

SOIL BORING LOG

Project: DDMT GW Investigation

Drilling Contractor: Boart LongyearMinnesota

Drilling Method & Equipment: Rotasonic

Logger: S. BruerWGM

Depth Below Surface (FT)	Sample			Standard Penetration Test Results 6"-6"-6" (N)	Soil Description	Comments
	Interval	Number and Type	Recovery (FT)			
Elevation:			Location: Memphis, TN			Boring No. MW-55(U)
Start: 1030 2/10/96			Finish: 1755 2/10/96			
Sheet 1 of 3						
0			5		6 inches CRUSHED STONE CLAYEY SILT (ML) , light brown with light gray and black mottling, moist, medium stiff, low plasticity	Start Drilling at 1030 - using 6" core barrel <u>modified loess</u>
5	5				- with black mottling below 5 ft	
10			10			
15	15					
20			10		SILTY CLAY (CL) , light brown with black and orange mottling, moist, medium stiff, medium plasticity - stiff with light gray, black, and orange mottling below 20 ft	- gradational contact
25	25					
30	30		5		SANDY CLAY (CL) , light brown with black mottling, moist, soft to medium stiff, medium plasticity, fine to medium, quartz/chert sand, trace fine, subrounded, chert gravel, silty	- gradational contact <u>Fluvial Deposits</u>
35	35		5		CLAYEY SAND (SC) , orangish-brown, moist, loose to medium dense, fine to coarse, quartz/chert with trace to some, fine to medium, subrounded, chert gravel	- gradational contact
NOTES:						



Proj. No.: 113630.01.ZZ

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Depth Below Surface (FT)	Sample			Standard Penetration Test Results 6"-6'-6" (N)	Soil Description Soil name, uscs group symbol, color, moisture content, relative density or consistency, soil structure, mineralogy	Comments Depth of casing, drilling rate, drilling fluid loss, tests and instrumentation
	Interval	Number and Type	Recovery (FT)			

Elevation:

Location: Memphis, TN

Start: 1030 2/10/96

Finish: 1755 2/10/96

Boring No. MW-55(U)

Water Level:

Sheet 2 of 3

35					WELL GRADED GRAVELLY SAND (SW) , orangish-brown, moist, loose, fine to coarse, quartz, with fine to coarse, subangular to rounded, chert gravel, micaceous	- gradational contact
40			8			
43					WELL GRADED GRAVELLY SAND to WELL GRADED SANDY GRAVEL (SW-GW) , orangish-brown, moist, loose, fine to coarse, quartz sand and fine to coarse, subangular to rounded, chert gravel, trace subangular chert cobbles	38 ft to 40 ft: SILTY SAND (SM) orangish- to yellowish-brown with black/gray intermixing, fine to medium, quartz, trace fine to medium, subrounded, chert gravel
45			7			- decreasing gravel content with depth below 45 ft
50	50				WELL GRADED GRAVELLY SAND (SW) , orangish-brown, moist, loose, fine to coarse, quartz, with fine to coarse, subangular to rounded, chert gravel	- gradational contact
54			4		POORLY GRADED SAND (SP) , orangish-brown, moist, loose, fine to medium, quartz, trace subangular to subrounded, chert gravel	
55					- increasing gravel content below 53 ft	
60	60		6		WELL GRADED GRAVELLY SAND to WELL GRADED SANDY GRAVEL (SW-GW) , orangish- to yellowish-brown, moist t wet, loose, fine to coarse, quartz sand and fine to coarse, subangular to rounded, chert gravel	- 5 inches SILTY CLAY (CL) , dark brown, sandy, gravelly at 55 ft
65	65		5			
70						- switching to 4" core barrel

NOTES:

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Depth Below Surface (FT)	Sample			Standard Penetration Test Results 6"-5"-5" (N)	Soil Description Soil name, uscs group symbol, color, moisture content, relative density or consistency, soil structure, mineralogy	Comments Depth of casing, drilling rate, drilling fluid loss, tests and instrumentation
	Interval	Number and Type	Recovery (FT)			
Elevation:					Location: Memphis, TN	Boring No. MW-55(U)
Start: 1030 2/10/96					Finish: 1755 2/10/96	Water Level:
Sheet 3 of 3						
75	73		8		POORLY GRADED SAND (SP) , tan to white, wet, loose, fine to medium, quartz, trace fine, subrounded, chert gravel SILTY CLAY (CL) , light gray with black mottling, moist, stiff, medium plasticity	- 6 inches SILTY SAND (SM) , light gray and lavender, wet, loose, fine, quartz at 72 ft - erosional contact with ferruginous, well-cemented, sandstone fragments at 74 ft <u>Jackson Fm/Upper Claiborne</u>
80			10			
85	83					
85	85.5	S-1	2.5			PP = 2.75, 2.5, 2.5 tsf 1505 Stopped Drilling
90					Boring Terminated at 85.5 Feet	MW-55 installed 1755 see attached construction log
95						
100						
105						
NOTES:						