



**BORING LOG RW-2A**

WEI Job No.: 722-23-02  
 Client: MACTEC Engineering and Consulting, Inc.  
 Project: Illinois Route 21 (Milwaukee Avenue)  
 Location: T44N R11E and T45N R11E

Datum: NGVD  
 Elevation: 660.00 ft  
 North: 2060145.47 ft  
 East: 1085194.06 ft  
 Station: 210+52.62  
 Offset: 42.99 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
658.0	24-inch thick, dark brown to black CLAY LOAM --TOPSOIL--	1	3	4.50	24								
655.5	Hard, brown SANDY CLAY LOAM	2	3	4.50	19								
653.0	Very loose, dark brown SAND	3	2	NP	20								
650.5	Loose, brown SANDY LOAM with trace gravel	4	1	NP	14								
650.5	Loose, brown SANDY GRAVEL	5	4	NP	11								
648.0	Loose to medium dense, brown and gray SAND with some GRAVEL	6	3	NP	25								
		7	3	NP	21								
		8	5	NP	8								
641.0	Boring terminated at 19.00 ft												

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling 11-23-2010	Complete Drilling 11-23-2010	While Drilling	10.00 ft
Drilling Contractor STS	Drill Rig CME 45	At Completion of Drilling	8.00 ft
Driller, B&S	Logger, A. Kurnia	Time After Drilling	NA
Drilling Method, 3.25 IDA HSA; Boring backfilled, upon completion		Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			



**BORING LOG RW-2B**

WEI Job No.: 722-23-02  
 Client: MACTEC Engineering and Consulting, Inc.  
 Project: Illinois Route 21 (Milwaukee Avenue)  
 Location: T44N R11E and T45N R11E

Datum: NGVD  
 Elevation: 659.50 ft  
 North: 2060081.22 ft  
 East: 1085163.55 ft  
 Station: 211+23.44  
 Offset: 41.81 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
657.5	24-inch thick, dark brown CLAY LOAM --TOPSOIL--	1	4	3.50	22								
657.5	Hard, brown SANDY CLAY LOAM	2	3	4.00	15								
655.0	Loose, brown SAND	3	2	NP	14								
650.8	Stiff, brown SILTY CLAY LOAM	4	3	1.25	15								
650.0	Loose, brown SANDY GRAVEL	5	4	NP	19								
647.5	Loose to medium dense, brown SAND	6	1	NP	28								
		7	2	NP	25								
		8	3	NP	21								
640.5	Boring terminated at 19.00 ft												

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling 11-23-2010	Complete Drilling 11-23-2010	While Drilling	10.00 ft
Drilling Contractor STS	Drill Rig CME 45	At Completion of Drilling	7.00 ft
Driller, B&S	Logger, A. Kurnia	Time After Drilling	NA
Drilling Method, 3.25 IDA HSA; Boring backfilled, upon completion		Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			



**BORING LOG RW-2C**

WEI Job No.: 950-12-01  
 Client: Christian-Roge & Associates, Inc.  
 Project: Illinois Route 21 (Milwaukee Avenue)  
 Location: T44N R11E and T45N R11E

Datum: NGVD  
 Elevation: 659.50 ft  
 North: 2059973.75 ft  
 East: 1085108.94 ft  
 Station: 212+43.36  
 Offset: 44.93 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/in)	Qu (tsf)	Moisture Content (%)
658.5	12-inch thick black SILTY CLAY LOAM --TOPSOIL--	1	P	0.50	25								
657.0	Medium stiff, brown SILTY CLAY	2	P	NP	22								
655.5	Brown SANDY LOAM	3	P	NP	23								
651.3	Fine to medium coarse, brown SAND	4	P	NP	20								
649.3	Stiff, brown and gray SILTY CLAY	5	P	1.00	24								
647.3	Brown SILTY LOAM	6	P	NP	23								
641.5	Fine to medium coarse, gray SAND	7	P	NP	13								
		8	P	NP	18								
		9	P	NP	19								
641.5	Boring terminated at 18.00 ft												

GENERAL NOTES		WATER LEVEL DATA	
Begin Drilling 04-27-2011	Complete Drilling 04-27-2011	While Drilling	4.00 ft
Drilling Contractor WTS	Drill Rig Hand Auger	At Completion of Drilling	4.00 ft
Driller, N & B	Logger, N. Boddy	Time After Drilling	NA
Drilling Method, Pneumatic Hand Auger and Geoprobe Sampler		Depth to Water	NA
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.			

**SOIL BORING LOGS  
 STRUCTURE NO. 049-W018**



FILE NAME = D:\68953-07-boring_logs.dgn	USER NAME =	DESIGNED - J.C.N./B.N.S.	REvised -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SOIL BORING LOGS STRUCTURE NO. 049-W018</b>	F.A.P. RTE. = 330	SECTION = 128R-3	COUNTY = LAKE	TOTAL SHEETS = 518	SHEET NO. = 300		
PLOT SCALE =	CHECKED - B.N.S.	REvised -	SHEET NO. S2-7 OF S2-7 SHEETS			CONTRACT NO. 60953		ILLINOIS FED. AID PROJECT				
PLOT DATE =	DRAWN - F.M.	REvised -										
	CHECKED - B.N.S./J.C.N.	REvised -										