



VISUAL CLASSIFICATION OF SOILS

JECT NUMBER: 920022	PROJECT NAME: Memphis Depot / Dunn Field	
BORING NUMBER: MW-71	COORDINATES:	DATE: 11/20/99
ELEVATION:	GWL: Depth 67.5 Date/Time 11/20 10:30	DATE STARTED: 11/20/99
ENGINEER/GEOLOGIST: T. Keith	Depth Date/Time	DATE COMPLETED: 11/20/99
DRILLING METHODS: Hollow Stem Auger with 5' Continuous Sampler		PAGE 1 OF 3

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
0			100	Mottled tan and gray <u>SILT</u> with v. fine sand, firm, dry	ML		PTD Readings 0'-30' range from 2.7-0.0 believed to be moisture/rig exhaust ↓
5			100	Tan <u>SILT</u> with v. fine sand, friable, dry			
10			100	Brown <u>SILT</u> with very fine sand firm, dry			
15			100				
20			100	Orange and brown mottled <u>Silty CLAY</u> , mn nodules, very firm, clay skins, dry	CL		Very hard - slow progress ↓
25			100	Brown + tan clayey <u>Silt</u> , mn nodules, with very fine sand, weak cementation, dry	ML		Thin perched water zone overlying hardpan
				Orange, red and gray <u>Silty SAND</u> , med. to fine grained, >10% clay, firm, dry	SM		
30			70%	Orange and Red <u>Silty SAND</u> , semi-soft, semi-moist, med to fine grained			

NOTES: Tri-Static Testing, 4.25" ID, 8" OD Hollow Stem Augers
Filter Pack: 5.5 bags (275 lbs) 10-20 Sand (60.6-75.3 bags)
Bentonite Seal: 2 Buckets (65.6-60.1 bags)
"road": 14 bags Portland (approx. 115 gallons water
100 lbs bentonite)



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ENGINEER/GEOLOGIST: T. Keith	Depth	Date/Time	DATE COMPLETED: 11/20/99
DRILLING METHODS: Follow Stem Auger with 5' Continuous Sampler			PAGE 2 OF 3

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
30				Orange & red gravelly silty SAND, semi-soft, semi moist, 220% silt, 220% gravel, med grain	SM		
35			40	Red Gravelly SAND, Fine to Coarse, Tan mottles of weathered chert, Some clay bones from weathered chert, mn nodules, Soft, moist, very poorly graded	SP		0.0 ppm
40			60	Orange gravelly SAND, fine to medium grained, moderately well graded, Soft, moist	SW		
45			20				
50			50				0.0 ppm
55			40				
60			60	Orange SAND, fine to medium grain, Soft, moist, well graded	SW		

NOTES:



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DRILLING METHODS: Hollow Stem Auger with 5' Continuous Sampler			PAGE 3 OF 3

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
60				Orange and Gray mottled sandy silty CLAY, stiff, moist, moderate plasticity, 1.5' thick	CL		
65			80	Orange and gray mottled sandy silty CLAY stiff, moist, moderate plasticity, 2' thick	CL		
				Orange and tan gravelly SAND with thin (1/4") gray clay seams. Soft, moist	SP		Wet @ 67.5'
				Wetness @ 67.5'			
70			30	Same as above, with 3" thick sandy Clay seam, soft, wet			0.0 PPM
				Tan SAND, med to fine grained, soft, wet	SW		0.0 PPM, unsure of depths due to incomplete recovery
75			0	NO Recovery, SAND			
			100	Orange and Gray CLAY, sandy, moist, stiff, moderate plasticity 2.5 feet	CL		3.7 PPM in sampler Backfilled
80				End of Boring 77.7 TD			
85							
90							

NOTES: