CONTRACT NO. 62037

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 303 IL 173	134(B&B-2)R-1	LAKE	137	182
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 22
23 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GROUND ENGINEERING CONSULTANTS, INC.
STRUCTURE BORING LOG

DATE: 9-26-01

ROUTE: IL-173 DESCRIPTION: Bridge B Improvement, IL-173 over E. Boat Channel
SECTION: FAP 303 STRUCTURE NO: 049-0056 DRILLED BY: JH
COUNTY: Lake LOCATION: IL-173 over E. Boat Channel S. 12 TWP. 46N RNG. 9E

Boring No. B-1
Station
Offset m
Surface Elev. (m)

Surface Water Elev. 3.05
Groundwater Elev.:
when drilling 3.81
at completion
after Hrs.

Description	Depth	Blows	Qu kPa	W %
304mm asphalt				
152mm concrete				
FINE SAND, tr. gravel, brown, medium dense too loose		3 4 -		
	-1.5	3 3 3		
		5 6 6		
	-3.0	3 3 2		
PEAT, black, soft		2 2 2	102	
SILTY CLAY, tr. peat & gravel, gray, stiff	-4.5	2 3 4	144 B	36
		4 5 6	134 B	28
SILTY CLAY, tr. sand & gravel, gray, stiff	-6.0	4 4 4	105 B	27
MEDIUM TO COARSE SAND, tr. gravel & cobbles, gray, medium dense, wet		8 14 10		
	-7.5	9 9 12		
MEDIUM TO COARSE SAND, tr. gravel & cobbles, gray, medium dense, wet	-9.0	3 3 3	12 13 16	
	-10.5	3 3 2	12 12 14	
FINE TO MEDIUM SAND, tr. gravel & cobbles, brown, medium dense	-12.0	2 3 4	15 12 14	
	-13.5	4 5 6	7 9 12	
	-15.0	9 9 12	13 9 9	

Boring No. B-1
Station
Offset m
Surface Elev. (m)

Description	Depth	Blows	Qu kPa	W %
FINE TO MEDIUM SAND, tr. gravel & cobbles, brown, medium dense	-16.5	15 12 12		
FINE TO MEDIUM SAND, tr. gravel & cobbles, brown, dense	-18.0	16 16 16		
	-19.5	14 16 14		
END OF BORING	-21.0			
	-22.5			

SPT. (N) = Sum of last two blow values in sample. (Qu) B = Bulge S = Shear P = Penetration Test
Stations, Depths, Offset, and Elevation are in Meters

GROUND ENGINEERING CONSULTANTS, INC.
STRUCTURE BORING LOG

DATE: 9-27-01

ROUTE: IL-173 DESCRIPTION: Bridge B Improvement, IL-173 over E. Boat Channel
SECTION: FAP 303 STRUCTURE NO: 049-0056 DRILLED BY: RE
COUNTY: Lake LOCATION: IL-173 over E. Boat Channel S. 12 TWP. 46N RNG. 9E

Boring No. B-3
Station
Offset m
Surface Elev. (m)

Surface Water Elev. 2.36
Groundwater Elev.:
when drilling 2.59
at completion
after Hrs.

Description	Depth	Blows	Qu kPa	W %
304mm asphalt				
152mm concrete over sand & gravel, brown, dense to loose		2 2 -		
	-1.5	3 2 2		
		3 2 3		
SAND WITH GARVEL, grayish brown, loose	-3.0	5 3 2		
SAND WITH GARVEL, blackish gray, very loose		5 2 1		
	-4.5	1 1 2		
PEAT, tr. small gravel, black, very soft		1 1 1	131	
SILTY CLAY, tr. organic gray, very soft, very wet	-6.0	1 1 1	10 B	34
		1 1 1	10 B	35
	-7.5	1 1 1	10 B	36
SILTY CLAY, gray, very soft		1 1 1	10 B	36
	-9.0	1 1 1	10 B	36
	-10.5	1 1 1	10 B	34
SILTY CLAY, with sand seams, tr. gavel, gray, very stiff	-12.0	6 10 12	201 B	20
SAND & GRAVEL, gray, dense	-13.5	17 17 24		
	-15.0	19 19 16		
SAND & GRAVEL, gray, dense	-16.5	17 12 19		
SAND WITH FINE GRAVEL, brown & gray, dense	-18.0	15 16 19		
	-19.5	14 12 18		
END OF BORING	-21.0			
	-22.5			

SPT. (N) = Sum of last two blow values in sample. (Qu) B = Bulge S = Shear P = Penetration Test
Stations, Depths, Offset, and Elevation are in Meters

DESIGNED	JRF
CHECKED	RCJ
DRAWN	RDS
CHECKED	JRF

AppliedTechnologies

3116-049-0198.dgn

SOIL BORING LOGS B-1 & B-3
FAP 303 IL. ROUTE 173
OVER EAST BOAT CHANNEL
SECTION 134(B&B-2)R-1
LAKE COUNTY
STATION 26+271.906
STRUCTURE NO. 049-0198