/9/2011	CHECKED - AJK	REVISED -

ST. CHARLES FINDS YOU

CITY OF ST. CHARLES

SOIL BORING LOGS – PIER 3
STRUCTURE NO. 045-6024 RED GATE ROAD OVER THE FOX RIVER
SHEET NO. S51 OF S56 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	04-00092-00-BR	KANE	440	273
		CONTRACT NO. 63650		
		ILLINOIS FED. AID PROJECT		

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