MUESER RUTLEDGE CONSULTING ENGINEERS

BORING LOG

BORING NO. MR-243
SHEET 1 **OF** 2
FILE NO. 6909
MUDLINE ELEV. -12.0
RES. ENGR. BEN BENBASSET

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

DAILY PROGRESS	SAMPLE NO.	SAMPLE DEPTH	SAMPLE BLOWS/6"	SAMPLE DESCRIPTION	STRATA	DEPTH	CASING BLOWS	REMARKS
1300 Friday 1-5-90 Partly Cloudy 40°F	1D	0.0	WR/24"	Black organic silt, sm fine sand (OL)			WOC	Lowered casing 14.0'.
		2.0						Tide @ +2.0'.
					O			1D: DPC-N
	2D	4.5	WR/24"	Soft black organic clayey silt, tr fine sand (OH)		5.0		DPC-N
		6.5						
						8.0		
				Top 10": Gray coarse to fine sandy gravel, sm silt (GM)			Drove	3D: DPC :
	3D	9.5	14-15			10.0	Casing	Top-Violet
		11.5	6-10	Mid 2": Hard white silty clay, tr coarse and (CL)	S-2			Mid- Voilet
				Bot 12": Gray fine to coarse sand, tr silt, gravel (SP-SM)				Bot-Violet
						13.0		White wash at 13' (inside casing)
	4D	14.5	12-17	Hard tan clayey silt, sm fine sand (ML)		15.0		4D: DPC-Violet
		16.5	27-35					
					M			
	5D	19.0	3-17	Hard pink silty clay (CH)		20.0	Drilled	DPC-Violet
		21.0	25-46				Ahead	Drill chatter at 21.5'.
						21.5		6D: DPC: Top-Pink, Bot-N
	6D	24.0	26-87	Top 20": White fine to coarse sand, sm gravel, tr silt (SP-SM)		25.0		7D:DPC-N
		26.0	67-100				Open	Tide at +0.5'
				Bot 4": Orange fine to coarse sand, sm gravel, tr silt (SP-SM)	S-4		Hole	Monday, hole collpased to 21.5' (Bot of M)
1630	7D	29.0	37-100/4"	Orange coarse to fine sand, sm gravel, tr silt (SP-SM)		30.0		over weekend. Redrilled to 35.5'.
		29.8						White wash at 35.0'.
0840 Monday 1-8-90 Rain, Snow, Hail 30°F						35.0		8D: DPC-Pink
	8D	35.5	7-19	Hard white fine to medium sandy silt, sm gravel (Decomposed Rock) (ML)				Drove through 6" of wash for top of sample.
		37.5	36-67		DR			
1230						40.0		Hole collapsing sand running down
						40.5		hole before spoon lowered.
								Made 3 attempts then called hole
						45.0		at 40.5'. Wash water still white, tan did not encounter Stratum TZ.
						50.0		End of boring at 37.5'. Grouted upon completion.

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BORING NO. MR-243
SHEET 2 **OF** 2
FILE NO. 6909
MUDLINE ELEV. -12.0
DATUM BC&CMD

PROJECT ALLIED-SIGNAL INC. BALTIMORE WORKS
LOCATION BALTIMORE, MARYLAND
BORING LOCATION OFFSHORE, NORTH BULKHEAD, WEST END

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 [X] YES [ ] NO
DIA., IN. 2.5 DEPTH, FT. FROM 0.0 TO 25.5
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 [X] YES [ ] NO
DIAMETER OF ROTARY BIT, IN. 2
TYPE OF DRILLING MUD: WATER/SUPER MUD/ZEOGEL
AUGER USED [ ] YES [X] 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 [X] 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. 40.5
3.5" DIA. U-SAMPLE BORING LIN. FT.
CORE DRILLING IN ROCK LIN. FT.

NO. OF 3" SHELBY TUBE SAMPLES
NO. OF 3" UNDISTURBED SAMPLES
OTHER

BORING CONTRACTOR HARDIN HUBER INC.
DRILLER DON WILLEY HELPERS TERRY MISE/JAY CORRON
REMARKS GROUTED UPON COMPLETION.
RESIDENT ENGINEER BEN BENBASSET DATE 1-8-90