

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10 11 SHEETS
F.A.P. 312	101B-1	ALEXANDER	152	92	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract No. 98577

**Illinois Department of Transportation**  
Division of Highways  
Illinois Department of Transportation

### SOIL BORING LOG

Page 1 of 2  
Date 10/13/99

ROUTE FAP 312 DESCRIPTION IL 146 over Drainage Ditch LOGGED BY Bryan Keller

SECTION 101B-1 LOCATION 0.2 mi. W. IL 3, SEC. 17, TWP. 14S, RNG. 3W, 3 PM

COUNTY Alexander DRILLING METHOD Hollow Stem Auger HAMMER TYPE 140#

STRUCT. NO. 002-0008 Station 5+699.435

BORING NO. 2-S Station 5+716 Offset 37m Rt Ground Surface Elev. 101.7 m

DEPTH (m)	DRILLING METHOD	SOIL DESCRIPTION	DEPTH (m)	DRILLING METHOD	SOIL DESCRIPTION
		Surface Water Elev. <u>98.9</u> m			Stream Bed Elev. _____ m
		Groundwater Elev.: _____ m			First Encounter _____ m
		Upon Completion _____ m			After _____ Hrs. _____ m
101.1	2	Medium, moist, grey, Silty Clay A-6 with gravel	5	25	to Medium Sand with some Gravel
101.1	2	Hard, moist, brown, Clay A7-6	6	3	9% Gravel
101.1	3		6	6	80% Sand
101.1	4		6	10	8% Silt
101.1			6		3% Clay
100.3	2	Stiff, moist, brown mottled grey, Clay A7-6	7.62	6	
100.3	2		8		Medium, very moist, grey, Fine to Medium Sand with some Gravel
100.3	3		12		
100.3	2		6		9% Gravel
100.3	2		11		80% Sand
100.3	2		12		8% Silt
100.3	2		12		3% Clay
3.05	1	Soft to medium, moist, brown, Clay A7-6	9.14	5	
3.05	1		11		
3.05	1		14		
98.0	1	Soft, very moist, brown, Silt Loam A-4	91.9	8	Medium to dense, moist, grey, Fine to Medium Sand
98.0	1		13		
98.0	1		17		
97.2	1	Vary loose, vary moist, brown, Fine to Medium Sand	91.1	3	Medium, very moist, grey, Fine to Medium Sand
97.2	1		10.67	5	
97.2	1		8		
96.5	1	Vary loose, very moist, brown, Loam A-4	3		
96.5	1		6		
96.5	1		12		
95.7	1	43% Sand, 48% Silt, 9% Clay	89.6		
95.7	4	Medium, very moist, grey, Fine	12.19	13	Dense, very moist, grey, Medium

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)

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		Surface Water Elev. <u>98.9</u> m			Stream Bed Elev. _____ m
		Groundwater Elev.: _____ m			First Encounter _____ m
		Upon Completion _____ m			After _____ Hrs. _____ m
21		Sand	17		
17		98% Sand			2% Silt
88.1		(No sample)	12		
88.1			12		
88.1			13		
86.6		Dense, very moist, grey, Medium Sand with some Gravel	15.24	9	
86.6			18	20	
86.6			16		
86.1		ESF=45 Tons			
Bottom of hole = 15.54 meters					
Free water observed at 4.42 m			16.76		
Elevation referenced to Bench Mark #106; Elevation=102.71 meters					
NOTE: To convert "N" values to "N60" multiply by 1.25					
18.29					

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BBS, from 137 (Rev. 8-99)

SOIL BORING LOGS  
F.A.P. RTE. 312 - SECTION 101B-1  
ALEXANDER COUNTY  
STATION 5+699.435  
STRUCTURE NO. 002-2002