ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 866	4N-1	LAKE	165	87
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 17 of 22

Contract No.: 60931

BRIDGE FOUNDATION SOIL BORING LOG
midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.
Station: 1+167
Offset: 7.92 m South

Boring: S-3
Page: 1 of 2
Date of Boring: September 24, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No: 16-33011

Ground Water Elevation:
when drilling: 7.5 Ft.
at completion: Dry
Caved at 49 Ft.
Ground Surface Elevation: 789.9 Ft.

Description	DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)
Crushed Stone, Fill				6
Poor Recovery @ 2.5-4'		7 6 11		14
Gray SILT, little Sand	5	3 1 1		144
Black PEAT		1 1 1		186
Gray Silty CLAY	10			
LL = 34, PI = 19 (CL)		2 3 5	1.0 B	18
Gray Silty CLAY, little Sand and Gravel Poor Recovery @ 15-16.5'	15	2 4 4	0.8B	16
		4 4 6	2.4 B	15
	20	3 5 8	3.5 B	12
Gray Silty CLAY, with Sand and Gravel		4 4 7	2.5B	17
	25	3 4 6	1.5 B	15

Description	DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)
Poor Recovery @ 27.5-29'		22 7 8	2.3B	14
	30	9 8 9	2.6 B	15
Gray Silty CLAY, little Sand and Gravel	35	15 16 20		14
No Recovery @ 35-36.5', 40-41.5', or 45-46.5' Possible Cobbles	40	11 11 11		14
	45	9 10 13		17
LL = 4, PI = 17 (CL)	50	4 5 8	1.9B	16

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure: B-Bulge
Qu test: S-Shear
P-Penetrometer

BRIDGE FOUNDATION SOIL BORING LOG
midwest engineering services, inc.

Route: FAP 866
Section: 4N-1
County: Lake
Structure No.
Station: 1+167
Offset: 7.92 m South

Boring: S-3
Page: 2 of 2
Date of Boring: September 24, 2003
Drilled By: Waukesha
Checked By: MB
MES Project No: 16-33011

Description	DEPTH (ft.)	BLOWS (6")	Q_u (tsf)	MC (%)
Gray Silty CLAY, little Sand and Gravel	55	5 6 9	2.0 P	15
	60	6 8 10	2.3 B	16
END OF BORING AT 61.5 FEET				

NOTES:
1. Auger Sample collected at 1 to 2.5 ft.
2. Shelby Tube sample collected at 12.5 to 14 ft.

N - Standard Penetration Test (SPT) = Sum of last two blow values in sample
MC- Moisture Content - Percent of dry weight
Qu- Unconfined Compressive Strength- tons per square foot (tsf)

Type Failure: B-Bulge
Qu test: S-Shear
P-Penetrometer

RJN GROUP
RJN GROUP, INC.
WHEATON, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORINGS - 3
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