



VISUAL CLASSIFICATION OF SOILS

PROJECT NUMBER: 920022	PROJECT NAME: Memphis Depot - Dunn Field	
RING NUMBER: MW-69	COORDINATES:	DATE: 11/18/99
ELEVATION:	GWL: Depth ~81' Date/Time 11/19, ~0830	DATE STARTED: 11/18/99
ENGINEER/GEOLOGIST: T. Keith	Depth Date/Time	DATE COMPLETED: 11/19/99
DRILLING METHODS: Hollow Stem Auger w/ 5' Continuous Sampler		PAGE 1 OF 4

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
0			100	Light Brown mottled (gray) Silt with some (fine) fine sand, firm, dry, no plasticity	ML		2.1 ppm PID - suspected moisture or rig - no odor 0.0 in sample
2			100	Light brown sandy Silt (v. fine sand), gray mottles, firm, dry, no plasticity			
5				Same as above except softer			0.2 ppm (moisture?)
10			100				
15			100	Color change to brown, no mottles Same texture as above			2.0 ppm (moisture?)
20			85%	Fragile - mild cementation			Sampler would not seat properly had to pull augers and undo end.
25			80	Brown sandy Silt, mn nodules, soft, semi-moist, low plasticity			
30			100	Red-Brown sandy Silt, mn nodules, soft Semi moist, very low plasticity, few tan mottles			

NOTES: Tri-State Testing and Drilling, 4.25 ID, 8" OD Augers

18 Bags Portland
125 lbs. bentonite
approx 140 gallons water

Grout (15.26 gallons not used)

filter pack 77.6'-81.7' bags (5.5 bags - 275 lbs)

Bentonite seal 73.4'-77.6' bags (2 buckets 1/4" pellets) hydrated in 1 1/2' lifts



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ENGINEER/GEOLOGIST: T. Keith	Depth	Date/Time	DATE COMPLETED: 11/19/99
DRILLING METHODS: Hollow Stem Auger w/s' cont. sampler			PAGE 2 OF 4

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
30			100	Brown-Red silty SAND, med; and fine sands Mn nodules, tan to brown mottles, soft semi-moist	SM		
35			100	Red-silty SAND, med to fine sands, orange mottled zones, soft, moist no plasticity			0.0 PID on sample
40			100	Red SAND, Poorly Graded med & fine sands, soft, moist	SP		17.5 ppm on sample Breathing air: 0.0 ppm
45			55	Orange and Red Gravelly SAND, well graded, soft, moist	SW		0.0 ppm sample
50			45	Orange and Tan laminations, med. SAND, soft, moist, gravelly			
55			60	Same as above, except no gravel			0.0 ppm
60			60	Tan medium to coarse SAND well graded, soft, moist			

NOTES:



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ENGINEER/GEOLOGIST: T. Keith	Depth Date/Time	DATE COMPLETED: 11/19/99
DRILLING METHODS: Hollow Stem Auger with 5' Cont. Sampler		PAGE 3 OF 4

DEPTH (FT)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER ()	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
60					SW		
			60%	Orange gravelly coarse SAND, well graded, soft, moist			
65				Tan coarse SAND, well graded soft, moist			
			65	Orange and Tan SAND, med to coarse, well graded, gravelly, soft, moist			Resume from 11/18/99 PID 2.2 ppm - sample (moisture?)
70							
			70	Orange-Tan SAND, med, soft, moist, well graded			
75							
				Same as above			0.0 ppm PID
80			80	water @ 81'			
			90	Orange and Tan Gravelly SAND, med to coarse, well graded, soft, wet			2.1 ppm
85			70	Orange pebbly SAND, med to coarse grained, well graded, soft, wet			2.2 ppm
				1" thick sandy clay seam			
			90	Orange pebbly SAND, med to coarse grained well graded, soft, wet			0.0 ppm, no odor
90							

NOTES:



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BORING NUMBER: MW-69	COORDINATES:	DATE: 11/19/99
ELEVATION:	GWL: Depth ~ 81' Date/Time 11/19/2000	DATE STARTED: 11/18/99
ENGINEER/GEOLOGIST: T. Keith	Depth Date/Time	DATE COMPLETED: 11/19/99
DRILLING METHODS: Hollow Stem Auger with 5' Continuous Sampler		PAGE 4 OF 4

DEPTH (ft)	SAMPLE TYPE & NO.	BLOWS ON SAMPLER PER FOOT	RECOVERY (%)	DESCRIPTION	USCS SYMBOL	MEASURED CONSISTENCY (TSF)	REMARKS
90			100	Orange SAND, coarse to med. grained, soft, wet increasing grain size above clay	SW		Very coarse/pebbly sand 6" thick above clay
92.2				Orange and gray laminated sandy CLAY, stiff, moist, moderate plasticity	CL		4" into clay NO odor, 0.0 ppm

NOTES: