Illinois Department of Transportation — SOIL BORING LOG

Division of Highways
Geotechnology, Inc

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ROUTE FAP 998 — DESCRIPTION Trilevel Interchange — LOGGED BY BEC

SECTION 82-1 — LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair — DRILLING METHOD Hollow Stem Auger and Mud Rotary — HAMMER TYPE Automatic Hammer

STRUCT. NO. 082-W306
Station NA

BORING NO. B-18
Station 62+26.75
Offset 21ft Right
Ground Surface Elev. 420.0 ft

Surface Water Elev. Unknown ft
Stream Bed Elev. Unknown ft

Groundwater Elev.:
First Encounter ** ft
Upon Completion ** ft
After ** Hrs. ** ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
GRAVEL, BOULDERS *(continued)*	299.5				
CRYSTALLINE LIMESTONE - See Rock Core Log		-125			
		-130			
End of Boring	289.5				
		-135			
		-140			

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)

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ROUTE FAP 998 — DESCRIPTION Trilevel Interchange — LOGGED BY JSS

SECTION 82-1 — LOCATION East St. Louis, IL, SEC. 7, TWP. 2N, RNG. 9W

COUNTY St. Clair — DRILLING METHOD HSA and Mud Rotary — HAMMER TYPE Automatic Hammer

STRUCT. NO. 082-W306
Station

BORING NO. B-211
Station 67+60.43
Offset 8ft Right
Ground Surface Elev. 416.8 ft

Surface Water Elev. Unknown ft
Stream Bed Elev. Unknown ft

Groundwater Elev.:
First Encounter 397.8 ft ▼
Upon Completion ** ft
After ** Hrs. ** ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Crushed limestone GRAVEL (FILL) - 6 inches	416.3				
Dark brown, SILTY CLAY (FILL)			1		
			2		24
with crushed limestone gravel to 3 feet			3		
			2		
			2		23
		-5	6		
			1		
			1		26
			2		
	408.8				
Stiff to medium stiff, brown, SILT			2		
			5		16
		-10	7		
			3		
			4		
No sample recovery in SS-5			7		
			1		
			3		25
See Gradation Test Results	401.8	-15	4		
Medium stiff, brown, SILTY LOAM			3		
			3		27
sandy clay seams from 16 to 18 feet			3		
	398.8				
Soft, grayish-brown, SILTY CLAY ▼			0		
			1		
		-20	2		
Soft, grayish-brown, SILTY CLAY *(continued)*	395.8				
Very soft, gray, SILTY CLAY			0		
			1		40
			1		
			0		
	392.3		2		38
Medium dense to dense, light brown, FINE-GRAINED SAND		-25	7		
			7		
			11		
See Gradation Test Results			10		
			11		
			9		
		-30	7		
			11		
			19		
		-35	17		
	379.8				
Medium dense, grayish-brown, MEDIUM-GRAINED SAND			9		
			10		
		-40	12		

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* Rimac attempted, not measured due to sample disturbance
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COUNTY St. Clair — DRILLING METHOD HSA and Mud Rotary — HAMMER TYPE Automatic Hammer

STRUCT. NO. 082-W306
Station

BORING NO. B-211
Station 67+60.43
Offset 8ft Right
Ground Surface Elev. 416.8 ft

Surface Water Elev. Unknown ft
Stream Bed Elev. Unknown ft

Groundwater Elev.:
First Encounter 397.8 ft ▼
Upon Completion ** ft
After ** Hrs. ** ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium dense, grayish-brown, MEDIUM-GRAINED SAND *(continued)*					
			6		
See Attached Gradation Test Results			6		
		-45	8		
			12		
			8		
		-50	7		
	364.8				
Very dense to medium dense, gray, FINE-GRAINED SAND			16		
			25		
		-55	28		
			9		
			6		
		-60	15		
Very dense to medium dense, gray, FINE-GRAINED SAND *(continued)*					
	354.8				
Medium dense, gray, MEDIUM-GRAINED SAND			7		
			8		
		-65	7		
	349.8				
Medium dense, gray, FINE-GRAINED SAND, with silt seams and coal fragments			11		
			18		
		-70	17		
	344.8				
Medium dense to dense, gray, MEDIUM-GRAINED SAND			12		
with gravel from 72 to 75 feet			13		
		-75	17		
		-80			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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* Rimac attempted, not measured due to sample disturbance
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BBS, from 137 (Rev. 8-99)