

Illinois Department of Transportation
Date of Report: 12/20/04
No. 2004-9

SOIL BORING LOG

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Date 12/20/04

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemmon River LOGGED BY M. Tuppen

SECTION 34-5 LOCATION SW 1/4, SEC. 16, TWP. 9 N, RNG. 6 W, 4 PM

COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140 # Axle

STRUCT. NO. <u>034-2014</u>	D	B	U	M	Surface Water Elev.	<u>518.0</u>	ft
Station <u>1296+25</u>	E	L	C	O	Stream Bed Elev.	<u>No Data</u>	ft
	F	O	S	I			
	T	W	S	S	Groundwater Elev.:		
BORING NO. <u>54</u>	H	S	Q	T	<input type="checkbox"/> First Encounter	<u>No Encounter</u>	ft
Station <u>1296+20</u>					<input type="checkbox"/> Upon Completion	<u>Card</u>	ft
Other <u>10.05 ft</u>					<input type="checkbox"/> After	<u>Hrs.</u>	ft
Ground Surface Elev. <u>540.9</u>	(ft)	(#)	(in)	(%)			

Greyish Brown Mottled SILTY CLAY (PE)
Angle Reduced at 1' - Depth Rock Core
Core
Borehole continued with rock coring.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (S-Relax, S-Share, P-Penetrometer, E-Retained)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Sealing
The SPT (N) value is the sum of the last two blow values in each sampling zone (ASTM D-1586, from 197 (Rev. 8-99))

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COUNTY Hancock CORING METHOD Christmas NCB Wireline w/Water

STRUCT. NO. <u>034-2014</u>	CORING BARREL TYPE & SIZE		NCB	D	C	O	Q	I	R	CORE	S	T
Station <u>1296+25</u>	Core Diameter	<u>1.50</u>	in	E	X	O	V	.	M	N	T	R
BORING NO. <u>54</u>	Top of Rock Elev.	<u>539.90</u>	ft	F	R	E	D	E	G			
Station <u>1296+20</u>	Begin Core Elev.	<u>539.90</u>	ft	T	R	E	.	T				
Other <u>10.05 ft</u>				H	Y							
Ground Surface Elev. <u>540.9</u>	ft			(ft)	(#)	(%)	(%)	(in/ft)	(in)			

Thin and Grey Moderately Indurated Fossiliferous Crystalline LIMESTONE (Very Broken, 1"-8" Pieces) 539.90

Light Brown Poorly Indurated Argillaceous LIMESTONE 539.90

Dark Grey Well Indurated Calcareous SHALE 537.90

Dark Grey to Grey Moderately Indurated Fossiliferous LIMESTONE w/interbedded Argillaceous LIMESTONE and Clayey SHALE Sums 536.90

1	80	45										
2	84	80									82	
3	100	95										89
4	100	75										84
5	100	85										88

Color pictures of the cores On Request
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-5988)

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BSI, Form 126 (Rev. 8-99)

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STRUCT. NO. <u>034-2014</u>	CORING BARREL TYPE & SIZE		NCB	D	C	O	Q	I	R	CORE	S	T
Station <u>1296+25</u>	Core Diameter	<u>1.50</u>	in	E	X	O	V	.	M	N	T	R
BORING NO. <u>54</u>	Top of Rock Elev.	<u>539.90</u>	ft	F	R	E	D	E	G			
Station <u>1296+20</u>	Begin Core Elev.	<u>539.90</u>	ft	T	R	E	.	T				
Other <u>10.05 ft</u>				H	Y							
Ground Surface Elev. <u>540.9</u>	ft			(ft)	(#)	(%)	(%)	(in/ft)	(in)			

Dark Grey to Grey Moderately Indurated Fossiliferous LIMESTONE w/interbedded Argillaceous LIMESTONE and Clayey SHALE Sums (continued)

6	100	84										
7	100	100										78
8	100	85										84
9	100	85										107
												88

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ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE
STRUCTURE NUMBER 037-0069
DRAWING NUMBER 037-0069

PROJECT FAP ROUTE 315 (IL 336/US 136) SECTION 34-5(5B) HANCOCK COUNTY STA. 1293+50.00(R) TO STA. 1297+00.00(R) STRUCTURE NUMBER 034-2521	PROJECT NO. 02076-R SCALE 9450 DATE 12/22/05 DRAWN BY TFG CHECKED BY BD/MCB DRAWING NO. 16 OF 18 SHTS
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COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002708