

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



Illinois Department of Transportation  
Division of Highways  
District Nine Materials

SOIL BORING LOG

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Date 6/15/06

ROUTE over IL 154 / Panther Creek LOCATION IL 154 over IL 154 / Panther Creek LOGGED BY Bryan Keller

SECTION LOCATION 3.4 mi. W. of US 51

COUNTY Perry DRILLING METHOD HAMMER TYPE

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH	BLU	UCS	M	DESCRIPTION	DEPTH	BLU	UCS	M
073-0016	232+00	1-S	232+34	14.00 ft	448.2 ft	(ft)	(6")	(tsf)	(%)		(ft)	(6")	(tsf)	(%)
										Surface Water Elev. 437.4 ft				
										Stream Bed Elev. _____ ft				
										Groundwater Elev.: _____ ft				
										First Encounter 433.70 ft				
										Upon Completion _____ ft				
										After _____ Hrs.				
										Bituminous shoulder				
										447.2				
										Medium, very moist, brown, Silty Clay Loam A-6				
										426.2				
										Very stiff, damp, brown, Silty Clay Loam A-6				
										443.7				
										Medium, very moist, brown, Silty Clay Loam A-6 with some Pea Gravel				
										441.2				
										Soft, very moist, grey, Silty Clay Loam A-6				
										438.7				
										Very soft, very moist, grey, Silty Clay Loam A-6				
										436.2				
										Medium to dense, moist, brown, Sandy Gravel				
										413.7				
										Hard, damp, grey, Clay A7-6				
										413.2				
										Hard, dry, grey, Limestone				
										408.2				
										Hard, damp, grey, Clay Loam A-6 with some Gravel				

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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073-0016	232+00	1-S	232+34	14.00 ft	448.2 ft	(ft)	(6")	(tsf)	(%)		(ft)	(6")	(tsf)	(%)
										Surface Water Elev. 437.4 ft				
										Stream Bed Elev. _____ ft				
										Groundwater Elev.: _____ ft				
										First Encounter 433.70 ft				
										Upon Completion _____ ft				
										After _____ Hrs.				
										Cored from 40.0 ft to 45.0 ft				
										403.2				
										Bottom of hole=45.0 ft				
										Free water observed at 14.5 ft				
										Elevation referenced to Center of Existing Structure; Crown of Finished Roadway=448.6 ft				
										To convert "N" values to "N60" values, multiply by 1.25.				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
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STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH	BLU	UCS	M	DESCRIPTION	DEPTH	BLU	UCS	M
073-0016	232+00	2-S	231+61	14.00 ft	448.5 ft	(ft)	(6")	(tsf)	(%)		(ft)	(6")	(tsf)	(%)
										Surface Water Elev. 437.4 ft				
										Stream Bed Elev. _____ ft				
										Groundwater Elev.: _____ ft				
										First Encounter 434 ft				
										Upon Completion 422.3 ft				
										After _____ Hrs.				
										Bituminous shoulder				
										446.5				
										Stiff, very moist, brown mottled grey, Silty Clay to Clay A7-6				
										444.0				
										Very stiff, moist, brown mottled grey, Clay A7-6				
										441.5				
										Soft, very moist, grey, Silty Clay Loam A-6				
										439.0				
										Very soft, very moist to wet, grey, Silt Loam A-6				
										436.5				
										Medium, very moist, grey, Silty Clay Loam A-6				
										434.0				
										Stiff, very moist, brown mottled grey, Clay A7-6 with a Sand Layer				
										431.5				
										Hard, moist, brown, Clay Loam A-6				
										429.0				
										Bottom of hole=35.0 ft				
										Free water observed at 14.5 ft				
										Elevation referenced to Center of Existing Structure; Crown of Finished Roadway=448.6 ft				
										To convert "N" values to "N60" values, multiply by 1.25.				

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)

SOIL BORING LOGS  
STRUCTURE NO. 073-2007

SHEET NO. 9	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	841	108B-1	PERRY	27	27
9 SHEETS					
CONTRACT NO. 78059					
FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT					