

**BORING LOG 3RW3-B-4**

WEI Job No.: 201-40-01  
 Client: McDonough Associates Inc.  
 Project: US 45, Segment 3  
 Location: RW3, Cook Co., IL

Datum: NGVD  
 Elevation: 705.80 ft  
 North: 1813204.06 ft  
 East: 1115227.02 ft  
 Station: 324+01.48  
 Offset: 72.87 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
705.3	6-inch thick, brown SILTY CLAY LOAM --TOPSOIL-- Very stiff to hard, brown and gray SILTY CLAY, trace gravel	0-1	1	10 10	2.54 3	16	705.3		0				
		1-5	2	10 10	5.17 3	18			1				
		5-7	3	10 10	5.25 3	24			2				
		7-10	4	10 10	5.41 3	22			3				
694.9	6-inch thick, brown SILT Stiff, gray SILTY CLAY LOAM, trace gravel	10-15	5	10 10	1.80 3	16			4				
690.6	Boring terminated at 15.00 ft	15-25	6	10 10	1.50 3	17			5				

**GENERAL NOTES**

Begin Drilling: 10-24-2011 Complete Drilling: 10-24-2011  
 Drilling Contractor: Groff/WTS Drill Rig: CME LL-60 ATV  
 Driller: K&K Logger: B. Wilson Checked by: C. Marin  
 Drilling Method: 3.25" IDA HSA; Boring backfilled upon completion

**WATER LEVEL DATA**

While Drilling: 11.00 ft  
 At Completion of Drilling: DRY  
 Time After Drilling: NA  
 Depth to Water: NA

**BORING LOG 3RW3-B-5**

WEI Job No.: 201-40-01  
 Client: McDonough Associates Inc.  
 Project: US 45, Segment 3  
 Location: RW3, Cook Co., IL

Datum: NGVD  
 Elevation: 706.60 ft  
 North: 1813275.11 ft  
 East: 1115229.01 ft  
 Station: 324+72.54  
 Offset: 71.29 LT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
706	Brown SILTY LOAM Very stiff to hard, brown and gray SILTY CLAY LOAM, trace gravel	0-1	1	10 10	4.50 10	18	706		0				
		1-5	2	10 10	4.50 10	15			1				
		5-8	3	10 10	6.97 11	16			2				
		8-10	4	10 10	5.41 10	16			3				
693.6	Loose, gray SAND --Moist--	10-15	5	10 10	2.30 10	17			4				
691.1	Stiff, gray SILTY CLAY LOAM, trace gravel	15-17	6	10 10	NP 4	17			5				
688.1	Boring terminated at 17.50 ft	17-25	7	10 10	1.64 10	17			6				

**GENERAL NOTES**

Begin Drilling: 09-23-2011 Complete Drilling: 09-23-2011  
 Drilling Contractor: WTS Drill Rig: D-50 TMR  
 Driller: K&K Logger: B. Wilson Checked by: C. Marin  
 Drilling Method: 3.25" IDA HSA; Boring backfilled upon completion

**WATER LEVEL DATA**

While Drilling: DRY  
 At Completion of Drilling: DRY  
 Time After Drilling: NA  
 Depth to Water: NA

**BORING LOG 3RW4-B-1**

WEI Job No.: 201-40-01  
 Client: McDonough Associates Inc.  
 Project: US 45, Segment 3  
 Location: RW4, Cook Co., IL

Datum: NGVD  
 Elevation: 706.20 ft  
 North: 1813067.35 ft  
 East: 1115359.61 ft  
 Station: 322+65.53  
 Offset: 60.49 RT

Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)	Profile Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample No.	SPT Values (blows/6 in)	Qu (tsf)	Moisture Content (%)
703.2	Medium dense, gray CRUSHED STONE --FILL--	0-1	1	5 6 10	NP	6	703.2		0				
		1-5	2	10 10	2.87 S	22	679.7	Medium dense, gray medium SAND to SANDY LOAM, little gravel	0-1	11	4 7 6	NP	22
		5-10	3	10 10	1.72 3	27	674.7	Very stiff to hard, gray SILTY CLAY, trace gravel	1-5	12	5 6 10	NP	14
698.2	Loose, gray SANDY LOAM	10-15	4	10 10	NP	25			30				
695.7	Very stiff, brown and gray SILTY CLAY, trace gravel	15-35	5	10 10	3.69 10	18			35				
687.5	Rock fragments in nose of spoon, possible boulder Split spoon refusal at 38.75' Boring terminated at 38.75 ft	35-40	6	10 10	2.13 10	20			40				
		40-45	7	10 10	3.36 10	17			45				
		45-50	8	10 10	2.57 10	17			50				
		50-55	9	10 10	2.79 10	15							
		55-60	10	10 10	3.03 10	16							

**GENERAL NOTES**

Begin Drilling: 10-21-2011 Complete Drilling: 10-21-2011  
 Drilling Contractor: Groff/WTS Drill Rig: CME LL-60 ATV  
 Driller: K&K Logger: B. Wilson Checked by: C. Marin  
 Drilling Method: 3.25" IDA HSA; Boring backfilled upon completion

**WATER LEVEL DATA**

While Drilling: 8.00 ft  
 At Completion of Drilling: 21.00 ft  
 Time After Drilling: NA  
 Depth to Water: NA

Note:  
 For retaining wall key plan see sheet 1.  
 For typical wall details see sheet 2.  
 See individual wall sheets for boring locations.