MINNESOTA DEPARTMENT OF TRANSPORTATION - GEOTECHNICAL SECTION

LABORATORY LOG & TEST RESULTS - SUBSURFACE EXPLORATION



UNIQUE NUMBER 70575

This boring was taken by American Engineering Testing under a consultant contract for Mn/DOT

U.S. Customary Units



State Project 0503-78			73014 Trunk Highway/Location TH 23 Desoto Bridge							Boring No.			Ground Elevation 986.8 (DTM)		
Location Benton Co			o. Coordinate: X=755755 Y=203226 (ft.)			Drill Machine 91C						-	SHEET 1 of 1		
Latitude (North)=45°50'16.22" Longitude (West)=93°02'47.83"						Hammer Auto Calibrate				rated		Drilling Completed	5/	12/08	
No Station-Offset Information Available						SPT	-	1C	сон	γ		Other	Tests	3	
 	Depth	λk				2	N 60		%)	(psf)	(pcf)	Soil	Or Re		
DEРТН		Lithology	Classification			ng atio	REC	. p	QD	ACL	Core	∠ :	Form	ation	
DE	Elev.	Litt				Drilling Operation	(%)		94)		Breaks	Rock	or Me	mation 1ember	
+	-		Porco			1	*********	+	********			SPT hammer calibrated to			
1 †	3.6		Barge				‡				1	64.5% efficiency on 9/13/07 (110 lb. hammer)			
5	983.2	w				}}		Ŧ				(' '	o ib. Hailill	Ci)	
	-	w				1		Ī							
10	-		Water			1		Ī				42	5" HSA use	d as ca	asina to
	-		vvaici			1		‡				39'	, drilling mu		
1 1	-	u				1		‡				cas	sing		
15	16.3	w				1		+							
1 ‡	970.5		GRAVEL WITH SAND, brown, alluvium	saturated, very loose, A	-1-a,	X	3	‡	6			-#2	00=1%		
20	19.0 - 967.8		GRAVELLY SAND, coarse gra	ined, brown, saturated n	nedium	PD	25	‡	11						
1 ‡	22.0	· · ·	dense, A-1-b, alluvium SAND, a little gravel, fine grain	ad graviah bravia a little	a blook			Ţ				-#2	:00=1%		
1 . ‡	964.8 24.0		saturated, dense, laminations c	of loamy sand, A-3, alluv	ium /		34		29 16				:00=6%	from '	02 E' to
25	962.8	• . • .	GRAVELLY SAND, coarse to f			\geq	68	_	13			1	tial N-value 8' was 65/0		
1 1	28.0		very dense, A-1-b, alluvium			Ż	27	Ŧ				bou	ılder.		
30	- 958.8 -		SAND, a little gravel, fine to coa	arse grained, light brown	١,		27	‡	13				:00=7% sample rec	overv	
	. 22.5		saturated, medium dense to ve					+				140	Sample rec	over y	
1 05	- 33.5 953.3		LOAMY SAND, fine grained, gr	rayish brown, saturated,	very _		53		15 19						
35	34.5		dense, A-2-4, alluvium	•	/	X	26	+ :	22						
1 7	952.3		SILT LOAM, grayish brown, sa lenses of fine to coarse grained			X	35	Ŧ :	25						
40	947.3		with gravel, A-4, alluvium	ŭ	_		36	Ŧ	15						
	42.0	0	SAND, fine to coarse grained, I \A-3, alluvium	ight brown, saturated, d	ense, /		168	Ŧ	8						
45	944.8	0	GRAVEL WITH SAND, possibl		/n,	<u></u>	50/0	Ξ	0			Apr	parent bould	lers at	
43	942.8		\saturated, very dense, A-1-a, a No sample recovery	lluvium		PD		Ŧ				44.	5'-45'		
1	48.0 938.8	-	\Top of Bedrock			PD	50/0	<u> </u>					sample rec 19.2'	overy f	rom 44' _~
50	-	_+_+	CIVAINIL				100		100				+9.2 FORMATO	RY GF	RANITE
1 1	-	+	Weathering: Fresh Discontinuties: Shallow angle	fracture at 57.2'			100		100						
55	-	-	Color: Gray, black and pink sp												
	-	-++ + .	Grain Size: Coarse to fine Hardness: Very hard					ŧ				No	te: Apparen	front	ro 5"
1 ‡	- 60.0	+ +	rial arrobb. Voly rial a				92		92			3	n bottom lik		
60 [⊥]	60.0 926.8	- +1	Bottom of Hole - 60'				*********	<u></u>	******			929	% recovery	lower	5" likely-
													nained intac e RQD may		
-															
	Index Shee	±₹ U00	I C 1.U					G:\GI	INT\PR				Class: Edit 8 DESOTO BRI		