

Contract No.: 60931

**BRIDGE FOUNDATION SOIL BORING LOG**  
midwest engineering services, inc.

Route: FAP 866      Boring: N-4  
 Section: 4N-1      Page: 1 of 2  
 County: Lake      Date of Boring: September 24, 2003  
 Structure No.      Drilled By: Waukesha  
 Station: 1+175      Checked By: MB  
 Offset: 16.0 m North      MES Project No: 16-33011

Ground Water Elevation: when drilling: 5 Ft. at completion: Dry	DEPTH (ft.)	BLOW COUNTS (6")	QU (tsf)	MC (%)	Soil Description	DEPTH (ft.)	BLOW COUNTS (6")	QU (tsf)	MC (%)
					12" Black Silty CLAY, Topsoil				
				14	Brown Silty CLAY, with Sand and Gravel, Fill		3	1.0B	19
				14			4		
				33	Gray Silty SAND possible buried topsoil at 6.5'		2	1.0B	17
				33			4		
				100	Greenish-gray Silty CLAY				
		WH			LL = 82, PI = 29 (CH)		3		
		1					4		
				30	Gray Silty CLAY, little Sand and Gravel		3		
				30			3		
				17	Gray Silty CLAY, little Sand and Gravel		7	1.8B	16
				17			6		
				20	Gray Silty CLAY, little Sand and Gravel LL = 42, PI = 24 (CL)		3	1.8B	20
				20			3		
				21	LL = 29, PI = 14 (CL)		4	0.5B	21
				21			2		
				15	LL = 29, PI = 14 (CL)		4	2.3B	15
				15			6		
				18	LL = 29, PI = 14 (CL)		3	1.1B	18
				18			5		
				19	LL = 29, PI = 14 (CL)		7	0.5B	19
				19			9		
				19	LL = 29, PI = 14 (CL)		11		
				19			5		
				19	LL = 29, PI = 14 (CL)		8		
				19			6		

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample      Type Failure      B-Bulge  
 MC - Moisture Content - Percent of dry weight      Qu test      S-Shear  
 QU - Unconfined Compressive Strength- tons per square foot (tsf)      P-Penetrometer

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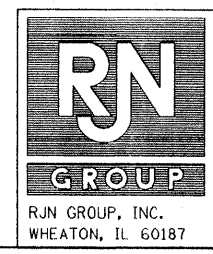
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					Gray Silty CLAY, little Sand and Gravel				
				17	Gray Silty CLAY, little Sand and Gravel		7	2.4B	17
				17			7		
				19	Gray Silty CLAY, little Sand and Gravel		8	0.8B	19
				19			10		
				18	Gray Silty CLAY, little Sand and Gravel		5	2.7B	18
				18			8		
				17	Gray Silty CLAY, little Sand and Gravel		6	2.5B	17
				17			8		
				17	Gray Silty CLAY, little Sand and Gravel		6	2.5B	17
				17			8		

END OF BORING AT 71.5 FEET

NOTES:  
1. Auger Sample collected at 1 to 2.5 ft.

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 BORINGS - 8  
 IL RTE. 132 LAND BRIDGE  
 FAP RTE 866 - SEC 4N-1  
 LAKE COUNTY  
 STA. 1+143.3  
 SN 049-D002      DRAWN BY      BLB  
 DATE: 11-06-09      CHECKED BY      WJV

RJN GROUP, INC.  
WHEATON, IL 60187