

**MUESER RUTLEDGE CONSULTING ENGINEERS**  
**BORING LOG**

BORING NO. MR-203  
SHEET 1 OF 2  
FILE NO. 6909  
MUDLINE ELEV. -11.0  
RES. ENGR. BEN BENBASSET

PROJECT ALLIED-SIGNAL INC. BALTIMORE WORKS  
LOCATION BALTIMORE, MARYLAND

DAILY PROGRESS	SAMPLE			SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
	NO.	DEPTH	BLOWS/6"					
1330	NR	0.0	WR/24"	No Recovery			WCC	Lowered casing 12.0'.
		2.0						Tide @ + 1.0'.
Tuesday 12-12-89	1D	2.0	WR/24"	Soft black organic fine sandy silt, tr wood, coarse sand (OL)	O			NR- Made 2 attempts for mudline sample.
		4.0						
Snow 30°F	NR	4.5	WR/24"	No Recovery		5.0		Recovered sample on 2nd attempt.
		6.5						4" recovery
	2D	7.0	WR-WR	Black and yellow silty coarse to fine sand, sm gravel (SM)	F	8.0	Drilled Ahead	NR-made 2 attempts
		9.0	7-10			10.0		2D: Black silt is organic-probably was top of sample (WR) but washed down into gravel.
								2D: DPC=N
1600	3D	12.0	25-31	White-tan fine sand, some silt (SM)	S-3			Hard drilling at 10.0'.
		14.0	35-36					3D: DPC-Violet
						15.0		Pink wash at 15.5'.
0730						15.5		4D: DPC-Pink
Wednesday 12-13-89	4D	16.0	37-59	Hard mottled red-white clayey silt, tr fine sand (MH)	M		Open Hole	5D: DPC-N
		17.4	100/5"					
								Sand and gravel in wash at 27.5'.
						20.0		
	5D	21.0	26-52	Hard compact white clayey silt, tr fine sand (MH)				
		22.4	100/5"					
						25.0		
	6D	26.0	37-100/6"	Do 5D, white and red (MH)	S-4			
		27.0						
						30.0		
	7D	31.0	44-49	White fine to coarse sand, sm gravel, tr silt (SP-SM)				
1100		33.0	66-59			33.0		End of boring at 33.0'.
								Grouted upon completion.
						35.0		
						40.0		
						45.0		
						50.0		

# MUESER RUTLEDGE CONSULTING ENGINEERS

**PROJECT** ALLIED-SIGNAL INC. BALTIMORE WORKS  
**LOCATION** BALTIMORE, MARYLAND  
**BORING LOCATION** BACK BASIN

**BORING NO.** MR-203  
**SHEET** 2 **OF** 2  
**FILE NO.** 6909  
**MUDLINE ELEV.** -11.0  
**DATUM** BC&CMD

**BORING EQUIPMENT AND METHODS OF STABILIZING BOREHOLE**

**TYPE OF BORING RIG**  
 TRUCK MD-B-61  
 SKID \_\_\_\_\_  
 BARGE X  
 OTHER \_\_\_\_\_

**TYPE OF FEED DURING DRILLING**  
 MECHANICAL \_\_\_\_\_  
 HYDRAULIC X  
 OTHER \_\_\_\_\_

**CASING USED**  YES  NO  
 DIA., IN. 2.5 DEPTH, FT. FROM 0.0 TO 16.0  
 DIA., IN. \_\_\_\_\_ DEPTH, FT. FROM \_\_\_\_\_ TO \_\_\_\_\_  
 DIA., IN. \_\_\_\_\_ DEPTH, FT. FROM \_\_\_\_\_ TO \_\_\_\_\_

**TYPE AND SIZE OF:**

D-SAMPLER 2" O.D. SPLIT SPOON  
 U-SAMPLER \_\_\_\_\_  
 S-SAMPLER \_\_\_\_\_  
 CORE BARREL \_\_\_\_\_  
 CORE BIT \_\_\_\_\_  
 DRILL RODS A W

**DRILLING MUD USED**  YES  NO  
 DIAMETER OF ROTARY BIT, IN. 2"  
 TYPE OF DRILLING MUD "SUPER - MUD"  
**AUGER USED**  YES  NO  
 TYPE AND DIAMETER, IN. \_\_\_\_\_

CASING HAMMER, LBS. 140 AVERAGE FALL, IN. 30  
 SAMPLER HAMMER, LBS. 140 AVERAGE FALL, IN. 30

**WATER LEVEL OBSERVATIONS IN BOREHOLE**

DATE	TIME	DEPTH OF HOLE	DEPTH OF CASING	DEPTH TO WATER	CONDITIONS OF OBSERVATION

**PIEZOMETER INSTALLED**  YES  NO **SKETCH SHOWN ON** \_\_\_\_\_

**STANDPIPE:** TYPE \_\_\_\_\_ ID, IN. \_\_\_\_\_ LENGTH, FT. \_\_\_\_\_ TOP ELEV. \_\_\_\_\_  
**INTAKE ELEMENT:** TYPE \_\_\_\_\_ OD, IN. \_\_\_\_\_ LENGTH, FT. \_\_\_\_\_ TIP ELEV. \_\_\_\_\_  
**FILTER:** MATERIAL \_\_\_\_\_ OD, IN. \_\_\_\_\_ LENGTH, FT. \_\_\_\_\_ BOT. ELEV. \_\_\_\_\_

**PAY QUANTITIES**

2.5" DIA. DRY SAMPLE BORING LIN. FT. 33.0 NO. OF 2" SHELBY TUBE SAMPLES \_\_\_\_\_  
 3.5" DIA. U-SAMPLE BORING LIN. FT. \_\_\_\_\_ NO. OF 3" UNDISTURBED SAMPLES \_\_\_\_\_  
 CORE DRILLING IN ROCK LIN. FT. \_\_\_\_\_ OTHER \_\_\_\_\_  
 LOWERED CASING 12'  
1 EXTRA SPOON

**BORING CONTRACTOR** HARDIN HUBER INC.  
**DRILLER** PAUL SUIT **HELPERS** TERRY MISE  
**REMARKS** GROUTED UPON COMPLETION.  
**RESIDENT ENGINEER** BEN BENBASSET **DATE** 12-13-89