STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation
Boring Log
Sheet 1 of 2

FAP 776 (IL 242) Over Stream
Route: P 776 (IL 242 Structure Number: 033-0028 (existing) Date: 10/1/2007
Section 102B Bored By: RM
County: Hamilton Location: 5 Mi S Wayne County line Checked By: RM

Boring No 1-S
Station 659+60
Offset 9' Lt CL
Ground Surface 387.8 Ft

Surf Wat Elev: 375.9
Ground Water Elevation
when Drilling 357.8
At Completion
At: Hrs:

Description	DEPTH	BLOWS	Qu tsf	W%
Asphalt, Concrete and soil				
385.8				
Very soft, very moist, grey, Silty Clay A-6		WH		
		1	0.2E	22
		1		
383.3				
Very stiff, moist, grey mottled brown, Silty Clay to Silty Clay Loam A-6	5.0	1		
		4	2.1B	23
		4		
380.8				
Stiff, moist to very moist, grey mottled brown, Silty Clay to Silty Clay Loam A-6		1		
		2	1.5B	24
		2		
378.3				
Stiff, moist to very moist, grey mottled brown, Silty Clay A7-6	10.0	1		
		3	1.1B	24
		3		
		1		
		3	1.4S	24
		5		
373.3				
Stiff, moist to very moist, grey mottled brown, Clay to Silty Clay A7-6	15.0	1		
		3	1.2B	20
		3		
370.8				
Stiff, moist to very moist, grey mottled brown, Silty Clay to Silty Clay Loam A7-6		1		
		2	1.2B	20
		4		
368.3				
Stiff, moist to very moist, grey mottled brown, Clay to Silty Clay A7-6	20.0	1		
		2	1.8B	21
		4		
365.8				
Stiff, moist to very moist, brown mottled grey, Clay A7-6		1		
		5	1.6B	17
		5		
363.3				
	25.0	1		

Description	DEPTH	BLOWS	Qu tsf	W%
Stiff, moist to very moist, brown mottled grey, Clay to Silty Clay A7-6		5	1.5S	20
		10		
360.8				
Very stiff, damp, grey and brown, Clay to Clay Loam A-6		7		
		24	3.7S	10
		34		
358.3				
Medium to dense, very moist, brown, Fine Sand 92% Sand, 5% Silt, 3% Clay	30.0	1		
		3		23
		8		
		7		
		18		
		22		
353.3				
Dense, moist to very moist, brown, Fine Sand with Silt layers 38% Sand, 55% Silt, 7% Clay	35.0	10		
		20		21
		23		
		9		
		18		
		17		
349.3				
Very stiff, moist to very moist, grey, Clay A7-6				
	40.0	1		
		5	2.1B	23
		13		
343.3				
Hard, moist, grey, Clay Loam A-4 with Sand layers	45.0	3		
		8	5.4B	13
		10		
338.3				
	50.0	10		

N-Std Pentr Test: 2" OD Sampler,
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Sheet 2 of 2

Route: P 776 (IL 242) Date: 10/1/2007
Section: 102B
County: Hamilton

Boring No: 1-S
Station: 659+60
Offset: 9' Lt CL
Ground Surface: 387.8 Ft

Description	DEPTH	BLOWS	Qu tsf	W%
Very stiff, moist, grey, Clay to Clay Loam A-6		21	3.3B	20
		25		
335.8				
Hard, dry, grey, Sandy Clay Shale				
	55.0	100/1"		
328.3				
Hard, dry, grey, Clay Shale	60.0	100/4"		
322.8	65.0	100/2"		
Bottom of hole = 64.7 feet				
Free water observed at 30.0 ft				
Elevation referenced to BM at NW wingwall = 387.4 feet				
To convert "N" values to "N60" values multiply by 1.25	70.0			
	75.0			

DEPTH	BLOWS	Qu tsf	W%
80.0			
85.0			
90.0			
95.0			
100.0			

N-Std Pentr Test: 2" OD Sampler,
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

BORING LOGS 1
IL RTE. 242 OVER UNNAMED STREAM
STATION 659+11.74
STRUCTURE NO. 033-2010

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL
DESIGNED BY: CJW DRAWN BY: GLD
CHECKED BY: WLB DATE: 4/12/10

SHEET NO. 7
8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	27
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		