

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= 966,325 Y= 769,500				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-99-10				13. TOT NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 0.0 undisturbed: 0.0
6. 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 -41.0 ft.
9. TOTAL DEPTH OF HOLE 19.0' FT				18. TOTAL CORE RECOVERY FOR BORING 96%
				19. SIGNATURE OF GEOLOGIST IBRAHIM DREMALI

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS	
-41	0					SP	
	1					1	Sample #1, Depth = 2.0' 0.20 mm, 0.75 phi sorting 2.4% silt
	2			SAND, fine-grained, trace shell hash, Gray (5Y-6/1) (SP)			
	3					2	Sample #2, Depth = 4.0' 0.27 mm, 0.90 phi sorting 4.19% silt
	4						
	5						
-46.8	6			fine-grained, trace shell hash, Gray (5Y-6/1) (SP) from -46.8' to -47.5'		3	Sample #3, Depth = 6.1' 0.31 mm, 1.06 phi sorting 1.49% silt
-47.5	7						
	8						
	9					4	Sample #4, Depth = 10.0' 0.22 mm, 0.65 phi sorting 1.32% silt
	10						
	11						
	12						
	13			fine-grained, trace shell hash, Gray (5Y-6/1) (SP) from -47.5' to -60.0'			
	14						
	15					5	Sample #5, Depth = 15.0' 0.22 mm, 0.69 phi sorting 1.48% silt
	16						
	17						
	18						
-60	19		End of Boring				
	20						
	21						
	22						
	23						
	24						

Note: Soils are visually 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.: DB99-10 S#1
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 2.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 190.22
SAMPLE WEIGHT AFTER WASH (GRAMS): 185.81

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	0.09	0.05	99.95
7	-1.50	2.800	0.36	0.19	99.81
10	-1.00	2.000	0.80	0.42	99.58
14	-0.50	1.400	1.59	0.84	99.16
18	0.00	1.000	2.92	1.54	98.46
25	0.50	0.710	5.38	2.83	97.17
35	1.00	0.500	11.54	6.07	93.93
45	1.50	0.355	22.18	11.66	88.34
60	2.00	0.250	45.03	23.67	76.33
80	2.50	0.180	96.45	50.70	49.30
120	3.00	0.125	172.00	90.42	9.58
170	3.50	0.090	185.47	97.50	2.50
200	3.75	0.075	185.66	97.60	2.40
230	4.00	0.063	187.99	98.83	1.17
PAN			190.19	99.98	0.02

PHI(5): 0.84 PHI(16): 1.68 PHI(25): 2.02
PHI(50): 2.49 PHI(75): 2.81 PHI(84): 2.92
PHI(95): 3.32

SIEVE LOSS(g): 0.03 SILT/CLAY: 2.40%
SKEWNESS: -0.658 KURTOSIS: 1.305

GRAPHIC METHOD

MEAN (PHI): 2.25 SORTING: 0.62
MEAN (mm): 0.21 MEDIAN (mm): 0.18
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.30 SORTING: 0.75
MEAN (mm): 0.20

DATA FILE NAME: DB99-10#1.TAB

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

SAMPLE NO.: DB99-10 S#2
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 4.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 174.50
SAMPLE WEIGHT AFTER WASH (GRAMS): 167.28

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	0.06	0.03	99.97
7	-1.50	2.800	0.34	0.19	99.81
10	-1.00	2.000	1.15	0.66	99.34
14	-0.50	1.400	2.88	1.65	98.35
18	0.00	1.000	5.08	2.91	97.09
25	0.50	0.710	11.07	6.34	93.66
35	1.00	0.500	28.53	16.35	83.65
45	1.50	0.355	50.92	29.18	70.82
60	2.00	0.250	84.33	48.33	51.67
80	2.50	0.180	127.67	73.16	26.84
120	3.00	0.125	162.24	92.97	7.03
170	3.50	0.090	168.05	96.30	3.70
200	3.75	0.075	167.19	95.81	4.19
230	4.00	0.063	170.86	97.91	2.09
PAN			174.48	99.99	0.01

PHI(5): 0.30 PHI(16): 0.98 PHI(25): 1.34
PHI(50): 2.03 PHI(75): 2.55 PHI(84): 2.77
PHI(95): 3.30

SIEVE LOSS(g): 0.02 SILT/CLAY: 4.19%
SKEWNESS: -0.256 KURTOSIS: 1.017

GRAPHIC METHOD

MEAN (PHI): 1.88 SORTING: 0.90
MEAN (mm) : 0.27 MEDIAN (mm): 0.24
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.87 SORTING: 0.90
MEAN (mm) : 0.27

DATA FILE NAME: DB99-10#2.TAB

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

SAMPLE NO.: DB99-10 S#3
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 6.1
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 243.27
SAMPLE WEIGHT AFTER WASH (GRAMS): 239.73

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	0.25	0.10	99.90
5	-2.00	4.000	1.32	0.54	99.46
7	-1.50	2.800	3.50	1.44	98.56
10	-1.00	2.000	4.57	1.88	98.12
14	-0.50	1.400	8.94	3.67	96.33
18	0.00	1.000	17.35	7.13	92.87
25	0.50	0.710	30.81	12.66	87.34
35	1.00	0.500	57.13	23.48	76.52
45	1.50	0.355	89.68	36.86	63.14
60	2.00	0.250	133.53	54.89	45.11
80	2.50	0.180	185.68	76.33	23.67
120	3.00	0.125	233.10	95.82	4.18
170	3.50	0.090	239.41	98.41	1.59
200	3.75	0.075	239.65	98.51	1.49
230	4.00	0.063	241.47	99.26	0.74
PAN			243.26	100.00	0.00

PHI(5): -0.31 PHI(16): 0.65 PHI(25): 1.06
PHI(50): 1.86 PHI(75): 2.47 PHI(84): 2.70
PHI(95): 2.98

SIEVE LOSS(g): 0.01 SILT/CLAY: 1.49%
SKEWNESS: -0.518 KURTOSIS: 0.954

GRAPHIC METHOD

MEAN (PHI): 1.58 SORTING: 1.02
MEAN (mm) : 0.34 MEDIAN (mm): 0.27

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.67 SORTING: 1.06
MEAN (mm) : 0.31

DATA FILE NAME: DB99-10#3.TAB

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

SAMPLE NO.: DB99-10 S#5
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 15.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 191.15
SAMPLE WEIGHT AFTER WASH (GRAMS): 188.42

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	0.24	0.13	99.87
7	-1.50	2.800	0.50	0.26	99.74
10	-1.00	2.000	0.94	0.49	99.51
14	-0.50	1.400	1.53	0.80	99.20
18	0.00	1.000	2.23	1.17	98.83
25	0.50	0.710	3.82	2.00	98.00
35	1.00	0.500	9.28	4.85	95.15
45	1.50	0.355	20.09	10.51	89.49
60	2.00	0.250	54.60	28.56	71.44
80	2.50	0.180	122.66	64.17	35.83
120	3.00	0.125	179.26	93.78	6.22
170	3.50	0.090	188.23	98.47	1.53
200	3.75	0.075	188.32	98.52	1.48
230	4.00	0.063	189.73	99.26	0.74
PAN			191.13	99.99	0.01

PHI(5): 1.01 PHI(16): 1.65 PHI(25): 1.90
PHI(50): 2.30 PHI(75): 2.68 PHI(84): 2.83
PHI(95): 3.13

SIEVE LOSS(g): 0.02 SILT/CLAY: 1.48%
SKEWNESS: -0.388 KURTOSIS: 1.110

GRAPHIC METHOD

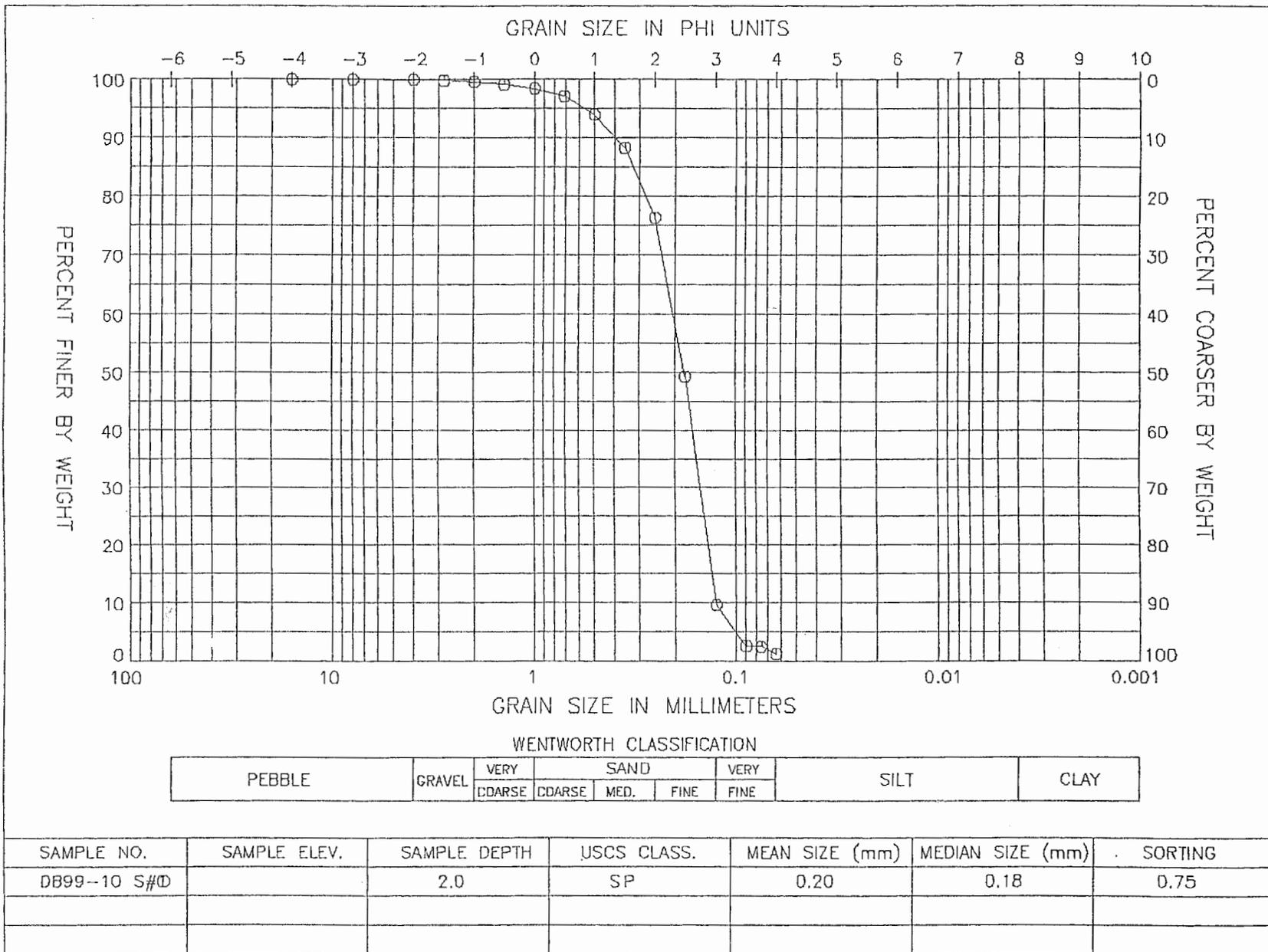
MEAN (PHI): 2.19 SORTING: 0.59
MEAN (mm) : 0.22 MEDIAN (mm): 0.20
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

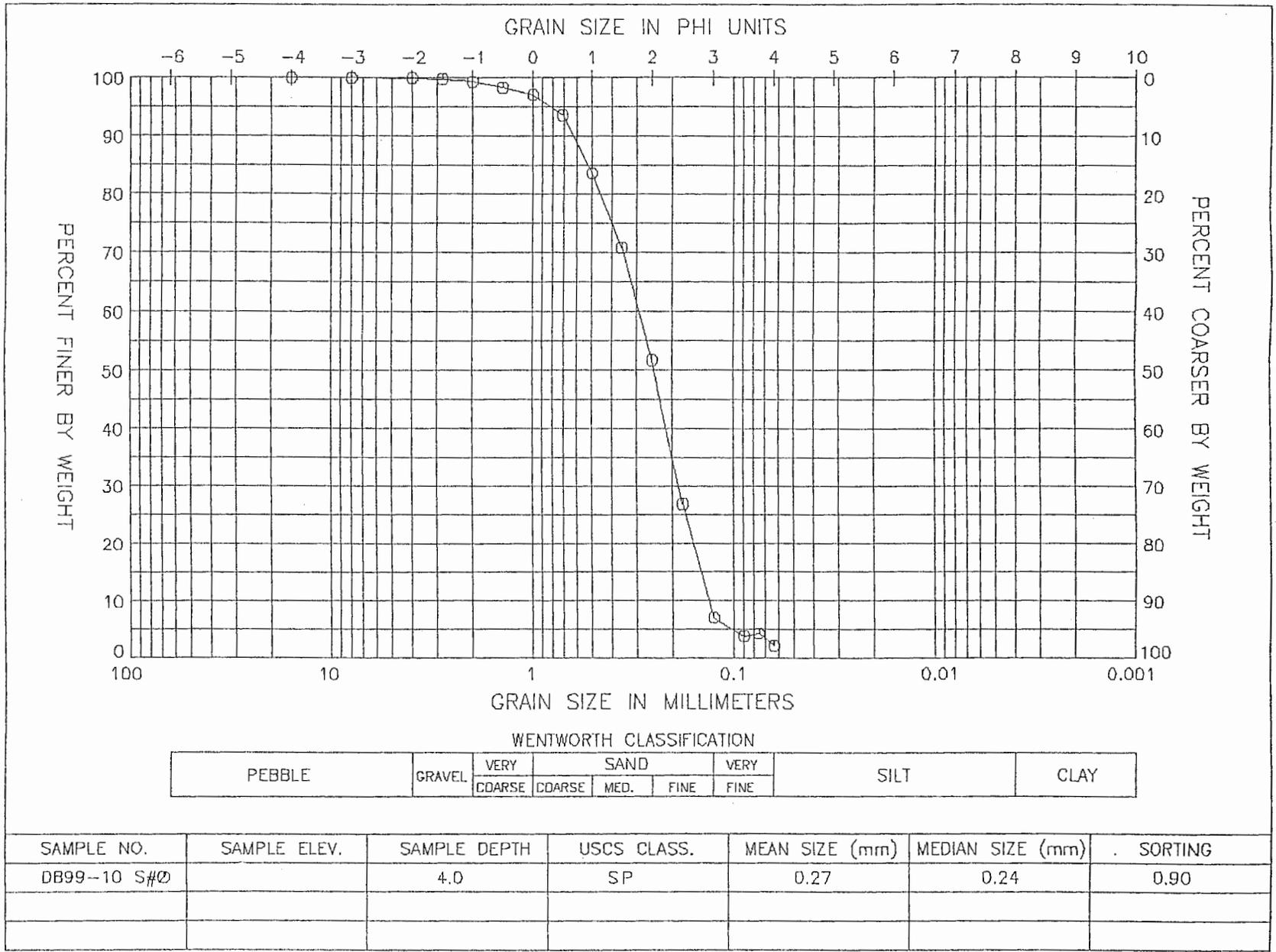
MEAN (PHI): 2.21 SORTING: 0.69
MEAN (mm) : 0.22

DATA FILE NAME: DB99-10#5.TAB

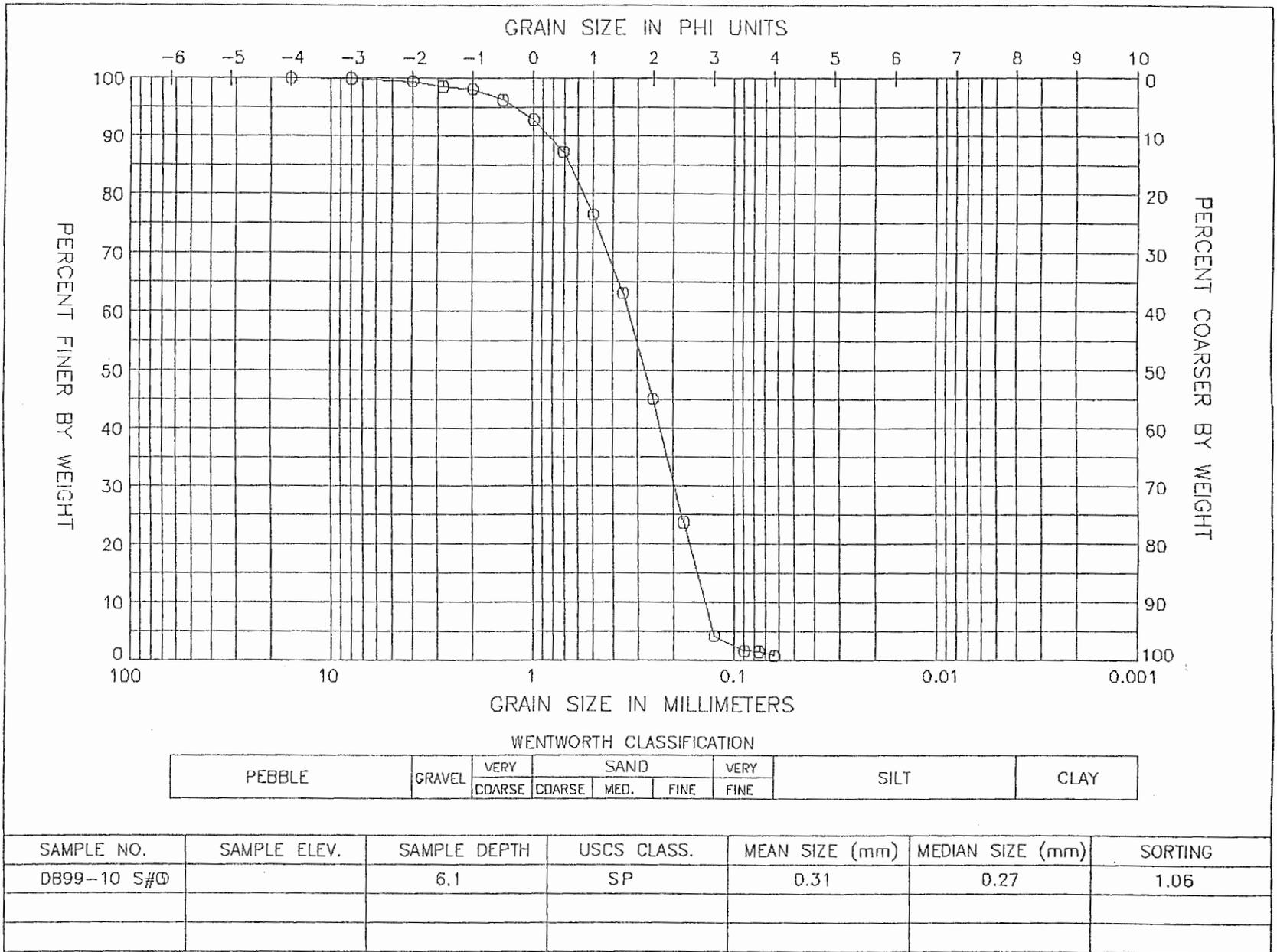
GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999



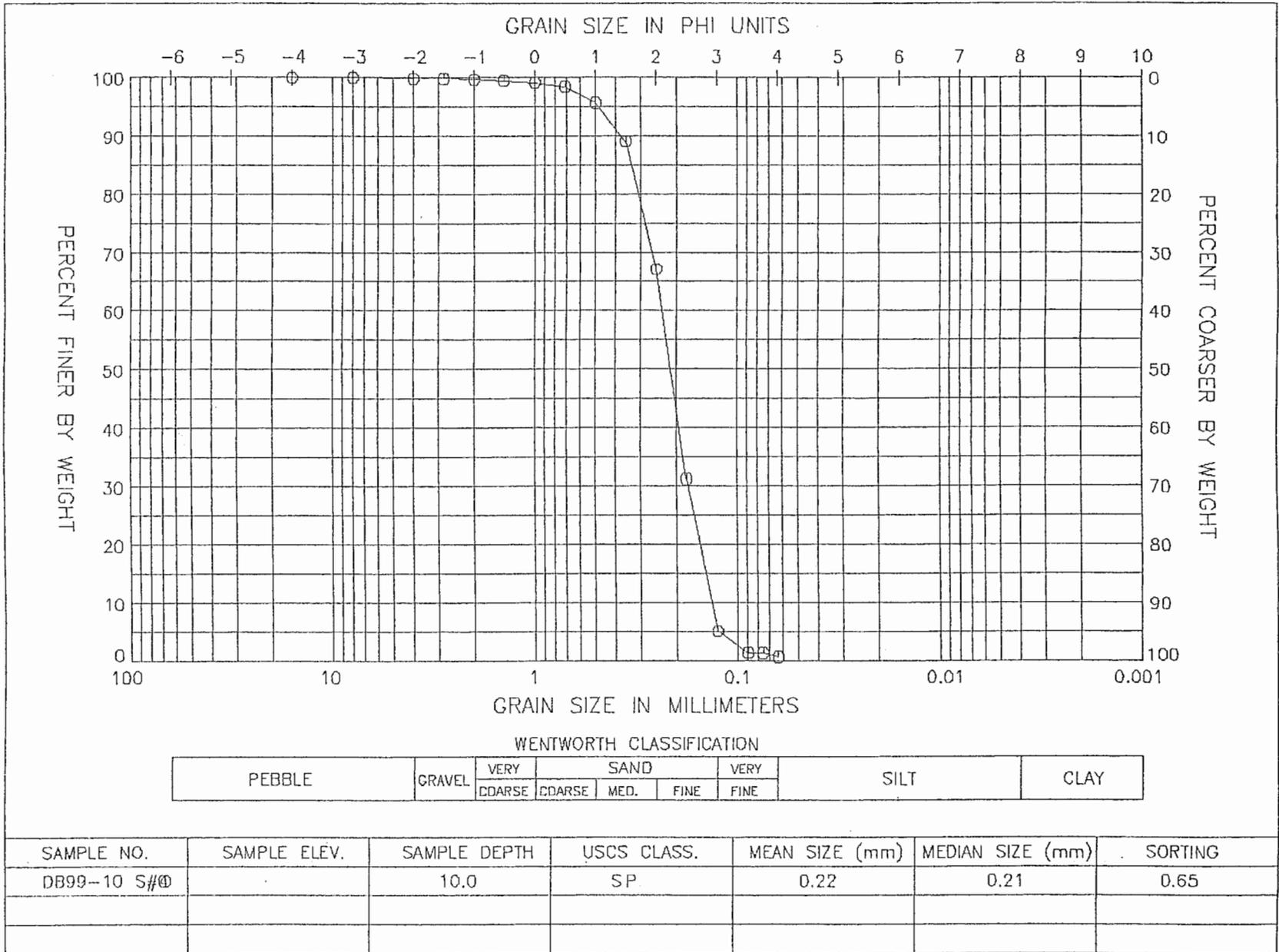
GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999



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