



Proj. No.: 113630.01.ZZ

## SOIL BORING LOG

Project: DDMT GW Investigation

Drilling Contractor: Boart LongyearMinnesota

Drilling Method & Equipment: Rotasonic

Logger: S. BruerMGM

Depth Below Surface (FT)	Sample			Standard Penetration Test Results  6"-6'-6" (N)	Soil Description	Comments
	Interval	Number and Type	Recovery (FT)			
						Soil name, uscs group symbol, color, moisture content, relative density or consistency, soil structure, mineralogy
Elevation:					Location: Memphis, TN	Boring No. MW-51(A)
Start: 0842 1/28/96					Finish: 1725 1/30/96	
Sheet 1 of 2						
5	0		5		4 inches CONCRETE	Start Drilling at 0842 (1/28/96) <u>modified loess</u>
	5				<u>SILTY CLAY (CL)</u> , light brown with light gray and black mottling, moist, medium stiff, low plasticity	
10			5		<u>CLAYEY SILT (ML)</u> , light brown with light gray mottling, moist, medium stiff, trace organics	- gradational contact
	10				- no organics below 10 ft	
			5			
15	15					- gradational contact <u>Fluvial Deposits</u>
			5		<u>SANDY CLAY (CL)</u> , reddish-brown, moist, stiff, medium plasticity, fine to medium, quartz sand, trace fine, subrounded, chert gravel	
20	20		3			- collected sample: SBMW5119
	23		1			
	24		1			
25	25		1			
30			6			
	32					
35	35		3			

### NOTES:

- 1/28/96 at 1045: threads stripped on rotary head tip where drill rods connect;
- 1/30/96 at 1145: drilling again; hole open to approximately 35 ft bgs

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Depth Below Surface (FT)	Sample			Standard Penetration Test Results	Soil Description	Comments
	Interval	Number and Type	Recovery (FT)			
				6"-6'-6" (N)	Soil name, uscs group symbol, color, moisture content, relative density or consistency, soil structure, mineralogy	Depth of casing, drilling rate, drilling fluid loss, tests and instrumentation
Elevation:					Location: Memphis, TN	<b>Boring No. MW-51(A)</b>
Start: 0842 1/28/96					Finish: 1725 1/30/96	Water Level:
Sheet 2 of 2						
35			4		<b>POORLY GRADED SAND (SP)</b> , brownish-orange, moist, loose, fine to medium, quartz, trace fine, subrounded, chert gravel	- first run 1145 1/30/96 - gradational contact
39						
40			6			
45	45				<b>WELL GRADED GRAVELLY SAND (SW)</b> , orangish-brown, moist, loose, fine to coarse, quartz, with fine to coarse, sub-rounded, chert gravel	
50			0			- no recovery 45 ft to 55 ft
55	55				- wet below 55 ft	- geotechnical sample collected from 55 ft to 60 ft
60			10		- 5 inch clayey layer at 60 ft - brownish-orange, medium SP from 61 ft to 62 ft	
65	65					- erosional contact
			5		<b>SILTY CLAY (CL)</b> , light brown and light gray, moist, stiff to very stiff, medium plasticity - light gray below 69 ft	<u>Jackson Fm/Upper Claiborne</u>
70	70				Boring Terminated at 70 Feet	Stopped Drilling 1600 (1/30/96)

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