ILLINOIS DEPARTMENT OF TRANSPORTATION — Struct Foundati
District Seven Materials — METRIC VERSION — Boring Log — Sh. 1 of 1

T5N, R6E, NORTHWEST QUARTER OF SECTION 3, 3rd P.M.;
PROJECT LUCAS CREEK — BRIDGE LUCAS CREEK — Date 07/03/96
ROUTE FAP 328 (U.S.45) — STRUCTURE NO. 013-0009 — Bored By D. LUX
SEC. (2,3,4)RS-1 — STA. — Checked By M. ROBERTSON

COUNTY CLAY

Boring No. 1
Sta 14.1m N EX CEN
O/S 2.5m W EX CL

El.	N	Qu 100 kN/m2	W %
Ground Surface 99.9 0			
PAVEMENT			
99.4			
ESTIMATED SOFT, DAMP TO VERY DAMP, BROWN CLAY			
98.5	3	0.3 E	17
-1.5(5) VERY SOFT, WET, BROWN CLAY	1	0.2 B	27
97.3	1	0.3 B	21
-3.0(10) SOFT, VERY DAMP TO WET, BROWN MARBLED GRAY CLAY			
96.5			
V. MOIST, SANDY LOAM	5		19
96.2			
VERY SOFT, WET, DARK GRAY CLAY WITH SAND LOAM LENSES AND HAIR ROOTS	1	0.2 B	27
-4.5(15)			
95.0			
VERY LOOSE, WATER-BEARING MIXTURE OF CLAY, SANDY LOAM TO SAND, AND GRAVEL	1		26
94.3			
CLAY SHALE 94.1	20		14
VERY DENSE, MOIST, BADLY WEATHERED, -6.0(20) CLAY SHALE 93.7	47		
VERY DENSE, MOIST, BROWN WEATHERED SAND-STONE	*		13

Surf Wat El.
Grndwater El.
at Compl CAVED

At Hrs	El.	N	Qu 100 kN/m2	W %
** 60mm PENETRATION FOR 100 BLOWS	-7.5(25)	**		16
*** 25mm PENETRATION FOR 100 BLOWS	91.7	***		17
EXTENT OF EXPLORATION	-9.0(30)			
BENCHMARK IS CENTER OF EXISTING BRIDGE AT CENTERLINE ELEV. 100.0 (REL.)	-10.5(35)			
TRACE OF WATER ENCOUNTERED AT ELEV. 93.8	93.5			
* 22mm PENETRATION FOR 100 BLOWS	-13.5(45)			

N-Std Pentr Test: 50mm (2") OD Sampler
63.5kg (140#) Hammer Falling 0.76m (30")
(Type of Failure: B-Bulge S-Shear E-Estimated P-Penetrometer)

ILLINOIS DEPARTMENT OF TRANSPORTATION — Struct Foundati
District Seven Materials — METRIC VERSION — Boring Log — Sh. 1 of 1

PROJECT LUCAS CREEK — BRIDGE LUCAS CREEK — Date 07/03/96
ROUTE FAP 328 (US 45) — STRUCTURE NO. 013-0009 — Bored By D. LUX
SEC. (2,3,4)RS-1 — STA. — Checked By M. ROBERTSON

COUNTY CLAY

Boring No. 2
Sta 14.1m S EX CEN
O/S 8.0m E EX CL

El.	N	Qu 100 kN/m2	W %
Ground Surface 99.8 0			
LOOSE, MOIST, BROWN, FINE GRAIN, SANDY LOAM TO SAND WITH GRAVEL	9		8
-7.5(25)			
98.7			
ESTIMATED VERY STIFF, DAMP, BROWN MARBLED GRAY, -1.5(5) CLAY TILL	22	2.9 E	11
98.9			
HARD, DAMP, BROWN MARBLED GRAY, CLAY TILL	24	6.4 S	10
-9.0(30)			
	23	4.9 S	12
-3.0(10)			
	22	7.1 S	13
-10.5(35)			
95.9			
ESTIMATED HARD, DAMP, VERY BADLY WEATHERED, CLAY SHALE WITH SAND PARTINGS	35	5.0 E	11
-4.5(15)			
95.2			
VERY DENSE, MOIST, BROWN, BADLY WEATH., SANDSTONE	*	94.5	8
-12.0(40)			
94.3			
VERY DENSE, MOIST, BROWN MARBLED GRAY, BADLY WEATHERED, -6.0(20) CLAY SHALE AND SANDSTONE	**		16
	***		15
93.1			
EXTENT OF EXPLORATION			

Surf Wat El.
Grndwater El.
at Compl 94.8

At Hrs	El.	N	Qu 100 kN/m2	W %
* 184mm PENETRATION FOR 100 BLOWS	-7.5(25)			
** 38mm PENETRATION FOR 100 BLOWS	-9.0(30)			
	-10.5(35)			
	-12.0(40)			
*** 29mm PENETRATION FOR 100 BLOWS	-13.5(45)			

N-Std Pentr Test: 50mm (2") OD Sampler
63.5kg (140#) Hammer Falling 0.76m (30")
(Type of Failure: B-Bulge S-Shear E-Estimated P-Penetrometer)

DESIGNED	B.G.H.
CHECKED	L.D.G.
DRAWN	K.H.L.
CHECKED	B.G.H.

SOIL BORING LOGS

SHEET NO. 21	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	328	(4BR-1)B	CLAY	42	39
	S.N. 013-0039		CONTRACT NO. 74310		
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

H.M.G. NO. 4915.19