STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
Ill. Dept. of Trans. 6-7

SOIL BORING LOG

Page 1 of 1

Date 3/20/07

ROUTE FAI 57/70 (I-57/70) DESCRIPTION FR 1354 SB I-57/ WB I-70 Underpass LOGGED BY E. Sandschafer

SECTION (25-3,4)R LOCATION NW 1/4, SEC. 31, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-2017
Station 2073+40

BORING NO. 1
Station 2073+39
Offset 55.00ft Rt
Ground Surface Elev. 559.70 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				Gravel/Soil mixture.
				558.70
				Hard, very moist, gray, CLAY LOAM TILL.
	46			
	39	+4.5	8	
	38	PP		
-5	22			
	37	9.6	8	
	50/5"	S		
				552.70
	24			Hard, very moist, brown, SANDY CLAY TILL.
	34	4.5	8	
	46	S		
				550.20
-10	17			Hard, very moist, brown mottled gray, CLAY LOAM TILL.
	28	10	10	
	32	E		
				547.70
	13			Hard, very moist, gray, CLAY LOAM TILL.
	19	7.5		
	24	S		
-15	11			
	17	5.6	9	
	24	BS		
	11			
	17	8.2	9	
	29	S		
-20	10			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
	16	9.0	10	Hard, very moist, gray, CLAY LOAM TILL. *(continued)*
	20	E		
				535.20
-25	12			Very stiff, damp, brown, SANDY CLAY LOAM TILL.
	25	2.9		
	38	BS		
				533.70
				Extent of exploration.
				Benchmark: BM 509 Chiseled square on W base of overhead sign truss on I-57/70 "South - Memphis", "West - St. Louis" = 581.46' elevation, Station 2078+07, 86.6' Lt of centerline survey.
-30				*(Additional B1 location information: 18' E of face of existing box culvert, 1' S of FR 1354 centerline.)*
-35				
-40				

Latitude W 88 deg 24 03 sec. Longitude N 39 deg 04 379 sec. Map Datum WGS 84

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
Division of Highways
Ill. Dept. of Trans. 6-7

SOIL BORING LOG

Page 1 of 1

Date 3/20/07

ROUTE FAI 57/70 (I-57/70) DESCRIPTION FR 1354 SB I-57/ WB I-70 Underpass LOGGED BY E. Sandschafer

SECTION (25-3,4)R LOCATION NW 1/4, SEC. 31, TWP. 8 N, RNG. 6 E, 3 PM

COUNTY Effingham DRILLING METHOD Hollow stem auger & split spoon HAMMER TYPE Auto 140#

STRUCT. NO. 025-2017
Station 2073+40

BORING NO. 2
Station 2073+41
Offset 48.00ft Lt
Ground Surface Elev. 562.63 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

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

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				Gravel/Soil mixture.
				561.23
	10			Hard, very moist, brown, SANDY CLAY TILL.
	17	6.7	9	
	23	S		
				558.13
-5	20			Hard, very moist, brown, CLAY LOAM TILL.
	30	8.8	8	
	37	S		
				556.63
	19			Extent of exploration.
	30	10	2	
	38	DNF		Benchmark: BM 509 Chiseled square on W base of overhead sign truss on I-57/70 "South - Memphis", "West - St. Louis" = 581.46' elevation, Station 2078+07, 86.6' Lt of centerline survey.
-10	15			
	20	8.7	10	*(Additional B2 location information: 17' W of face of existing box culvert, 2' N of FR 1354 centerline.)*
	28	BS		
	13			
	22	6.9	9	
	26	BS		
-15	13			
	24	7.6	11	
	28	B		
	11			
	16	7.6	11	
	22	B		
-20	10			

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
	15	7.6	10	Hard, very moist, brown, CLAY LOAM TILL. *(continued)*
	19	B		
	8			
	15	7.3	10	
	20	B		
-25	8			
	12	6.6	10	
	17	B		
				Extent of exploration.
				Benchmark: BM 509 Chiseled square on W base of overhead sign truss on I-57/70 "South - Memphis", "West - St. Louis" = 581.46' elevation, Station 2078+07, 86.6' Lt of centerline survey.
-30				*(Additional B2 location information: 17' W of face of existing box culvert, 2' N of FR 1354 centerline.)*
-35				
-40				

Latitude W 88 deg 24 024 sec. Longitude N 39 deg 04 089 sec. Map Datum WGS 84

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	B.B.
CHECKED	C.J.F.
DRAWN	J.G.
CHECKED	C.J.F. & B.B.

9:59:59 AM 2/26/2008 -N025-2017.dgn

BERNARDIN LOCHMUELLER & ASSOCIATES, INC.
3 Oak Drive
Maryville, IL 62062-5635
Local-(618) 288-4666
Fax 618-288-4666

SOIL BORINGS
STRUCTURE NO. 025-2017

SHEET NO. 8	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8 SHEETS	70	(25-3)BY	EFFINGHAM	1416	466
		SN 025-2017	CONTRACT NO. 74296		
	FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		