

PROJECT NUMBER
177556.SA.FE

BORING NUMBER

MW-181

SHEET 1 of 3

SOIL BORING LOG

PROJECT : Memphis Depot Remedial Investigation Plan LOCATION : Memphis, TN

ELEVATION:

DRILLING CONTRACTOR : Prosonic Corporation

NAME OF DRILLER : Adam Marshall

DRILLING METHOD/EQUIPMENT: Rotosonic Drilling

SIZE/TYPE OF BIT : 4 X 6"

OVERBURDEN THICKNESS :

DEPTH DRILLED INTO ROCK : N/A

TOTAL DEPTH OF BORING : 96 ft-bgs

WATER LEVELS :

START : 10/20/2005

END : 10/21/2005

LOGGER : Mike Karafa/ATL

| DEPTH BELOW SURFACE (FT) | STANDARD PENETRATION TEST RESULTS | | | SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. FID (ppm) | | |
|--------------------------|-----------------------------------|-----------------|--------|---|---|--|--|
| | SAMPLE INTERVAL (FT) | | #/TYPE | | | | |
| | RECOVERY (FT) | 6"-6"-6" (N) | | | | | |
| 0-16 | 100% | N/A | N/A | 0-1: SILTY SAND, grass, roots 1-17: SILT, grayish brown, damp, loess | 0.0 0.0 0.8 1.2 1.7 1.8 | | |
| 16-26 | 100% | N/A | N/A | 17-28: SAME AS ABOVE, brown, loess | 11.5 10.7 51.2 93.4 11.2 | | |
| 26-36 | 100% | N/A | N/A | 28-31: SILTY SAND, reddish orange, loose, damp, fine to medium grain, gravel 31-42: SILTY SAND, reddish orange, loose, fine gravel @ 34', subangular, up to 1" | 0.0 0.5 1.4 | | |

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| DEPTH BELOW SURFACE (FT) | STANDARD | | | | SOIL DESCRIPTION SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY. | COMMENTS DEPTH OF CASING, DRILLING RATE, DRILLING FLUID LOSS, TESTS, AND INSTRUMENTATION. FID (ppm) | | |
|--------------------------|----------------------|--------|-----------------|--------|---|---|--|--|
| | SAMPLE INTERVAL (FT) | | TEST RESULTS | #/TYPE | | | | |
| | RECOVERY (FT) | #/TYPE | | | | | | |
| 35 | 26-36 | 100% | N/A | N/A | | | | |
| 40 | 36-46 | 100% | N/A | N/A | 42-43: SAND, orangish tan, fine grain, loose, damp 43-45: SAND, orange, fine to medium grain, loose, damp, some silt 45-54: SAND, tan, fine grain, loose damp | 0.0 0.0 9.2 | | |
| 45 | 46-56 | 100% | N/A | N/A | | | | |
| 50 | 46-56 | 100% | N/A | N/A | | 6.0 4.6 | | |
| 55 | 46-56 | 100% | N/A | N/A | 54-55.5: GRAVELLY SAND, orange, fine to v. course grain, loose, wet, gravel, pea-sized to 2", subangular, some silt 55.5-56: SILTY CLAY, orange, stiff, damp 56-63: SAND, orange, fine to medium grain, loose, damp, gravel up to 1", chert | 0.0 0.0 0.0 | | |
| 60 | 56-66 | 100% | N/A | N/A | 63-65.5: SAND, light tan, fine grain, loose, damp | 0.0 | | |
| 65 | 56-66 | 100% | N/A | N/A | 65.5-69: SAND, light tan, fine to course grain, loose, damp, gravel chert, up to 1/2" | 0.0 | | |

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|--------------------------|-----------------------------------|-----------------|--------|---|---|--|--|
| | SAMPLE INTERVAL (FT) | | #/TYPE | | | | |
| | RECOVERY (FT) | 6"-6"-6" (N) | | | | | |
| 70 | 66-76 | 100% | N/A | N/A | 69-75: GRAVELLY SAND, tan, very coarse grain, loose, wet, gravel chert up to 1.5" (74-75") 0.0 | | |
| 75 | 76-86 | 100% | N/A | N/A | 75-79: SAND, orangish tan, fine to medium grain, loose, saturated, silt @ 77" 0.0 | | |
| 80 | 86-96 | 100% | N/A | N/A | 77-85: SILTY CLAY, orange, stiff, wet 0.0 | | |
| 85 | | | | | 85-96: SILTY CLAY, dark gray, v. stiff, wet 0.0 | | |
| 90 | | | | | | | |
| 95 | | | | | TD @ 96' BGS | | |