

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 11 11 SHEETS
F.A.P. 312	101B-1	ALEXANDER	152	93	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract No. 98577

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SOIL BORING LOG

Date 10/15/99

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

SECTION 101R-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. 3-S
Station 5+712.0
Offset 14m Lt
Ground Surface Elev. 101.6 m

DEPTH (m)	DEPTH (ft)	TEST	UCS (kPa)	UCS (%)	DESCRIPTION	DEPTH (m)	DEPTH (ft)	TEST	UCS (kPa)	UCS (%)
					Surface Water Elev. <u>98.9</u> m					
					Stream Bed Elev. _____ m					
					Groundwater Elev.: _____ m					
					First Encounter <u>95.87</u> m					
					Upon Completion _____ m					
					After _____ Hrs.					
2.8	9.2					94.9	6			
2.8	9.2	258.6	28		Medium, very moist, brown to grey, Fine to Medium Sand					
1.52	5.0				93% Sand, 6% Silt, 1% Clay					
2.3	7.6	210.7	45		Medium, very moist, brown to grey, Fine to Medium Sand	7.82	3			
99.4	327.1				93% Sand					
					6% Silt					
					1% Clay					
98.7	323.8				Medium, very moist, brown, Medium to Coarse Sand with Gravel	92.6	7			
3.05	10.0	95.8	50			9.14	10			31
97.9	321.1				20% Gravel					
					78% Sand					
					2% Silt					
97.2	319.1				Medium, very moist, grey, Fine to Medium Sand	91.1	9			
4.57	15.0					10.67	12			28
					88% Sand					
					10% Silt					
					2% Clay					
					97% Sand, 3% Silt					
					Medium, moist, grey, Medium to Coarse Sand with Gravel	90.3	9			
										26
					18% Gravel					
					81% Sand					
					1% Silt					
6.10	20.0					12.19	3			

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 T208)
BBS, from 137 (Rev. 8-99)

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					Surface Water Elev. <u>98.9</u> m					
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					First Encounter <u>95.87</u> m					
					Upon Completion _____ m					
					After _____ Hrs.					
4.11	13.5									
13.72	45.0									
15.24	50.0									
16.75	54.8									
18.29	59.9									

No Sample

Medium, moist, grey, Medium to Coarse Sand with Gravel

ESF=42.0 Tons

Bottom of hole=15.54 meters

Free water observed at 4.57 m

Elevation referenced to Bench Mark #105; Elevation=102.71 meters

To convert "N" values to "N60" multiply by 1.25

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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