

DRILLING LOG		DIVISION: South Atlantic	INSTALLATION: Jacksonville District	SHEET 1 of 1
1. PROJECT DELRAY BEACH		10. SIZE AND TYPE OF BIT 3"		
2. LOCATION (Coordinates or Station) X= 966513 Y= 765209		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) NGVD		
3. DRILLING AGENCY: ALPINE SEISMIC		12. MANUFACTURER'S DESIGNATION OF DRILL ALPINE PNEUMATIC		
4. HOLE NO. (As shown on drawing title and file number) DB-99-30		13. TOT NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0.0 undisturbed: 0.0		
5. NAME OF DRILLER ROB SUSKO		14. TOTAL NO. OF CORE BOXES 1		
6. DIRECTION OF HOLE VERTICAL		16. ELEVATION GROUND WATER		
7. THICKNESS OF BURDEN 0.0 FT		16. DATE HOLE Started Completed 4/20/99 4/20/99		
8. DEPTH DRILLED INTO ROCK 0.0 FT		17. ELEVATION TOP OF HOLE -64.0 ft.		
9. TOTAL DEPTH OF HOLE 15.9' FT		18. TOTAL CORE RECOVERY FOR BORING 82%		
		19. SIGNATURE OF GEOLOGIST IBRAHIM DREMALI		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-64	0					SP
	1				1	Sample #1, Depth = 4.0' 0.17 mm, 0.66 phi sorting 2.87% silt
	2					
	3					
	4					
	5					
	6					
	7					
	8		SAND, fine grained, trace shell hash, 2" shell fragment at -70.4', Gray (5Y-6/1) (SP)		2	Sample #2, Depth = 9.0' 0.14 mm, 0.89 phi sorting 4.65% silt
	9					
	10					
	11					
	12					
	13				3	Sample #3, Depth = 13.0' 0.16 mm, 0.80 phi sorting 8.30% silt
	14					
	15					
-79.9	16		End of Boring			
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					Note: Soils are classified in accordance with the Unified Soils Classification System.

PROJECT: Delray Beach

HOLE NUMBER:

GRADATION ANALYSIS REPORT
DELRAY BEACH VIBRACORES 1999
TESTED BY: RW ON: 8/99

SAMPLE NO.: DB99-30#1
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 4.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 96.81
SAMPLE WEIGHT AFTER WASH (GRAMS): 94.19

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	0.01	0.01	99.99
5	-2.00	4.000	0.03	0.03	99.97
7	-1.50	2.800	0.12	0.12	99.88
10	-1.00	2.000	0.35	0.36	99.64
14	-0.50	1.400	0.70	0.72	99.28
18	0.00	1.000	1.18	1.22	98.78
25	0.50	0.710	1.86	1.92	98.08
35	1.00	0.500	3.04	3.14	96.86
45	1.50	0.355	5.02	5.19	94.81
60	2.00	0.250	10.56	10.91	89.09
80	2.50	0.180	31.77	32.82	67.18
120	3.00	0.125	78.67	81.26	18.74
170	3.50	0.090	93.74	96.83	3.17
200	3.75	0.075	94.03	97.13	2.87
230	4.00	0.063	95.45	98.60	1.40
PAN			96.77	99.96	0.04

PHI (5): 1.45 PHI (16): 2.12 PHI (25): 2.32
PHI (50): 2.68 PHI (75): 2.94 PHI (84): 3.09
PHI (95): 3.44

SIEVE LOSS (g): 0.04 SILT/CLAY: 2.87%
SKEWNESS: -0.472 KURTOSIS: 1.327

GRAPHIC METHOD

MEAN (PHI): 2.56 SORTING: 0.49
MEAN (mm) : 0.17 MEDIAN (mm): 0.16

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.56 SORTING: 0.66
MEAN (mm) : 0.17

DATA FILE NAME: DB99-30#1.TAB

GRADATION ANALYSIS REPORT
DELRAY BEACH VIBRACORES 1999
TESTED BY: RW ON: 8/99

SAMPLE NO.: DB99-30#2
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 9.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 98.49
SAMPLE WEIGHT AFTER WASH (GRAMS): 94.74

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	0.00	0.00	100.00
5	-2.00	4.000	0.20	0.20	99.80
7	-1.50	2.800	0.33	0.34	99.66
10	-1.00	2.000	0.61	0.62	99.38
14	-0.50	1.400	0.99	1.01	98.99
18	0.00	1.000	1.40	1.42	98.58
25	0.50	0.710	2.21	2.24	97.76
35	1.00	0.500	3.62	3.68	96.32
45	1.50	0.355	5.86	5.95	94.05
60	2.00	0.250	13.54	13.75	86.25
80	2.50	0.180	33.30	33.81	66.19
120	3.00	0.125	35.26	35.80	64.20
170	3.50	0.090	75.72	76.88	23.12
200	3.75	0.075	93.91	95.35	4.65
230	4.00	0.063	96.18	97.65	2.35
PAN			98.47	99.98	0.02

PHI(5): 1.29 PHI(16): 2.06 PHI(25): 2.28
PHI(50): 3.17 PHI(75): 3.48 PHI(84): 3.60
PHI(95): 3.75

SIEVE LOSS(g): 0.02 SILT/CLAY: 4.65%
SKEWNESS: -0.850 KURTOSIS: 0.840

GRAPHIC METHOD

MEAN (PHI): 2.77 SORTING: 0.77
MEAN (mm) : 0.15 MEDIAN (mm): 0.11
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.83 SORTING: 0.89
MEAN (mm) : 0.14

DATA FILE NAME: DB99-30#2.TAB

GRADATION ANALYSIS REPORT
DELRAY BEACH VIBRACORES 1999
TESTED BY: RW ON: 8/99

SAMPLE NO.: DB99-30#3
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 13.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 102.36
SAMPLE WEIGHT AFTER WASH (GRAMS): 94.07

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.00	16.000	0.00	0.00	100.00
5/16	-3.00	8.000	0.00	0.00	100.00
5	-2.00	4.000	0.13	0.13	99.87
7	-1.50	2.800	0.30	0.29	99.71
10	-1.00	2.000	0.57	0.56	99.44
14	-0.50	1.400	0.97	0.95	99.05
18	0.00	1.000	1.58	1.54	98.46
25	0.50	0.710	2.74	2.68	97.32
35	1.00	0.500	4.88	4.77	95.23
45	1.50	0.355	8.08	7.89	92.11
60	2.00	0.250	17.72	17.31	82.69
80	2.50	0.180	39.04	38.14	61.86
120	3.00	0.125	79.52	77.69	22.31
170	3.50	0.090	93.45	91.30	8.70
200	3.75	0.075	93.86	91.70	8.30
230	4.00	0.063	98.16	95.90	4.10
PAN			102.34	99.98	0.02

PHI(5): 1.04 PHI(16): 1.93 PHI(25): 2.18
PHI(50): 2.65 PHI(75): 2.97 PHI(84): 3.23
PHI(95): 3.95

SIEVE LOSS (g): 0.02 SILT/CLAY: 8.30%
SKEWNESS: -0.243 KURTOSIS: 1.526

GRAPHIC METHOD

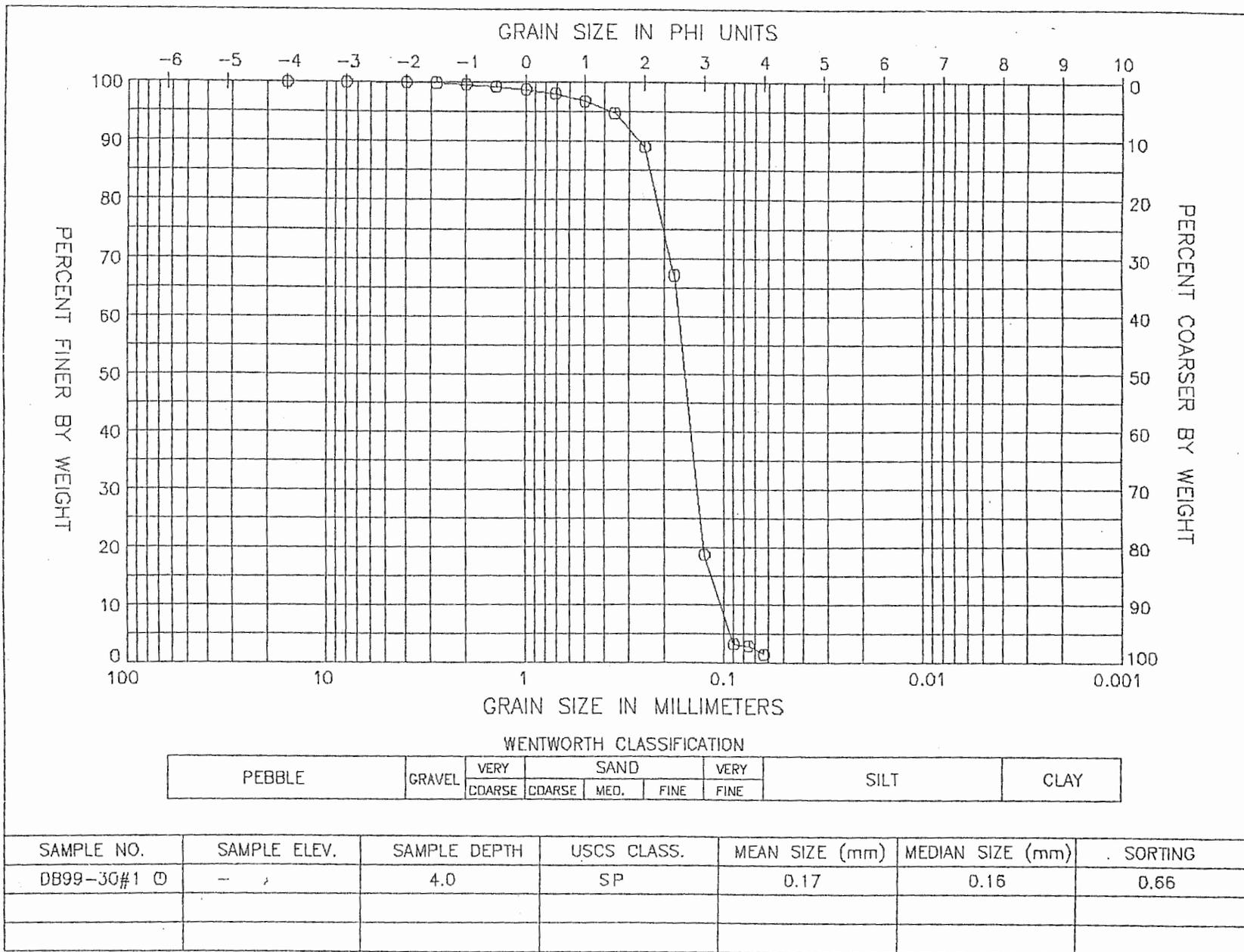
MEAN (PHI): 2.56 SORTING: 0.65
MEAN (mm): 0.17 MEDIAN (mm): 0.16
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

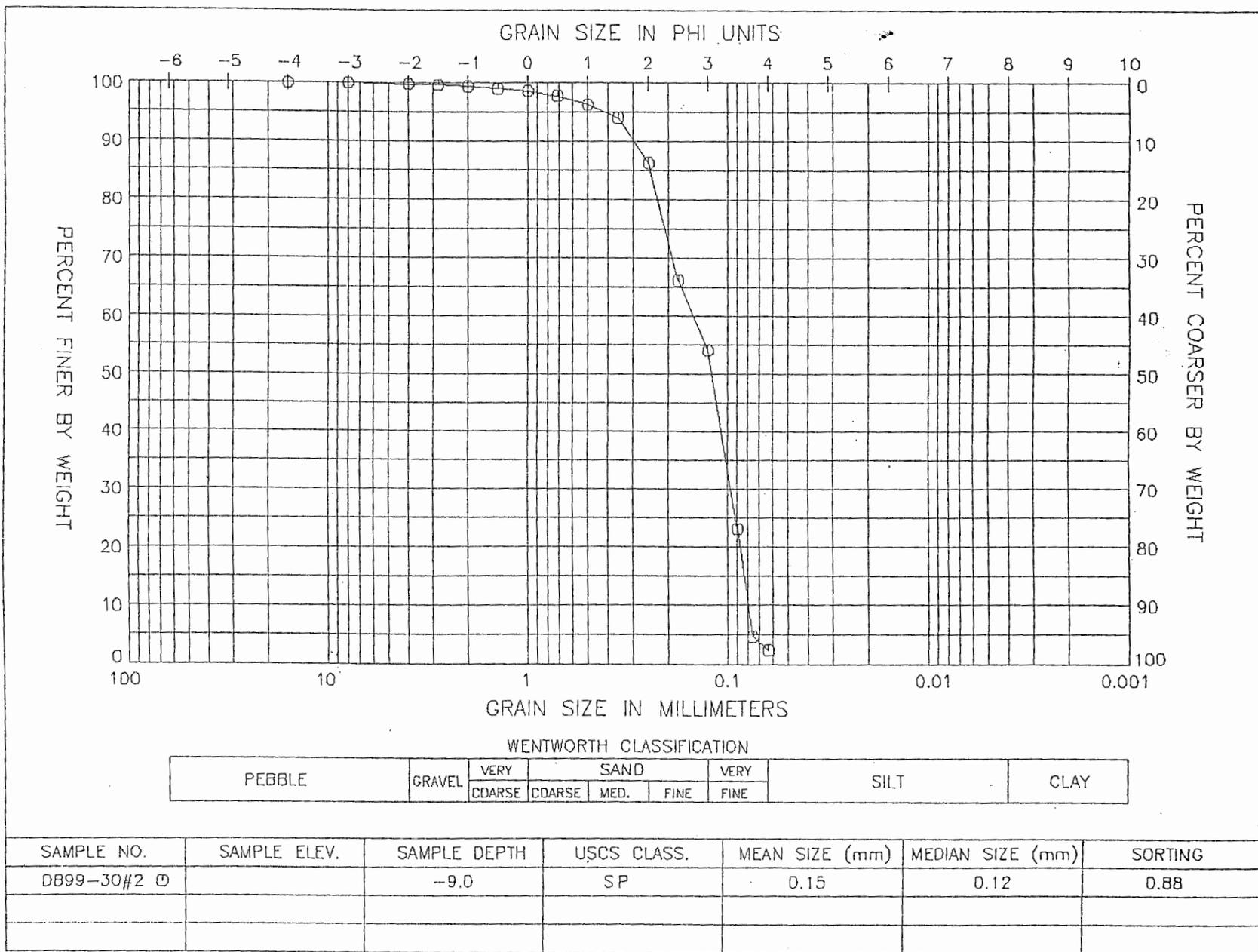
MEAN (PHI): 2.49 SORTING: 0.80
MEAN (mm): 0.18

DATA FILE NAME: DB99-30#3.TAB

GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999



GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999



GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999

