STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 74	(72-7)R-3	PEORIA	1360	1057
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT=	

SHEET NO. 7 OF 9 SHEETS

Contract No. 68200

Illinois Department of Transportation
Division of Highways
1001

SOIL BORING LOG

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Date 3/18/04

ROUTE FAI-74 DESCRIPTION Ramp C-3 Culvert/MSE Wall LOGGED BY JAR

SECTION 72-6,7,8,9-1,90-11,90-12,13,14 LOCATION , SEC. , TWP. , RNG.

COUNTY Peoria & Tazewell DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.
Station

BORING NO. 10200
Station 10+200
Offset 5.00m Rt BL Ramp C-3
Ground Surface Elev. 166.87 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter 162.3 m
Upon Completion none m
After 24 Hrs. **none m

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Brown SILTY CLAY LOAM			
	1		
	2	95	27.0
165.50	2	B	
Brown Med. SAND	1		
-1.9	4		11.9
	4		
	1		
	4		16.5
163.98	4		
Dk. Gray CLAY LOAM	2		
-3.0	5	296	12.5
	5	B	
163.21	3		
Dk. Gray SANDY CLAY LOAM	5	217	14.1
	4	S	
162.45	H		
Gray CLAY LOAM -4.5	1	48	17.2
	2	P	
	1		
	2	87	16.1
-6.0	2	B	

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Grey CLAY LOAM (continued)	2		
	5	376	13.4
	8	B	
	3		
	7	335	13.6
	8	B	
-7.5	6		
sandy @ 7.62m(25')	9	316	13.9
**24 HR H2O= None;	12	S	
Hole Collapsed @ 7.62m(25')			
158.64	4		
Brown Med. SAND	5		5.9
	19		
-9.0	9		
	12		5.0
	15		
	7		
	10		4.3
	16		
-10.5	10		
	11		3.9
	13		
155.59	11		
Brown Cse. SAND & GRAVEL	21		4.9
155.14	29		
End of Boring -12.0			

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)

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SOIL BORING LOG

Page 1 of 1

Date 3/18/04

ROUTE FAI-74 DESCRIPTION Ramp C-3 Culvert/MSE Wall LOGGED BY JAR

SECTION 72-6,7,8,9-1,90-11,90-12,13,14 LOCATION , SEC. , TWP. , RNG.

COUNTY Peoria & Tazewell DRILLING METHOD HSA HAMMER TYPE AUTO

STRUCT. NO.
Station

BORING NO. 10235
Station 10+235
Offset 3.00m Rt BL Ramp C-3
Ground Surface Elev. 166.69 m

Surface Water Elev. m
Stream Bed Elev. m

Groundwater Elev.:
First Encounter 164.3 m
Upon Completion 157.8 m
After 24 Hrs. 162.5 m

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Brown/Gray CLAY LOAM			
	1		
	1	158	23.6
	1	B	
165.32			
Brown Med. SAND	1		
-1.9	2		12.5
	4		
164.56	H		
Gray CLAY LOAM	1	99	26.1
	2	B	
163.79			
Gray Med.-Cse. SAND -3.0	18		
	13		8.8
	11		
163.03			
Gray CLAY LOAM	1		
	3	217	15.3
	6	B	
162.27			
Gray Cse. SAND & GRAVEL -4.5	16		
	13		18.9
	14		
161.51			
Gray CLAY LOAM TILL	4		
	8	750	12.1
	14	B	
-6.0			

DEPTH (m)	BLOWS (/150 mm)	UCS Qu (kPa)	MOIST (%)
Gray CLAY LOAM TILL (continued)	4		
	9	573	11.4
	13	B	
	5		
	6	376	13.3
	10	B	
-7.5	7		8.2
7cm(3") sand seam @ 7.47m(24.5')	12	240	19.1
	13	P	
	6	134	23.1
	10	B	
7cm(3") sand seam @ 8.6m(28.2')	9		6.2
157.70 -9.0	7		
Brown Med.-Cse. SAND w/ some GRAVEL	11		6.4
	14		
	5		
	6		6.8
	11		
-10.5	10		
	11		6.0
	13		
	6		
	9		4.2
154.99	10		
End of Boring -12.0			

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)

LEGEND - RSV ENGINEERING INC. (NOW BLOOM CONSULTANTS, LLC) TEST BORING LOGS

A-1 to A-7 (and subgroups)	*Engineering classifications of soil samples in accordance with AASHTO M 145 standard specification.*
BLOWS/150mm	*Number of blows required to drive a standard soil sampling device 150 mm as conducted in accordance with AASHTO T 206 standard specification.*
q_u, kPa	*Unconfined compression strength of soil sample in kilopascals determined in accordance with AASHTO T 208 standard specification.*
STRAIN, %	*Actual strain of soil sample at failure (15 percent maximum allowed) during unconfined compression strength test (see AASHTO T 208 specification).*
WATER CONTENT, %	*Natural moisture content of soil sample in percent determined in accordance with AASHTO T 265 standard specification.*
Penetrometer Estimate	*An approximation of the unconfined compressive strength of the soil sample in kilopascals obtained with the use of a calibrated hand penetrometer device.*
50 mm ST	*50 mm diameter thin-walled tube (Shelby Tube) relatively undisturbed soil sample obtained in accordance with AASHTO T 207 standard specification.*
Yd	*Dry unit weight of soil specimen in kilograms per cubic meter.*
REC.	*Length of sample recovered in millimeters.*

DESIGNED	GEK
CHECKED	
DRAWN	GEK
CHECKED	

BORING LOGS
RAMP C-3 OVER DRY RUN CREEK
F.A.I. RTE 74(I-74) SECTION (72-7)R-3
PEORIA COUNTY
STA. 10+190.00 TO STA. 10+277.94 (RAMP C-3)
STRUCTURE NUMBER 072-8619 - WALL 18C

CLARK ENGINEERS, INC.
111 NE Jefferson Ave.
Peoria, Illinois 61602
PH(309)676-8464
FAX(309)676-5445

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