

PROJECT NUMBER	BORING NUMBER
177556	MW-135

## **SOIL BORING LOG**

PROJECT: ZVI Pilot Study LOCATION : Memphis Depot, Dunn Field

ELEVATION: DRILLING CONTRACTOR: Prosonic Corp
DRILLING METHOD AND EQUIPMENT USED: Rotasonic rig (4 inch sample casing / 6 inch outer casing)

DEPTH BELOW SURFACE (FT)   STANDARD   SOIL DESCRIPTION	LOGGER: Michael Karafa  COMMENTS  DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. PID (ppm): (Soil headspace) 0.0 _
INTERVAL (FT) RECOVERY (%) RECOVERY (%) RESULTS SOIL NAME, USCS GROUP SYMBOL, COLOR, MOSTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY. Silty clay, brown, stiff, grass roots, saturated  5	DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. PID (ppm): (Soil headspace) 0.0 _
RECOVERY (%) #/TYPE RESULTS 6*-6*-6*-6* 6*-6*-6*-6* (N)  O-5 100  O-5 100  Silty clay, brown, plastic, soft, damp, loess  10 - 15-25 100  Same as above more sand content	DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. PID (ppm): (Soil headspace) 0.0 _
#/TYPE RESULTS 6'-6'-6'-6'-6' OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.  Silty clay, brown, stiff, grass roots, saturated  5	DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. PID (ppm): (Soil headspace) 0.0 _
6"-6"-6"-6" OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.  Silty clay, brown, stiff, grass roots, saturated  5 - 5-15 100  Silty clay, brown, plastic, soft, damp, loess  10 - 15 - 15 100  Same as above more sand content	TESTS, AND INSTRUMENTATION.  PID (ppm):  (Soil headspace)  0.0 _
(N) MINERALOGY.  Silty clay, brown, stiff, grass roots, saturated  Silty clay, brown, plastic, soft, damp, loess  Silty clay, brown, plastic, soft, damp, loess  10	PID (ppm): (Soil headspace) 0.0 _
Silty clay, brown, stiff, grass roots, saturated  5	(Soil headspace) 0.0 _
5	
Silty clay, brown, plastic, soft, damp, loess  10	
Same as above more sand content	
	0.5
25	0
Sand some clay, red with yellow bands  Sand some clay, red with yellow bands  Sand some clay, loose, damp, no odor, pebbles and gravel throughout	4.5



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WATER LEVELS:

START: 10/15/2003 END: 10/15/2003 LOGGER: Michael Karafa

LOGGER: Michael Karafa 10/15/2003 40 100 Same as above 15.2 Sand, tan, loose, damp to dry, fine grain, no odor 50 55 Sand, tan to orange, loose, fine to medium grain, dry, pebbles and gravel throughout 2 100 0 Sand, brown tan, medium to coarse grain, loose, dry, gravel throughout Sand, tan to It brown, loose, dry, fine grain



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ELEVATION:			DRILLING CONTRACTOR: Prosonic Corp				
DRILLING MET	HOD AND EQUIPMENT	USED: Rotasonic					
WATER LEVEL	S:	START:	10/15/2003	END:	10/15/2003		Michael Karafa
75	i	ŀ	Sand, orange, loose, m	edium to coarse	grain, damp, some pebb	les and gravel	0.0
75-85	100		Sand, tan to orange, me	edium to coarse	grain, loose, no odor, we	t to saturated	1
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85 <u> </u>	100	l <del>.</del>	Silty clay, orange, with g	arov cilty olay mo	ttling		
65-95	100				uing		
i	i		Clay with silt, grey mass	sive			MW-135-86 sampled for TOC and Fe
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