

BORING LOG BC-4A

WEI Job No.: 722-23-01
 Client: MACTEC Engineering and Consulting, Inc.
 Project: FAP 330, IL 21 (Milwaukee Avenue)
 Location: Section 128 R-3, Lake County, Illinois

Datum: NAV88
 Elevation: 666.66 ft
 North: 2057661.54 ft
 East: 1084443.29 ft
 Station: 237+17
 Offset: 54 LT

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 (%)
663.7	Soft, dark brown SANDY CLAY LOAM --FILL--	0	1	3	0.25	29	663.7	Medium dense to dense, brown SANDY LOAM, little gravel	5	2	12	NP	13
663.7		5	3	5			652.7	Dense, white GRAVEL	15	6	21	NP	11
663.7		10	4	13	NP	14	651.2	Very dense, gray, fine SAND	20	7	35	NP	20
663.7		15	5	22	NP	10	646.7	Boring terminated at 20.00 ft	20	8	22	NP	17

GENERAL NOTES
 Begin Drilling 04-18-2001 Complete Drilling 04-18-2001
 Drilling Contractor Rock and Soil Drilling Drill Rig Acker 82
 Driller: Dave Logger: T. Chen Checked by: P. Wang
 Drilling Method: 4.25" ID HSA; backfilled w/ bentonite chip.

WATER LEVEL DATA
 While Drilling 4.00 ft
 At Completion of Drilling 2.00 ft
 Time After Drilling 24 hours
 Depth to Water NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

BORING LOG BC-4B

WEI Job No.: 722-23-01
 Client: MACTEC Engineering and Consulting, Inc.
 Project: FAP 330, IL 21 (Milwaukee Avenue)
 Location: Section 128 R-3, Lake County, Illinois

Datum: NAV88
 Elevation: 667.67 ft
 North: 2057650.86 ft
 East: 1084497.61 ft
 Station: 237+39
 Offset: 9 LT

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 (%)
647.2	4-inch thick ASPHALT --PAVEMENT--	0	1	14	1.25	15	647.2	Very dense, gray, coarse SAND, trace to little gravel	9	9	12	NP	
647.2	11-inch thick CONCRETE --PAVEMENT--	1	15	8			645.7	Boring terminated at 22.00 ft	20	8	34	NP	10
647.2	Medium dense, brown SANDY GRAVEL --FILL--	1	2	3	0.75	17							
647.2	Stiff to medium stiff black SILTY CLAY, trace gravel --FILL--	2	3	2									
647.2		5	4	7	NP	11							
647.2		10	5	8	NP	13							
647.2		15	6	4	NP	11							
647.2		20	7	9	NP	9							
647.2		25	8	12	NP	10							
647.2		30											
647.2		35											
647.2		40											

GENERAL NOTES
 Begin Drilling 04-09-2001 Complete Drilling 04-09-2001
 Drilling Contractor Rock and Soil Drilling Drill Rig D-120
 Driller: Dave Logger: T. Chen Checked by: P. Wang
 Drilling Method: 2.75" ID HSA; backfilled w/ bentonite chip and A blocktop.

WATER LEVEL DATA
 While Drilling 9.00 ft
 At Completion of Drilling 4.5*
 Time After Drilling 24 hours
 Depth to Water NA
 The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

BORING LOG BC-4C

WEI Job No.: 722-23-01
 Client: MACTEC Engineering and Consulting, Inc.
 Project: FAP 330, IL 21 (Milwaukee Avenue)
 Location: Section 128 R-3, Lake County, Illinois

Datum: NAV88
 Elevation: 665.09 ft
 North: 2057658.38 ft
 East: 1084545.72 ft
 Station: 237+41
 Offset: 54 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 (%)
661.1	Stiff, dark brown CLAY LOAM	0	1	7	1.00	49	661.1	Medium dense to dense gray SANDY LOAM, little to some gravel	5	2	10	NP	14
661.1		10	3	10	NP	15							
661.1		15	4	12	NP	15							
661.1		20	5	10	NP	14							
661.1		25	6	12	NP	11							
661.1		30	7	20	NP	11							
661.1		35	8	13	NP	17							
661.1		40											

GENERAL NOTES
 Begin Drilling 04-18-2001 Complete Drilling 04-18-2001
 Drilling Contractor Rock and Soil Drilling Drill Rig Acker 82
 Driller: Dave Logger: T. Chen Checked by: P. Wang
 Drilling Method: 4.25" ID HSA; backfilled w/ bentonite chip.

WATER LEVEL DATA
 While Drilling 5.50 ft
 At Completion of Drilling 4.00 ft
 Time After Drilling 24 hours
 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. 049-0242
OUTLET NO. 19

