

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= 965937 Y= 766926		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-99-26		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		15. 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 -47.8ft.		
9. TOTAL DEPTH OF HOLE 18.1' FT		18. TOTAL CORE RECOVERY FOR BORING 99%		
		19. SIGNATURE OF GEOLOGIST IBRAHIM DREMALI		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS		
-47.8	0		SAND, fine grained, trace shell hash, Gray (5Y-6/1) (SP)		1	SP Sample #1, Depth = 1.0' 0.23 mm, 0.76 phi sorting 1.35% silt		
-50.3	2		fine-grained, trace shell hash, Gray (5Y-6/1) (SP) from -50.3' to -57.3'		2	Sample #2, Depth = 7.0' 0.21 mm, 0.67 phi sorting 1.5% silt		
-57.3	10			fine-grained, trace shell hash, Gray (5Y-6/1) (SP) from -57.3' to -59.5'		3	Sample #3, Depth = 10.5' 0.33 mm, 0.87 phi sorting 0.98% silt	
-59.5	12				fine-grained, trace shell hash, Gray (5Y-6/1) (SP) from -59.5' to -65.9'		4	Sample #4, Depth = 14.0' 0.20 mm, 0.62 phi sorting 2.28% silt
-65.9	18			End of Boring				
	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.: DB99-26#1
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 1.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 112.23
SAMPLE WEIGHT AFTER WASH (GRAMS): 110.78

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	0.08	0.07	99.93
7	-1.50	2.800	0.17	0.15	99.85
10	-1.00	2.000	0.34	0.30	99.70
14	-0.50	1.400	0.85	0.76	99.24
18	0.00	1.000	1.70	1.51	98.49
25	0.50	0.710	3.98	3.55	96.45
35	1.00	0.500	9.45	8.42	91.58
45	1.50	0.355	18.44	16.43	83.57
60	2.00	0.250	42.29	37.68	62.32
80	2.50	0.180	76.87	68.49	31.51
120	3.00	0.125	104.23	92.87	7.13
170	3.50	0.090	110.68	98.62	1.38
200	3.75	0.075	110.72	98.65	1.35
230	4.00	0.063	111.46	99.31	0.69
PAN			112.20	99.97	0.03

PHI(5): 0.65 PHI(16): 1.47 PHI(25): 1.70
PHI(50): 2.20 PHI(75): 2.63 PHI(84): 2.82
PHI(95): 3.19

SIEVE LOSS(g): 0.03 SILT/CLAY: 1.35%
SKEWNESS: -0.420 KURTOSIS: 1.115

GRAPHIC METHOD

MEAN (PHI): 2.07 SORTING: 0.67
MEAN (mm) : 0.24 MEDIAN (mm): 0.22
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.09 SORTING: 0.76
MEAN (mm) : 0.23

DATA FILE NAME: DB99-26#1.TAB

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

SAMPLE NO.: DB99-26#2
 SAMPLE ELEV. (FT. NGVD):
 SAMPLE DEPTH (FT.): 7.0
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 99.70
 SAMPLE WEIGHT AFTER WASH (GRAMS): 98.28

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	0.12	0.12	99.88
7	-1.50	2.800	0.18	0.18	99.82
10	-1.00	2.000	0.37	0.37	99.63
14	-0.50	1.400	0.59	0.59	99.41
18	0.00	1.000	0.99	0.99	99.01
25	0.50	0.710	1.49	1.49	98.51
35	1.00	0.500	3.77	3.78	96.22
45	1.50	0.355	10.67	10.70	89.30
60	2.00	0.250	29.71	29.80	70.20
80	2.50	0.180	63.07	63.26	36.74
120	3.00	0.125	92.94	93.22	6.78
170	3.50	0.090	98.07	98.37	1.63
200	3.75	0.075	98.20	98.50	1.50
230	4.00	0.063	98.96	99.26	0.74
PAN			99.68	99.98	0.02

PHI(5): 1.09 PHI(16): 1.64 PHI(25): 1.87
 PHI(50): 2.30 PHI(75): 2.70 PHI(84): 2.85
 PHI(95): 3.17

SIEVE LOSS(g): 0.02 SILT/CLAY: 1.50%
 SKEWNESS: -0.284 KURTOSIS: 1.040

GRAPHIC METHOD

MEAN (PHI): 2.21 SORTING: 0.60
 MEAN (mm) : 0.22 MEDIAN (mm): 0.20
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.22 SORTING: 0.67
 MEAN (mm) : 0.21

DATA FILE NAME: DB99-26#2.TAB

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

SAMPLE NO.: DB99-26#3
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 10.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 97.38
SAMPLE WEIGHT AFTER WASH (GRAMS): 96.45

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	0.10	0.10	99.90
7	-1.50	2.800	0.21	0.22	99.78
10	-1.00	2.000	0.97	1.00	99.00
14	-0.50	1.400	2.39	2.45	97.55
18	0.00	1.000	4.49	4.61	95.39
25	0.50	0.710	8.86	9.10	90.90
35	1.00	0.500	20.88	21.44	78.56
45	1.50	0.355	41.36	42.47	57.53
60	2.00	0.250	64.64	66.38	33.62
80	2.50	0.180	83.78	86.03	13.97
120	3.00	0.125	94.53	97.07	2.93
170	3.50	0.090	96.36	98.95	1.05
200	3.75	0.075	96.43	99.02	0.98
230	4.00	0.063	96.91	99.52	0.48
PAN			97.38	100.00	0.00

PHI(5): 0.04 PHI(16): 0.78 PHI(25): 1.08
PHI(50): 1.66 PHI(75): 2.22 PHI(84): 2.45
PHI(95): 2.91

SIEVE LOSS(g): 0.00 SILT/CLAY: 0.98%
SKEWNESS: -0.219 KURTOSIS: 1.034

GRAPHIC METHOD

MEAN (PHI): 1.57 SORTING: 0.83
MEAN (mm) : 0.34 MEDIAN (mm): 0.32
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.59 SORTING: 0.87
MEAN (mm) : 0.33

DATA FILE NAME: DB99-26#3.TAB

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

SAMPLE NO.: DB99-26#4
SAMPLE ELEV. (FT. NGVD): -
SAMPLE DEPTH (FT.): 14.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 93.77
SAMPLE WEIGHT AFTER WASH (GRAMS): 91.67

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	0.00	0.00	100.00
7	-1.50	2.800	0.09	0.10	99.90
10	-1.00	2.000	0.26	0.28	99.72
14	-0.50	1.400	0.43	0.46	99.54
18	0.00	1.000	0.68	0.73	99.27
25	0.50	0.710	1.23	1.31	98.69
35	1.00	0.500	2.67	2.85	97.15
45	1.50	0.355	6.34	6.76	93.24
60	2.00	0.250	21.53	22.96	77.04
80	2.50	0.180	55.81	59.52	40.48
120	3.00	0.125	86.00	91.71	8.29
170	3.50	0.090	91.52	97.60	2.40
200	3.75	0.075	91.63	97.72	2.28
230	4.00	0.063	92.71	98.87	1.13
PAN			93.77	100.00	0.00

PHI(5): 1.27 PHI(16): 1.79 PHI(25): 2.03
PHI(50): 2.37 PHI(75): 2.74 PHI(84): 2.88
PHI(95): 3.28

SIEVE LOSS(g): 0.00 SILT/CLAY: 2.28%
SKEWNESS: -0.169 KURTOSIS: 1.153

GRAPHIC METHOD

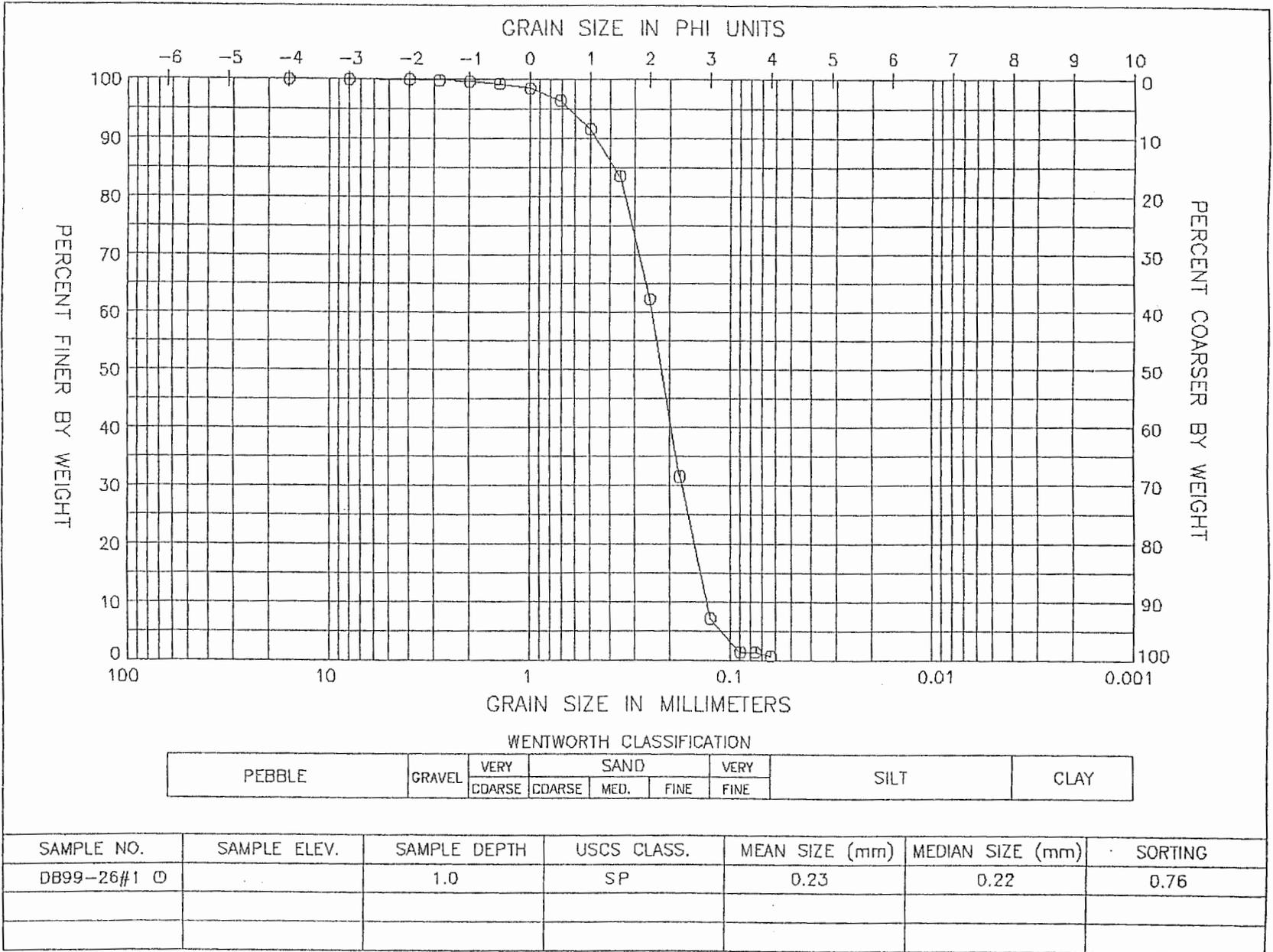
MEAN (PHI): 2.32 SORTING: 0.55
MEAN (mm) : 0.20 MEDIAN (mm): 0.19
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

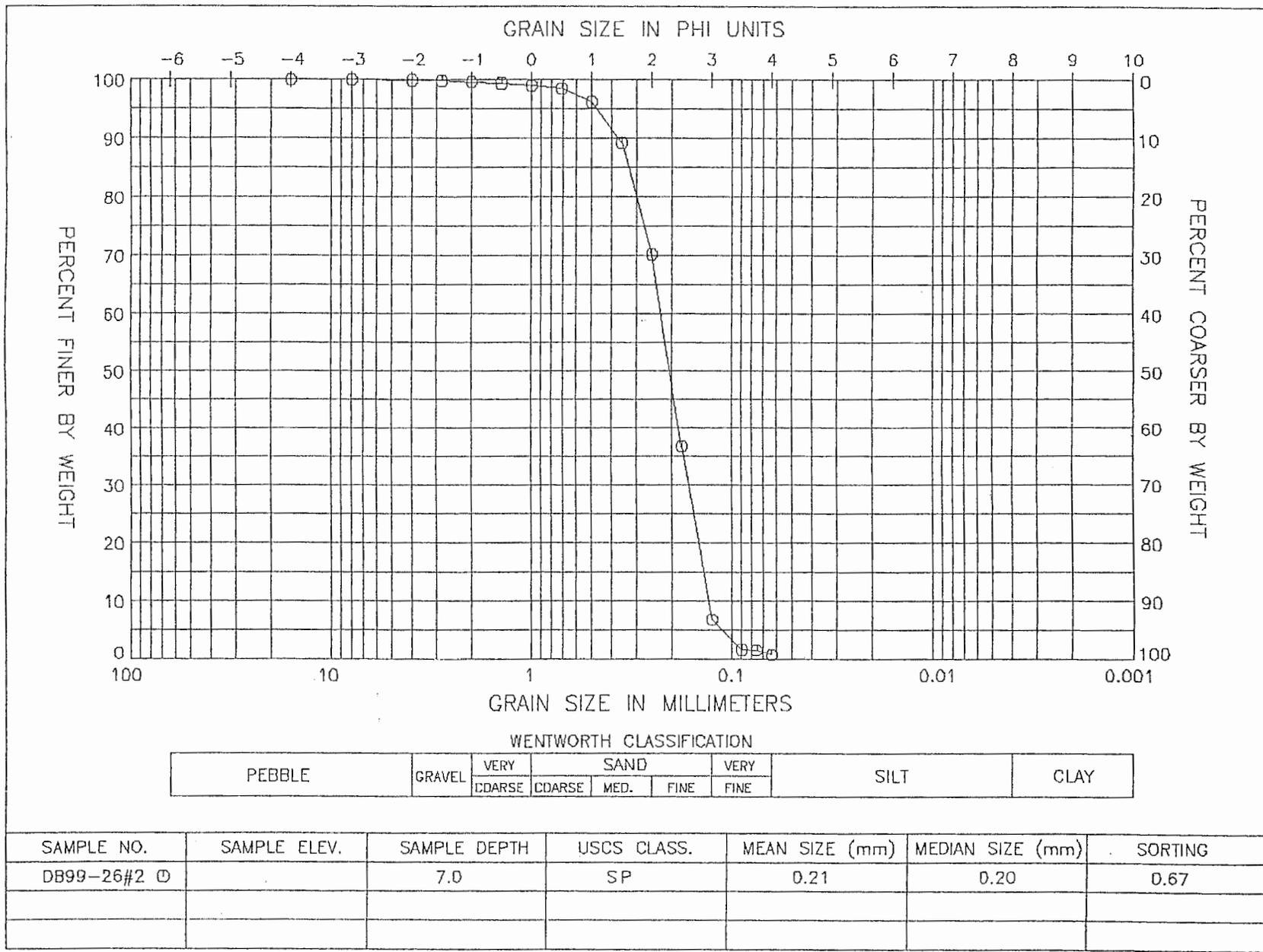
MEAN (PHI): 2.31 SORTING: 0.62
MEAN (mm) : 0.20

DATA FILE NAME: DB99-26#4.TAB

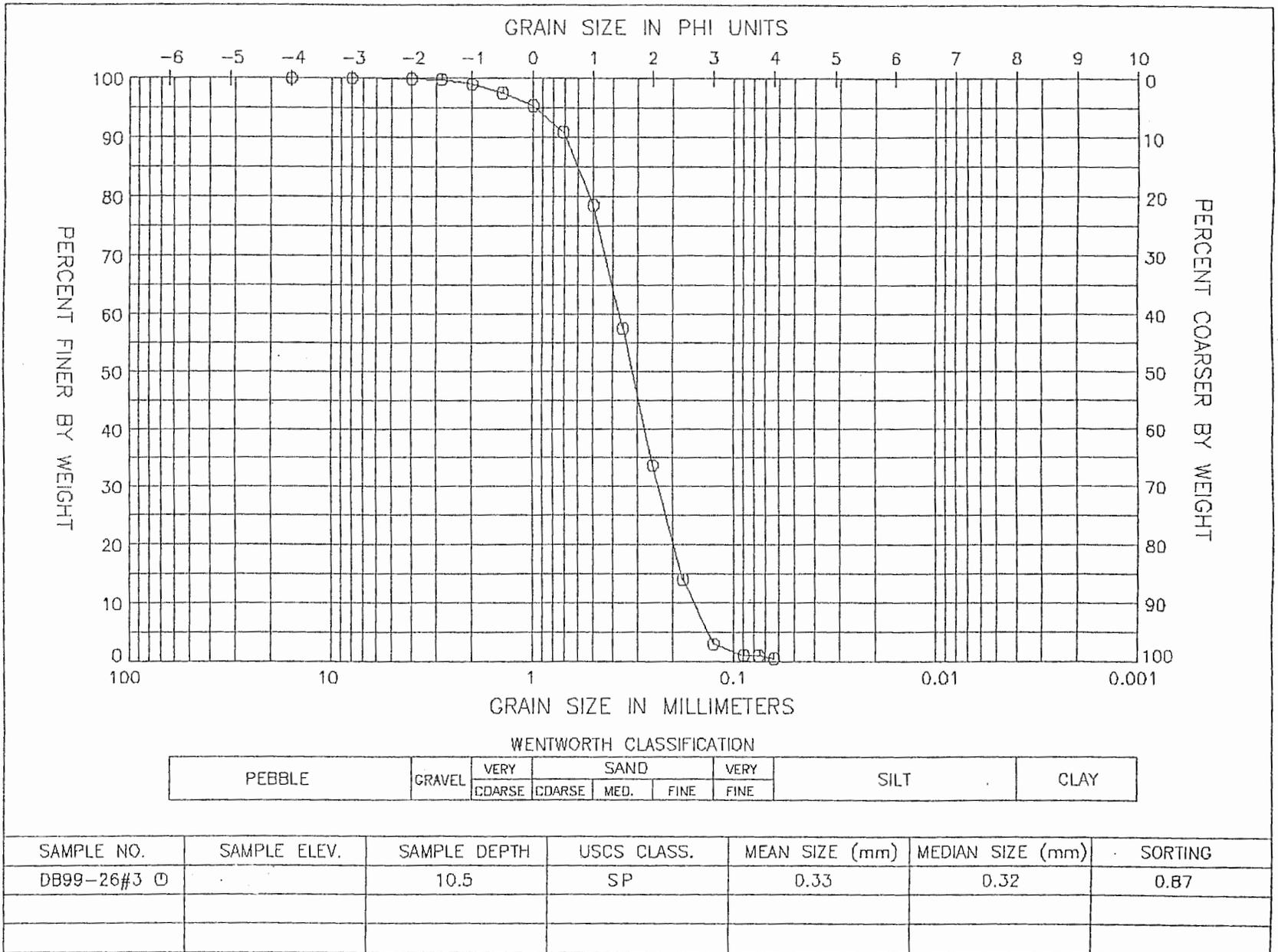
GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999



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