

Illinois Department of Transportation
Division of Highways
Geotechnology, Inc.

SOIL BORING LOG

Page 1 of 4
Date 2/13/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY RFW

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W

COUNTY St. Clair DRILLING METHOD HSA with MR DRILL RIG/
HAMMER EFFICIENCY CME 75 / 90%

STRUCT. NO. 082-0312 D B U M
P O S I
T W S T
Station NA H S Qu T
BORING NO. B-402
Station 193+67.91
Offset 48ft Left
Ground Surface Elev. 419.6 ft (ft) (i6") (tsf) (%)

DEPTH (ft)	SOIL DESCRIPTION	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)
0	ASPHALT AND CRUSHED ROCK BASE (FILL) - 10 inches	0	0	0	0
2	Medium stiff, brown, SILTY CLAY LOAM (FILL)	3	0.7	22	
5		5	B		
419.6	Stiff to soft, SILTY LOAM	2			
3		3	1.6	22	
4		4	S		
2		2			
2		2		24	
2		2			
1		1			
1		1	0.2	28	
10		10	B		
2		2			
2		2	0.3	25	
2		2	B		
402.6	Loose to medium dense, brown, FINE GRAINED SAND, with silt	3			
4		4			
5		5			
15	Conducted grain size distribution	15			
8		8			
9		9			
11		11			
401.6	Medium dense, brown, MEDIUM GRAINED SAND	6			
8		8			
10		10			
20		20			

Surface Water Elev. Unknown ft
Stream Bed Elev. Unknown ft
Groundwater Elev.:
First Encounter Not Measured ft
Upon Completion Not Measured ft
After Hrs. Not Measured ft

Medium dense, brown, MEDIUM GRAINED SAND (continued)

Medium dense to very dense, gray and brown, MEDIUM GRAINED SAND (continued)


Dense to very dense, gray brown, FINE GRAINED SAND, trace silt

Conducted grain size distribution

Medium dense, brown, MEDIUM GRAINED SAND

Conducted grain size distribution

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)
* Rimac attempted, not measured due to sample disturbance
** Not measured due to drilling methods used
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Geotechnology, Inc.

SOIL BORING LOG

Page 2 of 4
Date 2/13/09

ROUTE FAP 998 DESCRIPTION Trilevel Interchange LOGGED BY RFW

SECTION 82-1 LOCATION East St. Louis, IL, SEC. 12, TWP. 2N, RNG. 10W

COUNTY St. Clair DRILLING METHOD HSA with MR DRILL RIG/
HAMMER EFFICIENCY CME 75 / 90%

STRUCT. NO. 082-0312 D B U M
P O S I
T W S T
Station NA H S Qu T
BORING NO. B-402
Station 193+67.91
Offset 48ft Left
Ground Surface Elev. 419.6 ft (ft) (i6") (tsf) (%)

DEPTH (ft)	SOIL DESCRIPTION	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)	DEPTH (ft)
0	Medium dense to very dense, gray and brown, MEDIUM GRAINED SAND (continued)	0	0	0	0
357.6		357.6			
15		15			
10		10			
20		20			
25		25			
45		45			
7		7			
8		8			
23		23			
5		5			
11		11			
17		17			
30		30			
35		35			
40		40			
11		11			
21		21			
31		31			
35		35			
75		75			
12		12			
13		13			
22		22			
30		30			
7		7			

Surface Water Elev. Unknown ft
Stream Bed Elev. Unknown ft
Groundwater Elev.:
First Encounter Not Measured ft
Upon Completion Not Measured ft
After Hrs. Not Measured ft

Medium dense to very dense, gray and brown, MEDIUM GRAINED SAND (continued)

Dense to very dense, gray brown, FINE GRAINED SAND, trace silt

Conducted grain size distribution

Medium dense, brown, MEDIUM GRAINED SAND

Conducted grain size distribution

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)
* Rimac attempted, not measured due to sample disturbance
** Not measured due to drilling methods used
BBS, from 137 (Rev. 8-99)



FILE NAME =	USER NAME = SAW	DESIGNED - LAS	REVISED -
...N08TRI-0820312-0820313-76C58-029-BoringLogs5.dgn		DRAWN - SAW	REVISED -
PLOT SCALE = 1:2000' / IN.		CHECKED - LAS	REVISED -
PLOT DATE = 2/25/2011		DATE - 3-18-11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BORING LOGS 5

SCALE: NONE SHEET NO. 29 OF 30 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
998	82-1-2HB	ST. CLAIR	72	59
SN 082-0312 & 082-0313		CONTRACT NO. 76C50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

BORING LOGS 5
INTERSTATE 70 OVER 1ST STREET
FAI-70
SECTION 82-1-2HB
ST. CLAIR COUNTY
STA. 192+97.45
STRUCTURE NO. 082-0312 (EB)
STRUCTURE NO. 082-0313 (WB)