Illinois Department of Transportation
Division of Highways
Keskaskia Engineering Group

SOIL BORING LOG

Page 1 of 2

Date 7/13/10

ROUTE I-270 DESCRIPTION I-270 CORC Retaining Wall LOGGED BY AOT

SECTION 60-1B-1 LOCATION SEC.29, TWP. 4N, RNG. 9W., PM

COUNTY Madison DRILLING METHOD HSA/Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. ____ Station ____

BORING NO. RT-21 Station 10+50 Offset 0.00ft Ground Surface Elev. 426.4 ft

Surface Water Elev. ____ ft Stream Bed Elev. ____ ft

Groundwater Elev.: First Encounter 406.4 ft ▼ Upon Completion N/A ft After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				Brown Fat CLAY, with Silt
	3			
	4		18	
	5			
422.91				
	4			Brown SANDY CLAY
	6		16	
-5	6			
420.41				
				Brown SANDY SILT
418.91				
	ST	1.1	34	Gray-brown Fat CLAY Wet Density=114.3pcf, Dry Density=85.0pcf Liquid Limit=75, Plastic Limit=29, Plastic Index=46
		S		
417.91				
	2			Brown SANDY CLAY
	3		35	
-10	5			
415.41				
	4			Gray-brown SANDY SILT
	6		24	
	7			
412.91				
	3			Gray-brown Lean CLAY, Trace Sand
	4		28	
-15	4			
410.41				
	WH			Gray-brown SANDY SILT
	1		31	
	2			
	WH			
	1		31	
▼20	2			
				Gray-brown SANDY SILT *(continued)*
405.41				
				Brown SILTY SAND
400.41				
				Gray-brown Fine SAND, Trace Silt
397.91				
				Brown Fine to Medium SAND, Trace Silt
-30				
392.91				
				Brown Fine to Medium SAND, Trace Silt, Gravel
-35				
				Sand=96.2%, Silt/CL=2.6%, Gravel=1.4%
387.91				
				Gray Fine to Medium SAND, Trace Silt
-40				

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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Groundwater Elev.: First Encounter 406.4 ft ▼ Upon Completion N/A ft After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				Gray Fine to Medium SAND, Trace Silt *(continued)*
385.41				
	5			Gray Fine to Coarse SAND, Trace Gravel
	7			
	8			
382.91				
	5			Gray Fine to Medium SAND
	5			
-45	9			
380.41				
	8			Gray Fine to Medium SAND, Trace Silt
	15			
	22			
377.91				
	7			Gray Fine SAND, Trace Silt
	12			
-50	14			
372.91				
	6			Gray Fine to Medium SAND, Trace Silt
	10			
-55	15			
367.91				
	5			Gray Medium to Coarse SAND, Trace Silt
	6			
-60	5			
				Gray Medium to Coarse SAND, Trace Silt *(continued)*
362.91				
	7			Gray Fine to Coarse SAND, Trace Silt
	9			
-65	9			
	8			
	5			
-70	8			
351.41	75			
	11			
	9			
-80				

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COUNTY Madison DRILLING METHOD HSA/Mud Rotary HAMMER TYPE Automatic

STRUCT. NO. ____ Station ____

BORING NO. RT-22 Station 11+00 Offset 25.00ft Ground Surface Elev. 425.9 ft

Surface Water Elev. ____ ft Stream Bed Elev. ____ ft

Groundwater Elev.: First Encounter 407.9 ft ▼ Upon Completion N/A ft After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				Brown SANDY SILT
	3			
	4		17	
	3			
422.35				
	4			Brown SANDY CLAY
	3		14	
-5	2			
419.85				
	2			Brown SANDY SILT
	1		14	
	1			
				Wet Density=99.4pcf, Dry Density=81.3pcf
	ST	0.2	22	
-10		v		
414.85				
	WH			Gray Lean CLAY
	1		36	
	1			
412.35				
	WH			Brown Fat CLAY
	1		34	
-15	1			
409.85				
	WH			Gray SANDY SILT
	WH		32	
	1			
407.35				
	WH			Brown SILTY SAND Sand=68.6%, Silt/CL=31.4%, Gravel=0.0%
	1			
-70	3			
				Brown Fine SAND, with Silt
404.85				
	5			
	5			
	8			
402.35				
	3			Brown Fine SAND, Trace Silt
	5			
-25	9			
399.85				
	6			Gray Fine to Medium SAND, Trace Silt
	6			
	8			
	3			
	3			
-30	8			
394.85				
	5			Gray Fine to Coarse SAND
	7			
	12			
392.35				
	7			Gray Fine SAND, Trace Gravel
	10			
-35	14			
	9			
	9			
	6			Gray Fine to Medium SAND
	9			
-40	9			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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Groundwater Elev.: First Encounter 407.9 ft ▼ Upon Completion N/A ft After N/A Hrs. N/A ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)	Soil Description
				Gray Fine to Medium SAND *(continued)*
384.85				
	4			Gray Fine to Medium SAND, Trace Silt
	6			
	12			
	7			
	8			
-45	11			
379.85				
	5			Gray Fine SAND, Trace Silt
	8			
	9			
	8			
	14			
-50	16			
				Gray Fine to Coarse SAND *(continued)*
362.35				
	7			Gray Medium to Coarse SAND
	9			
-65	9			
	6			
	8			
-70	9			
352.85	8			Gray Medium to Coarse SAND, Trace Gravel
	12			
	16			
-75				
372.35	5			Gray-brown Fine to Medium SAND
	5			
-55	7			
367.35	4			Gray Fine to Coarse SAND
	7			
-60	6			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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BBS, from 137 (Rev. 8-99)

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

FILE NAME = 060W008-76A91-018-Soil_Borings.dgn	USER NAME = jshrhart	DESIGNED - JCE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS STRUCTURE NO. 060-W008
		CHECKED - PMH	REVISED -		
	PLOT SCALE = 1:0.0833333	DRAWN - AMV	REVISED -		SHEET NO. 18 OF 19 SHEETS
	PLOT DATE = 3/18/11	CHECKED - JCE	REVISED -		

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-1B-1	MADISON	712	530
		CONTRACT NO. 76A91		
	ILLINOIS FED. AID PROJECT			