STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EarthTech
A tyco International Ltd. Company

F.A.P. ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
786	109 BR	La Salle	351	287
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 87
89 SHEETS

Contract # 66607

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways, District #3, Ottawa

Page 1 of 1

Date 3/11/05

ROUTE IL 170 DESCRIPTION BRIDGE OVER ILLINOIS RIVER LOGGED BY LM-IDOT

SECTION LOCATION SW 1/4, SEC. 25, TWP. 33N, RNG. 5E, 3rd PM

COUNTY LASALLE DRILLING METHOD Hollow Stem Auger HAMMER TYPE AUTOMATIC

STRUCT. NO. 050-0070 EXISTING
Station 79+05

BORING NO. 3a Northside
Station 74+23
Offset 0.00ft Lt
Ground Surface Elev. 494.64 ft

Surface Water Elev. 483.41 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter 482.6 ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered Brown Sandy Loam Fill & Brown Sand				Medium Brown Fine/ Coarse Sand Rounded to Sub Angular with Very Minor Fine/ Medium Gravel	3		
492.14					4		21.4
Loose Brown Fine/ Coarse Sand Rounded to Sub Angular	2			washed samples from 15' to 26.5'	6		
	3		6.8	low blow count at 15' due to washing out *(continued)*	2		
	2				6		
-5				-25			
	1				8		
	2		6.0		8		21.2
	2				12		
				487.14			
	2			Medium Gray Fine Sand & Silt with Mica	5		
	4		6.1		6		27.0
	2				9		
486.14				-30			
Medium Brown Fine/ Coarse Sand Rounded to Sub Angular with Very Minor Fine/ Medium Gravel	6			464.14	2		27.6
	4		18.0	Hard Gray Clay Shale (Weathered & Blocky)	8		
	9				32	>4.5	17.0
washed samples from 15' to 26.5'							
low blow count at 15' due to washing out	3				22		
	7		21.7		50		16.4
	8				70		
-15				-35			
	1				55		
	2		21.3		100/4"		11.0
	3						
				459.14			
	2			End of Boring			
	3		22.0				
	8						
-20				-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways, District #3, Ottawa

Page 1 of 1

Date 4/26/05

ROUTE IL 170 DESCRIPTION BRIDGE OVER ILLINOIS RIVER LOGGED BY LM-IDOT

SECTION LOCATION SW 1/4, SEC. 25, TWP. 33N, RNG. 5E, 3rd PM

COUNTY LASALLE DRILLING METHOD Hollow Stem Auger HAMMER TYPE AUTOMATIC

STRUCT. NO. 050-0070 EXISTING
Station 79+05

BORING NO. 4a Southside
Station 83+30
Offset 0.00ft Lt
Ground Surface Elev. 493.54 ft

Surface Water Elev. 483.41 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered Brown Sand & Gravel Fill				Medium Brown Fine/Medium Sand	9		20.8
491.54					12		
Stiff Black/Brown Clay Loam Fill	5			Washed out from 18-23' *(continued)*			
	4	2.0	18.9	470.54	5		
	5	P		Dense to Medium Brown Fine Sand to Coarse Gravel- Slightly Loamy w/ Red Shale pieces (potential Cobble Size)	10		18.6
							8.3
-5	3			-25	20		
					11		
	4	2.0	20.1	Washed out from 23-26', 29-30'	12		11.7
	3	P			15		
488.54							
	1				12		
Very Soft Brown/Gray/Black Silt, Sand, Loam, Clay Loam interbedded alluvial deposits Sand Cave in @ 8 1/2' AAR	1				21		10.3
	1				27		
-10				-30			
	1				25		
	2	0.8	22.4	Hard Gray Shale 463.54			
	1	P			21	>4.5	11.2
483.04				End of Boring 462.54	36	P	
Loose Brown Fine/Coarse Sand w/ minor Gravel (to medium) minor Silt layers <1/2" Free water @ 11.5'	5						
	3		25.1				
	2						
479.54							
Medium Brown Fine/Coarse Sand w/ minor Gravel (to Coarse)	5						
-15				-35			
Washed out / rock in shoe / no recovery	6		21.3				
	8						
	15						
	17						
475.54							
Medium Brown Fine/Medium Sand	13						
Washed out from 18-23'							
-20	5			-40			

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Page 1 of 1

Date 4/26/05

ROUTE IL 170 DESCRIPTION BRIDGE OVER ILLINOIS RIVER LOGGED BY LM-IDOT

SECTION LOCATION SW 1/4, SEC. 25, TWP. 33N, RNG. 5E, 3rd PM

COUNTY LASALLE DRILLING METHOD Hollow Stem Auger HAMMER TYPE AUTOMATIC

STRUCT. NO. 050-0070 EXISTING
Station 79+05

BORING NO. 5a Southside
Station 85+45
Offset 8.00ft Rt
Ground Surface Elev. 493.80 ft

Surface Water Elev. 483.41 ft
Stream Bed Elev. ft

Groundwater Elev.:
First Encounter ft
Upon Completion ft
After Hrs. ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Augered Brown Sand w/ minor Gravel Fill				Medium Brown Fine/Coarse Sand w/ very minor Gravel (to Coarse)	5		21.2
491.80					9		
Medium Brown Fine/Coarse Sand w/ Layers Brown Loam (Fill)	5			Sample Washed from 14.5'-31.5'			
	6		15.0	Sample washed out of spoon at 27' *(continued)*	5		
489.80	5				8		18.9
Very Stiff Black Silty Clay w/ organics (Backwater Deposit)					18		
-5	2			-25			
	3	3.3	20.7		10		
	5	P			20		21.8
486.30	4				3		
Brown Loamy Sand & Gravel (potential cobble size) Free water	6		5.8		9		
Sand Cave in @ 7.5' AAR 484.80	6				14		
Loose Brown Fine/Coarse Sand w/ minor Gravel (to Coarse)	2			-30	9		
-10							
	3		19.1		12		18.4
	4				28		
482.30				462.30			
Medium Brown Fine/Coarse Sand w/ very minor Gravel (to Coarse)	9			Dense Brown Loamy Fine Sand to Coarse Gravel/ Cobble	20		
Sample Washed from 14.5'-31.5'	10		19.8	Washed sample from 31.5'-33.5'	25		9.3
Sample washed out of spoon at 27'	16			460.30	100/4"		
-15				Hard Gray Shale weathered @ surface			
	6			458.80 -35			
	10		19.2	End of Boring			
	14						
	2						
	5		20.6				
	7						
-20	2			-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

DESIGNED	- DEV
CHECKED	- RJC
DRAWN	- JHR
CHECKED	- RJC

SOIL BORING LOGS #3a, #4a, & #5a
IL. 170 F.A.P. 786 OVER
ILLINOIS RIVER AT SENECA
PUBLIC WATERS
LA SALLE COUNTY, SECTION 109 BR
STATION 79+04.42
STRUCTURE NO. 050-0246