



PROJECT NUMBER 177556	BORING NUMBER MW-131
SOIL BORING LOG	

PROJECT : ZVI Pilot Study	LOCATION : Memphis Depot, Dunn Field
ELEVATION :	DRILLING CONTRACTOR : Miller Drilling Company (1st attempt)
DRILLING METHOD AND EQUIPMENT USED : Rotasonic rig (4 inch sample casing / 6 inch outer casing)	
WATER LEVELS :	START : 10/06/2003 END: 10/08/2003 LOGGER : David Beverly

DEPTH BELOW SURFACE (FT)				STANDARD	SOIL DESCRIPTION	COMMENTS
INTERVAL (FT)				PENETRATION	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.
RECOVERY (%)				TEST		
#/TYPE				RESULTS		
				6"-6"-6"-6" (N)		PID/FID (ppm): (Soil headspace)
5					No soil descriptions	
10						
15						
20						
25						
30						
35					No soil descriptions	



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DEPTH BELOW SURFACE (FT)	INTERVAL (FT)			STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
	RECOVERY (%)				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. <div>PID/FID (ppm):</div>
	#/TYPE					
40					No soil descriptions	Drum: 77/57
45						
50						
55						
60						
65						
70						



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DEPTH BELOW SURFACE (FT)				STANDARD PENETRATION TEST RESULTS 6"-6"-6"-6" (N)	SOIL DESCRIPTION	COMMENTS
INTERVAL (FT)	RECOVERY (%)				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. PID/FID (ppm):
	#/TYPE					
75						
80					80-83 gray sand wet	
						-0.09/-5.77
					83-90 orange sand	
85						
90					Sand, orange	
					@ 93 feet bgs; Grey clay	
95						
100					Boring terminated at 100' bgs	
105						
110						



PROJECT NUMBER 177556	BORING NUMBER MW-131
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PROJECT : ZVI Pilot Study	LOCATION : Memphis Depot, Dunn Field
ELEVATION :	DRILLING CONTRACTOR : Miller Drilling Company (2nd attempt)
DRILLING METHOD AND EQUIPMENT USED : Rotasonic rig (4 inch sample casing / 6 inch outer casing)	
WATER LEVELS :	START : 10/09/2003 END: 10/08/2003 LOGGER : David Beverly

DEPTH BELOW SURFACE (FT)				STANDARD	SOIL DESCRIPTION	COMMENTS
INTERVAL (FT)				PENETRATION	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.
RECOVERY (%)				TEST RESULTS		
#/TYPE				6"-6"-6"-6" (N)		
					No soil descriptions	PID/FID (ppm): <i>(Soil headspace)</i>



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	RECOVERY (%)	#/TYPE	TEST RESULTS			
			6"-6"-6"-6" (N)			
						PID/FID (ppm):
40					No soil descriptions	
45						
50						
55						
60						
65						
70						
					No soil descriptions	



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	INTERVAL (FT)			TEST RESULTS	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION.
	RECOVERY (%)				
	#/TYPE				
6"-6"-6"-6" (N)				PID/FID (ppm):	
75				No soil descriptions	
80				Begin logging borehole.	
				Sand	PID: 0.5
85					
				@ 88' bgs; Grey clay	PID: 0.8
90				Boring terminated at 91' bgs	
95					
100					
105					
110					



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PROJECT : ZVI Pilot Study	LOCATION : Memphis Depot, Dunn Field
ELEVATION :	DRILLING CONTRACTOR : Prosonic Corp. (reinstallation of MW)
DRILLING METHOD AND EQUIPMENT USED : Rotasonic rig (4 inch sample casing / 6 inch outer casing)	
WATER LEVELS :	START : 10/06/2003 END: 10/16/2003 LOGGER : Mike Karafa

DEPTH BELOW SURFACE (FT)				STANDARD	SOIL DESCRIPTION	COMMENTS
INTERVAL (FT)				PENETRATION	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.
RECOVERY (%)				TEST RESULTS		
#/TYPE				6"-6"-6"-6" (N)		
					No soil descriptions	PID/FID (ppm): <i>(Soil headspace)</i>



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	RECOVERY (%)			PENETRATION	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.
	#/TYPE			TEST		
				RESULTS		
				6"-6"-6"-6" (N)		PID/FID (ppm):
40					No soil descriptions	
45						
50						
55						
60						
65						
70						
					No soil descriptions	



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	RECOVERY (%)								
	#/TYPE								
	6"-6"-6"-6" (N)								
75						No soil descriptions			
80									
85									
90									
95						@ 92' bgs; massive clay	Estimated based on pressure gauges on the drilling rig.		
100									
105									
110									