

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 (%)
681.5	5-inch thick, dark brown SILTY LOAM --TOPSOIL-- Loose, brown and gray SILTY LOAM	0-5	1	3 3 3	NP	12	681.5		0	11	4 2 4	1.72 B	15
679.5	Hard, brown and gray SILTY CLAY LOAM, trace gravel	5-10	2	7 8 8	4.50	10	679.5		5	12	3 3 6	1.72 B	13
671.5	Hard, gray CLAY	10-15	3	7 9 12	5.41	8	671.5		10	13	1 3 6	0.66 B	12
666.5	Very stiff, brown and gray SILTY CLAY LOAM, trace gravel	15-20	4	4 7 8	6.72	15	666.5		15	14	7 8 10	1.25 B	15
662.5	Wet, gray, medium SAND	20-25	5	4 7 8	4.51	29	662.5		20	15	7 8 11	4.50 P	12
651.5	Medium stiff to hard, gray SILTY CLAY LOAM, trace to some gravel	25-30	6	5 5 5	4.26	16	651.5		25	16	4 7 9	1.50 P	16
635.0	Medium dense, gray SILTY LOAM, little gravel	30-35	7	3 4 7	3.53	16	635.0		30	17	5 7 9	3.69 B	17
632.0		35-40	8	5 5 5	4.26	16	632.0		35	18	1 4 4	1.97 B	20
		40-45	9	5 5 5	1.72	14			40	19	4 2 4	1.50 P	16
		45-50	10	6 4 6	4.76	19			45	20	1 4 4	1.97 B	20
		50-55	11	6 4 6	4.76	19			50	21	4 2 4	1.50 P	16

**GENERAL NOTES**  
 Begin Drilling 10-13-2011 Complete Drilling 10-13-2011  
 Drilling Contractor Groff Drill Rig CME LL-60 ATV  
 Driller K&R Logger B. Wilson Checked by C. Marin  
 Drilling Method 3.25" IDA HSA; Boring backfilled upon completion

**WATER LEVEL DATA**  
 While Drilling 20.00 ft  
 At Completion of Drilling 32.00 ft  
 Time After Drilling NA  
 Depth to Water NA

Boring terminated at 50.00 ft

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 (%)
672.8	Stiff, brown and gray SILTY CLAY, some roots	0-5	1	3 3 3	1.50	21	672.8		0	12	2 3 5	1.07 B	19
668.7	Medium stiff, dark brown organic SILTY CLAY	5-10	2	1 3 3	0.82	23	668.7		5	13	3 4 7	2.87 B	14
667.0	Stiff, brown and gray SILTY CLAY LOAM	10-15	3	1 2 2	1.15	28	667.0		10	14	2 4 5	2.62 B	19
665.0	Medium stiff, brown organic SILTY CLAY, with seams of sand	15-20	4	0 1 1	0.90	34	665.0		15	15	2 6 9	3.61 B	16
654.5	Very soft, black and gray SILTY CLAY LOAM -L <sub>c</sub> (%)=48, P <sub>c</sub> (%)=25- --%Gravel=0.0- --%Sand=3.8- --%Silt=73.3- --%Clay=22.9- --A-7-6 (25)- Organic Content (%) = 5.2	20-25	5	0 0 0	0.68	44	654.5		20	16	3 5 8	2.00 P	16
	Stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	25-30	6	0 0 0	0.77	42			25	17	5 7 9	3.69 B	17
		30-35	7	0 0 0	0.25	57			30	18	1 4 4	1.97 B	20
		35-40	8	0 0 0	0.25	50			35	19	4 2 4	1.50 P	16
		40-45	9	0 0 1	0.25	33			40	20	1 4 4	1.97 B	20
		45-50	10	1 4 4	1.97	20			45	21	4 2 4	1.50 P	16
		50-55	11	4 2 4	1.50	16			50	22	1 4 4	1.97 B	20

**GENERAL NOTES**  
 Begin Drilling 10-14-2011 Complete Drilling 10-14-2011  
 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 26.00 ft  
 At Completion of Drilling DRY  
 Time After Drilling NA  
 Depth to Water NA

Boring terminated at 50.00 ft

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 (%)
668.7	Very stiff, dark brown SILTY CLAY, trace roots --TOPSOIL--	0-5	1	2 3 4	2.46	27	668.7		0	11	7 12 8	2.13 B	24
664.0	Stiff to hard, brown and gray SILTY CLAY, trace gravel	5-10	2	3 3 3	1.07	26	664.0	4" seam of gray gravelly sand (26.8-27.12)	10-15	12	7 8 10	2.95 B	14
664.0	Very stiff, gray CLAY	10-15	3	4 6 7	5.99	17	664.0		15	13	3 4 8	1.80 B	13
661.5	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace gravel	15-20	4	2 3 5	2.79	24	661.5		20	14	3 7 10	2.71 B	13
654.0	Loose, gray medium SAND, with seams of silt and clay	20-25	5	2 3 4	1.80	19	654.0	Medium dense, gray SILTY LOAM, little gravel	25-30	15	3 5 9	NP	12
651.5	Stiff to very stiff, gray SILTY CLAY to SILTY CLAY LOAM, trace to little gravel	25-30	6	2 3 4	1.80	19	651.5		30	16	4 8 10	NP	11
630.0		30-35	7	2 3 4	1.80	19	630.0		35	17	1 4 4	1.97 B	20
622.0		35-40	8	0 1 4	NP	19	622.0		40	18	1 4 4	1.97 B	20
		40-45	9	3 5 6	2.05	18			45	19	4 8 10	NP	11
		45-50	10	1 4 5	1.56	22			50	20	4 8 10	NP	11

**GENERAL NOTES**  
 Begin Drilling 10-14-2011 Complete Drilling 10-14-2011  
 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 18.00 ft  
 At Completion of Drilling 31.00 ft  
 Time After Drilling NA  
 Depth to Water NA

Boring terminated at 50.00 ft

100 S. WACKER DR.  
 CHICAGO, IL 60606  
 TEL (312) 939-1000  
 FAX (312) 939-4198

**URS**