STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
Illinois Department of Transportation/D-2

Page 1 of 2 — Date 91108

ROUTE FAI 74 DESCRIPTION P92-002-98 I-74 Bridge over Ophiem Road LOGGED BY W. Garza
SECTION 37-(4HB, 4HB-1, 4HB-2) D LOCATION Lynn Twp. - 25 S 1/2, SEC., TWP. 15N, RNG. 1E, PM
COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. ____
Station ____
BORING NO. B-1
Station 1422+33
Offset 76.00ft Lt CL
Ground Surface Elev. 729.4 ft

Surface Water Elev. ____ ft
Stream Bed Elev. 82.0 ft
Groundwater Elev.:
First Encounter 676.9 ft ▼
Upon Completion Dry ft
After ____ Hrs. ____ ft

Description	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
Shoulder on Ophiem Road				
MEDIUM brown SILTY CLAY LOAM			0.9 P	14
726.90				
MEDIUM gray/green SILTY CLAY LOAM TILL		3 4 4	0.7 B	20
725.40	-5			
STIFF tan SILTY CLAY LOAM TILL		2 3 7	1.4 B	19
722.90				
VERY STIFF gray LOAM TILL		4 5 9	3.1 B	13
720.40	-10			
VERY STIFF gray LOAM TILL with SAND lens		4 6 9	2.7 B	16
717.90				
VERY STIFF gray CLAY LOAM TILL		4 6 8	2.7 B	16
715.40	-15			
VERY STIFF gray CLAY LOAM TILL with SAND lens		5 9 11	2.5 S	16
712.90				
VERY STIFF gray CLAY LOAM TILL		5 6 10	2.1 B	16
710.40	-20			
VERY STIFF olive-green CLAY LOAM TILL		8 10 16	3.5 S	13
707.90				
HARD olive-green CLAY LOAM TILL		5 10 16	5.4 S	15
705.40	-25			
VERY STIFF olive-green CLAY LOAM TILL		7 11 16	3.7 B	14
702.90				
HARD olive-green CLAY LOAM TILL		5 11 15	5.6 S	14
700.40	-30			
VERY STIFF gray CLAY LOAM TILL with moist fine SAND lens		4 9 14	2.5 B	15
697.90				
VERY STIFF gray CLAY LOAM TILL		4 7 12	3.7 B	15
695.40	-35			
VERY STIFF gray CLAY LOAM TILL		6 6 11	2.5 B	
692.90				
VERY STIFF gray CLAY LOAM TILL		4 7 10	2.5 B	16
690.40	-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)

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Offset 76.00ft Lt CL
Ground Surface Elev. 729.4 ft

Surface Water Elev. ____ ft
Stream Bed Elev. 82.0 ft
Groundwater Elev.:
First Encounter 676.9 ft ▼
Upon Completion Dry ft
After ____ Hrs. ____ ft

Description	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
VERY STIFF gray CLAY LOAM TILL with SAND lens		3 5 10	2.7 B	16
687.90				
VERY STIFF gray CLAY LOAM TILL		2 6 9	2.3 B	16
685.40	-45			
VERY STIFF gray CLAY LOAM TILL		3 5 9	2.1 B	17
682.90				
VERY STIFF gray CLAY LOAM TILL		3 6 9	2.7 B	16
680.40	-50			
VERY STIFF gray CLAY LOAM TILL		3 5 9	2.5 B	17
677.40				
MEDIUM gray clean medium coarse SAND		3 11 13		
674.90	-55			
VERY STIFF gray CLAY LOAM TILL with SAND on top 6"		5 4 7	2.7 B	17
672.90				
VERY STIFF gray CLAY LOAM TILL		3 5 8	2.3 B	17
670.40	-60			
VERY STIFF gray CLAY LOAM TILL		4 7 9	2.1 B	16
667.90				
STIFF gray CLAY LOAM TILL		3 5 8	1.9 B	18
665.40	-65			
VERY STIFF gray CLAY LOAM TILL		3 6 11	2.9 B	17
662.90				
VERY STIFF gray CLAY LOAM TILL		5 8 10	2.5 B	18
660.40	-70			
VERY STIFF gray CLAY LOAM TILL		3 6 12	2.5 B	18
657.90				
VERY STIFF gray CLAY LOAM TILL		3 5 10	2.5 B	18
655.40	-75			
	-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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COUNTY Henry DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. ____
Station 1422+17
BORING NO. B-2
Station 1422+09
Offset 80.00ft Rt CL
Ground Surface Elev. 729.0 ft

Surface Water Elev. ____ ft
Stream Bed Elev. 82.0 ft
Groundwater Elev.:
First Encounter 719.9 ft ▼
Upon Completion 669.9 ft ▽
After 55 ft. Hrs. 674.9 ft ▽

Description	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
9" Asphalt				
STIFF gray SILTY CLAY LOAM			1.5 P	22
727.40				
VERY STIFF gray SILTY CLAY LOAM		4 4 5	2.3 P	24
725.90	-5			
MEDIUM brown SANDY LOAM		4 6 7	0.8 P	16
723.40				
MEDIUM tan SILTY CLAY LOAM with SAND lens		1 2 3	0.6 P	21
720.90	▼-10			
VERY STIFF gray LOAM TILL with SAND lens		4 5 6	2.5 B	15
718.40				
VERY STIFF gray CLAY LOAM TILL		4 5 10	2.5 B	17
715.90	-15			
VERY STIFF gray CLAY LOAM TILL		4 6 8	2.3 B	16
713.40				
VERY STIFF olive-green CLAY LOAM TILL		4 6 12	3.9 B	15
710.90	-20			
HARD olive-green CLAY LOAM TILL		8 11 17	5.4 B	14
708.40				
HARD gray CLAY LOAM TILL		4 8 15	4.7 B	13
705.90	-25			
HARD gray CLAY LOAM TILL		5 7 12	5.0 B	14
703.40				
VERY STIFF gray CLAY LOAM TILL		4 8 12	2.9 B	15
700.90	-30			
HARD gray CLAY LOAM TILL		6 8 11	4.5 B	14
698.40				
VERY STIFF gray CLAY LOAM TILL		6 9 13	2.9 B	15
695.90	-35			
VERY STIFF gray CLAY LOAM TILL		4 6 10	2.9 B	15
693.40				
VERY STIFF gray CLAY LOAM TILL		3 5 8	2.5 B	16
690.90	-40			

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Description	DEPTH (ft)	BLOWS (6")	UCS Qu (tsf)	MOIST (%)
VERY STIFF gray CLAY LOAM TILL		3 6 9	2.5 B	16
688.40				
VERY STIFF gray CLAY LOAM TILL		4 7 10	2.1 B	17
685.90	-45			
VERY STIFF gray CLAY LOAM TILL		5 6 10	2.5 B	18
683.40				
VERY STIFF gray CLAY LOAM TILL		3 5 9	2.7 B	17
680.90	-50			
VERY STIFF gray CLAY LOAM TILL		5 6 10	2.5 B	18
678.40				
VERY STIFF gray CLAY LOAM TILL		5 9 10	3.1 B	17
675.90	▽-55			
VERY STIFF gray CLAY LOAM TILL		5 7 10	2.3 B	18
673.40				
VERY STIFF gray CLAY LOAM TILL		4 7 9	2.7 B	17
670.90	▽-60			
VERY STIFF gray CLAY LOAM TILL		6 8 10	2.7 B	17
668.40				
VERY STIFF gray CLAY LOAM TILL		6 9 11	2.5 B	18
665.90	-65			
VERY STIFF gray CLAY LOAM TILL		7 10 11	3.1 B	17
663.40				
VERY STIFF gray CLAY LOAM TILL		4 7 9	2.7 B	18
660.90	-70			
VERY STIFF gray CLAY LOAM TILL		10 12 13	3.1 B	17
658.40	-75			
	-80			

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SOIL BORING LOGS
STRUCTURE NO. 037-0015 (S.B.)
STRUCTURE NO. 037-0016 (N.B.)

SHEET NO. 28	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
30 SHEETS	74	37-4HB	HENRY	148	64
			CONTRACT NO. 64264		
	FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		