

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

SAMPLE NO.: DB99-22#1
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 0.60
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 102.64
SAMPLE WEIGHT AFTER WASH (GRAMS): 101.16

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	0.01	0.01	99.99
10	-1.00	2.000	0.11	0.11	99.89
14	-0.50	1.400	0.36	0.35	99.65
18	0.00	1.000	0.67	0.65	99.35
25	0.50	0.710	1.85	1.80	98.20
35	1.00	0.500	6.15	5.99	94.01
45	1.50	0.355	15.56	15.16	84.84
60	2.00	0.250	41.56	40.49	59.51
80	2.50	0.180	75.34	73.40	26.60
120	3.00	0.125	96.40	93.92	6.08
170	3.50	0.090	101.05	98.45	1.55
200	3.75	0.075	101.13	98.53	1.47
230	4.00	0.063	101.87	99.25	0.75
PAN			102.62	99.98	0.02

PHI(5): 0.88 PHI(16): 1.52 PHI(25): 1.69
PHI(50): 2.14 PHI(75): 2.54 PHI(84): 2.76
PHI(95): 3.12

SIEVE LOSS(g): 0.02 SILT/CLAY: 1.47%
SKEWNESS: -0.232 KURTOSIS: 1.086

GRAPHIC METHOD

MEAN (PHI): 2.08 SORTING: 0.62
MEAN (mm) : 0.24 MEDIAN (mm): 0.23
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.09 SORTING: 0.67
MEAN (mm) : 0.24

DATA FILE NAME: DB99-22#1.TAB

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

SAMPLE NO.: DB99-22#2
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 2.4
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 107.08
SAMPLE WEIGHT AFTER WASH (GRAMS): 106.16

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	1.15	1.07	98.93
5	-2.00	4.000	3.47	3.24	96.76
7	-1.50	2.800	4.16	3.88	96.12
10	-1.00	2.000	5.81	5.43	94.57
14	-0.50	1.400	8.25	7.70	92.30
18	0.00	1.000	11.43	10.67	89.33
25	0.50	0.710	17.96	16.77	83.23
35	1.00	0.500	29.01	27.09	72.91
45	1.50	0.355	43.35	40.48	59.52
60	2.00	0.250	68.96	64.40	35.60
80	2.50	0.180	93.96	87.75	12.25
120	3.00	0.125	104.84	97.91	2.09
170	3.50	0.090	106.10	99.08	0.92
200	3.75	0.075	106.12	99.10	0.90
230	4.00	0.063	106.59	99.54	0.46
PAN			107.07	99.99	0.01

PHI (5): -1.14 PHI (16): 0.44 PHI (25): 0.90
PHI (50): 1.70 PHI (75): 2.23 PHI (84): 2.42
PHI (95): 2.86

SIEVE LOSS (g): 0.01 SILT/CLAY: 0.90%
SKEWNESS: -0.847 KURTOSIS: 1.233

GRAPHIC METHOD

MEAN (PHI): 1.25 SORTING: 0.99
MEAN (mm): 0.42 MEDIAN (mm): 0.31
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.40 SORTING: 1.24
MEAN (mm): 0.38

DATA FILE NAME: DB99-22#2.TAB

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

SAMPLE NO.: DB99-22#3
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 6.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 104.83
SAMPLE WEIGHT AFTER WASH (GRAMS): 100.27

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	0.07	0.07	99.93
10	-1.00	2.000	0.29	0.28	99.72
14	-0.50	1.400	0.59	0.56	99.44
18	0.00	1.000	1.11	1.06	98.94
25	0.50	0.710	2.10	2.00	98.00
35	1.00	0.500	5.20	4.96	95.04
45	1.50	0.355	12.58	12.00	88.00
60	2.00	0.250	39.96	38.12	61.88
80	2.50	0.180	77.84	74.25	25.75
120	3.00	0.125	98.08	93.56	6.44
170	3.50	0.090	100.20	95.58	4.42
200	3.75	0.075	100.24	95.62	4.38
230	4.00	0.063	102.55	97.83	2.17
PAN			104.83	100.00	0.00

PHI(5): 1.00 PHI(16): 1.58 PHI(25): 1.75
PHI(50): 2.16 PHI(75): 2.52 PHI(84): 2.75
PHI(95): 3.36

SIEVE LOSS(g): 0.00 SILT/CLAY: 4.38%
SKEWNESS: 0.025 KURTOSIS: 1.252

GRAPHIC METHOD

MEAN (PHI): 2.17 SORTING: 0.59
MEAN (mm) : 0.22 MEDIAN (mm): 0.22
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.10 SORTING: 0.67
MEAN (mm) : 0.23

DATA FILE NAME: DB99-22#3.TAB

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

SAMPLE NO.: DB99-22#4
 SAMPLE ELEV. (FT. NGVD):
 SAMPLE DEPTH (FT.): 11.0
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 95.83
 SAMPLE WEIGHT AFTER WASH (GRAMS): 93.83

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	0.14	0.15	99.85
7	-1.50	2.800	0.19	0.20	99.80
10	-1.00	2.000	0.42	0.44	99.56
14	-0.50	1.400	0.76	0.79	99.21
18	0.00	1.000	1.12	1.17	98.83
25	0.50	0.710	1.93	2.01	97.99
35	1.00	0.500	4.14	4.32	95.68
45	1.50	0.355	10.16	10.60	89.40
60	2.00	0.250	30.71	32.05	67.95
80	2.50	0.180	62.11	64.81	35.19
120	3.00	0.125	88.30	92.14	7.86
170	3.50	0.090	93.71	97.79	2.21
200	3.75	0.075	93.77	97.85	2.15
230	4.00	0.063	94.81	98.94	1.06
PAN			95.82	99.99	0.01

PHI(5): 1.05 PHI(16): 1.63 PHI(25): 1.84
 PHI(50): 2.27 PHI(75): 2.69 PHI(84): 2.85
 PHI(95): 3.25

SIEVE LOSS(g): 0.01 SILT/CLAY: 2.15%
 SKEWNESS: -0.196 KURTOSIS: 1.059

GRAPHIC METHOD

MEAN (PHI): 2.21 SORTING: 0.61
 MEAN (mm) : 0.22 MEDIAN (mm): 0.21
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.20 SORTING: 0.70
 MEAN (mm) : 0.22

DATA FILE NAME: DB99-22#4.TAB

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

SAMPLE NO.: DB99-22#5
 SAMPLE ELEV. (FT. NGVD):
 SAMPLE DEPTH (FT.): 16.0
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP-SM

DRY SAMPLE WEIGHT (GRAMS): 105.84
 SAMPLE WEIGHT AFTER WASH (GRAMS): 97.27

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	0.16	0.15	99.85
7	-1.50	2.800	0.28	0.26	99.74
10	-1.00	2.000	0.59	0.56	99.44
14	-0.50	1.400	0.86	0.81	99.19
18	0.00	1.000	1.26	1.19	98.81
25	0.50	0.710	2.22	2.10	97.90
35	1.00	0.500	4.71	4.45	95.55
45	1.50	0.355	10.49	9.91	90.09
60	2.00	0.250	29.90	28.25	71.75
80	2.50	0.180	62.32	58.88	41.12
120	3.00	0.125	92.16	87.07	12.93
170	3.50	0.090	97.07	91.71	8.29
200	3.75	0.075	97.18	91.82	8.18
230	4.00	0.063	101.51	95.90	4.10
PAN			105.82	99.98	0.02

PHI (5): 1.05 PHI (16): 1.67 PHI (25): 1.91
 PHI (50): 2.36 PHI (75): 2.79 PHI (84): 2.95
 PHI (95): 3.94

SIEVE LOSS(g): 0.02 SILT/CLAY: 8.18%
 SKEWNESS: 0.223 KURTOSIS: 1.356

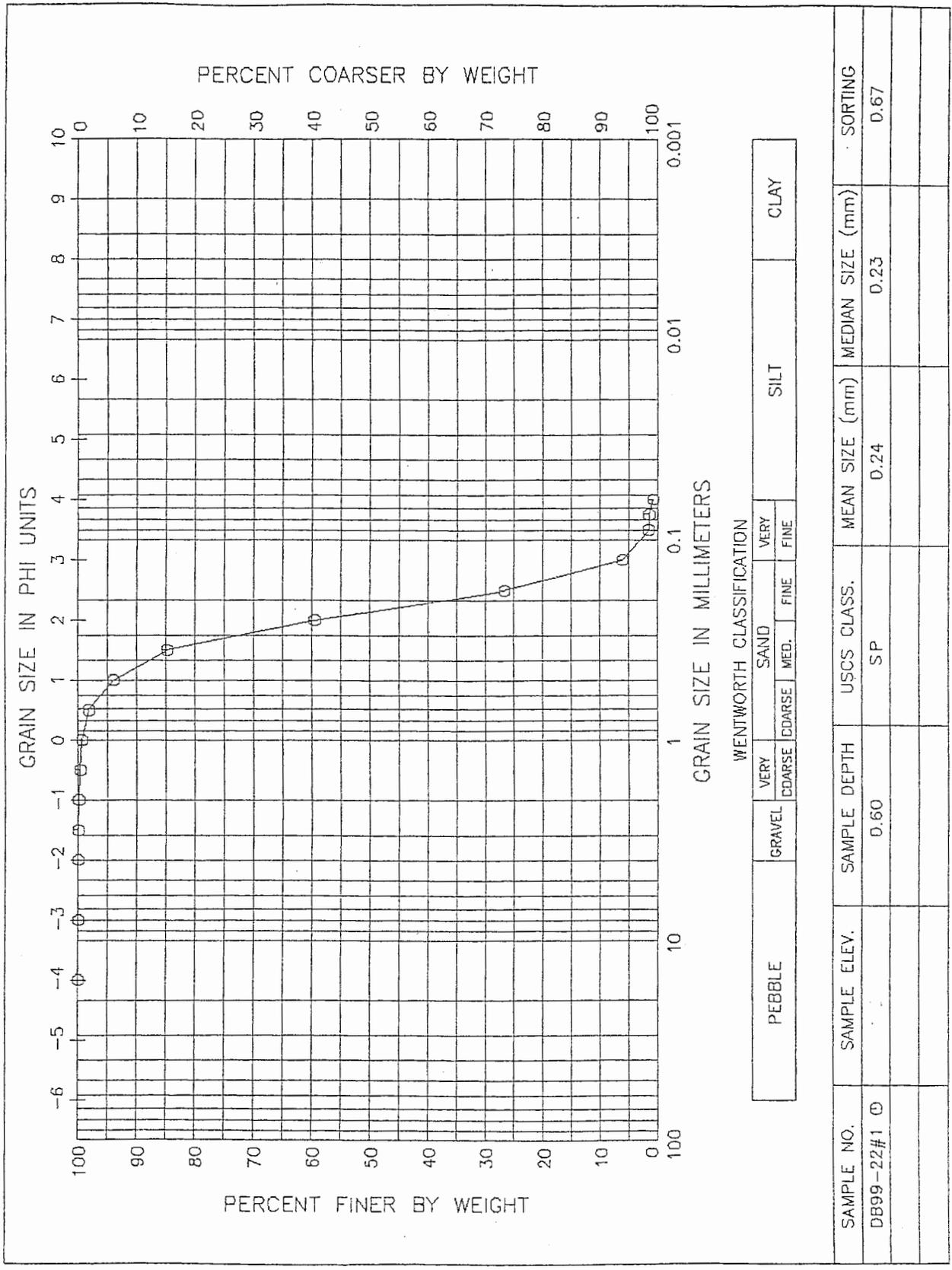
GRAPHIC METHOD

MEAN (PHI): 2.39 SORTING: 0.64
 MEAN (mm): 0.19 MEDIAN (mm): 0.20
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

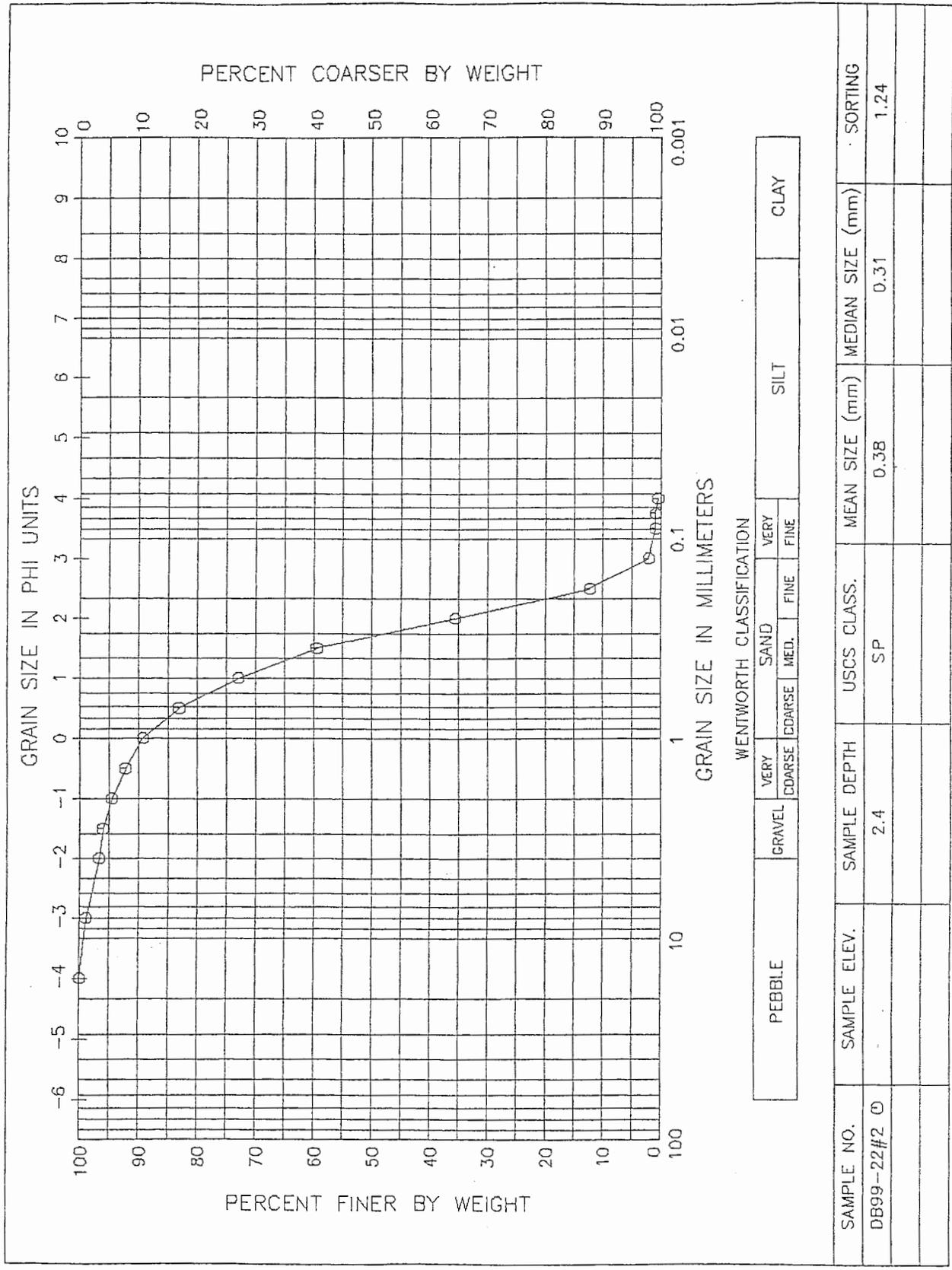
MOMENT METHOD

MEAN (PHI): 2.27 SORTING: 0.76
 MEAN (mm): 0.21

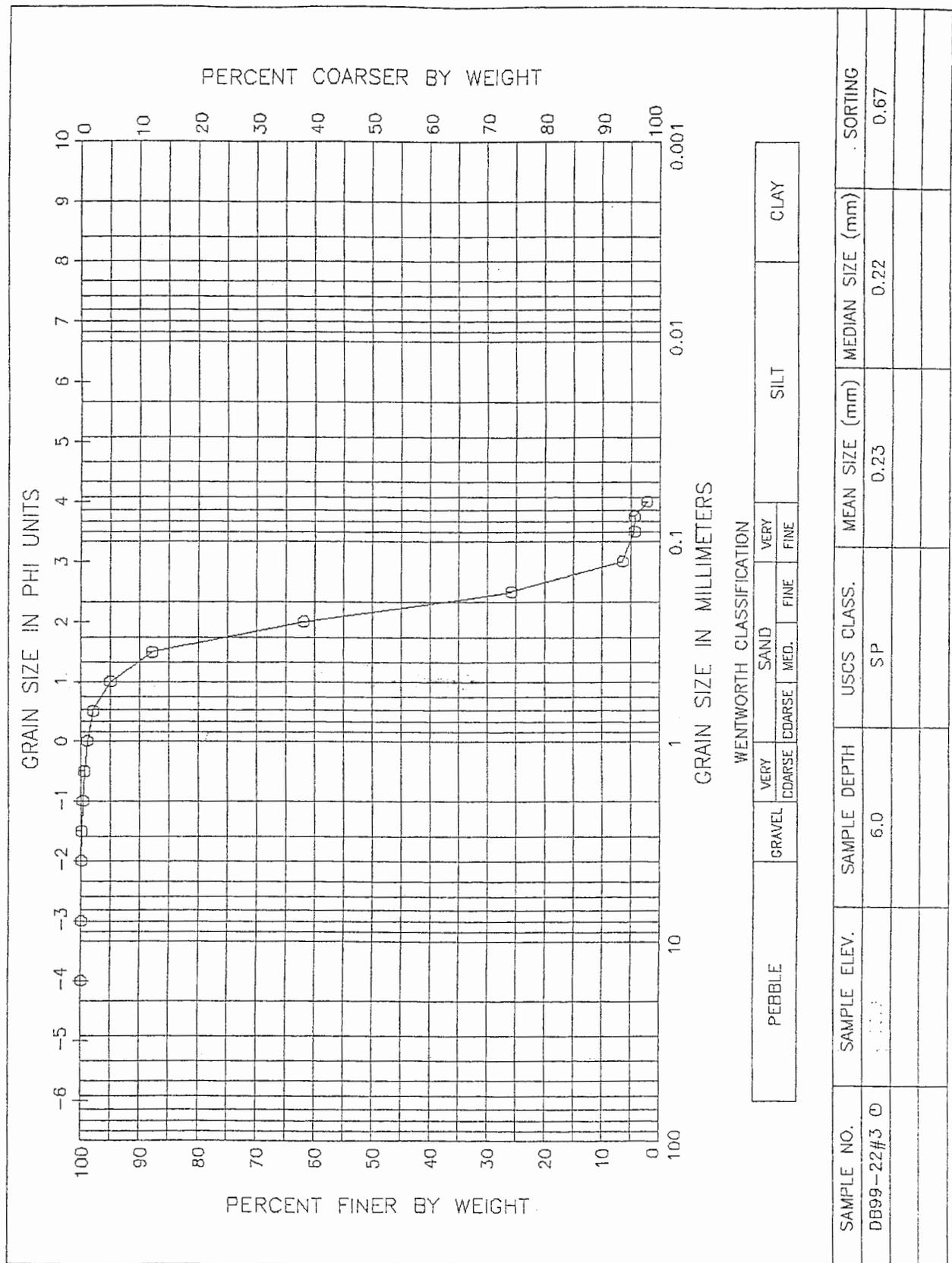
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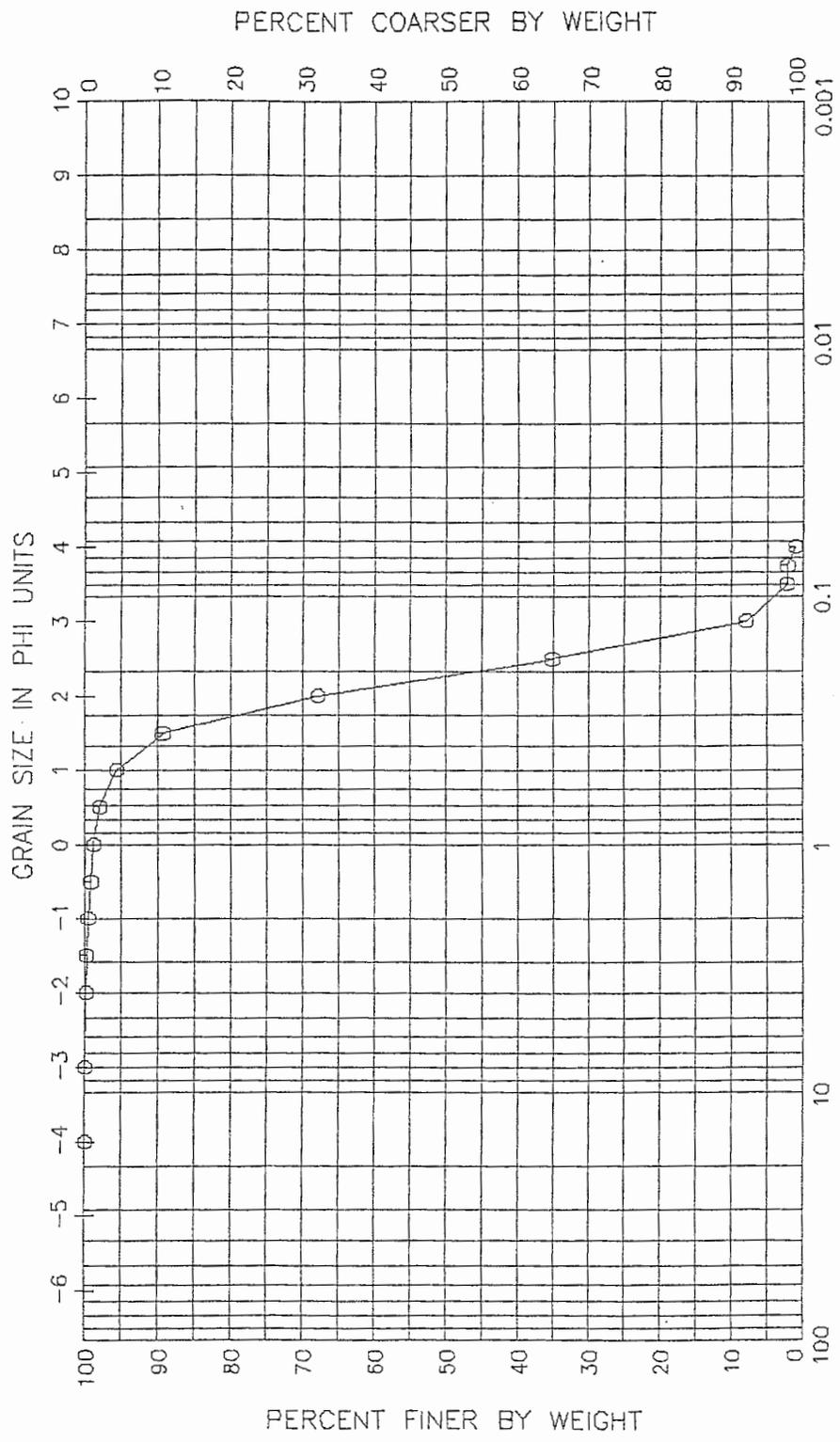
GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999



GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999



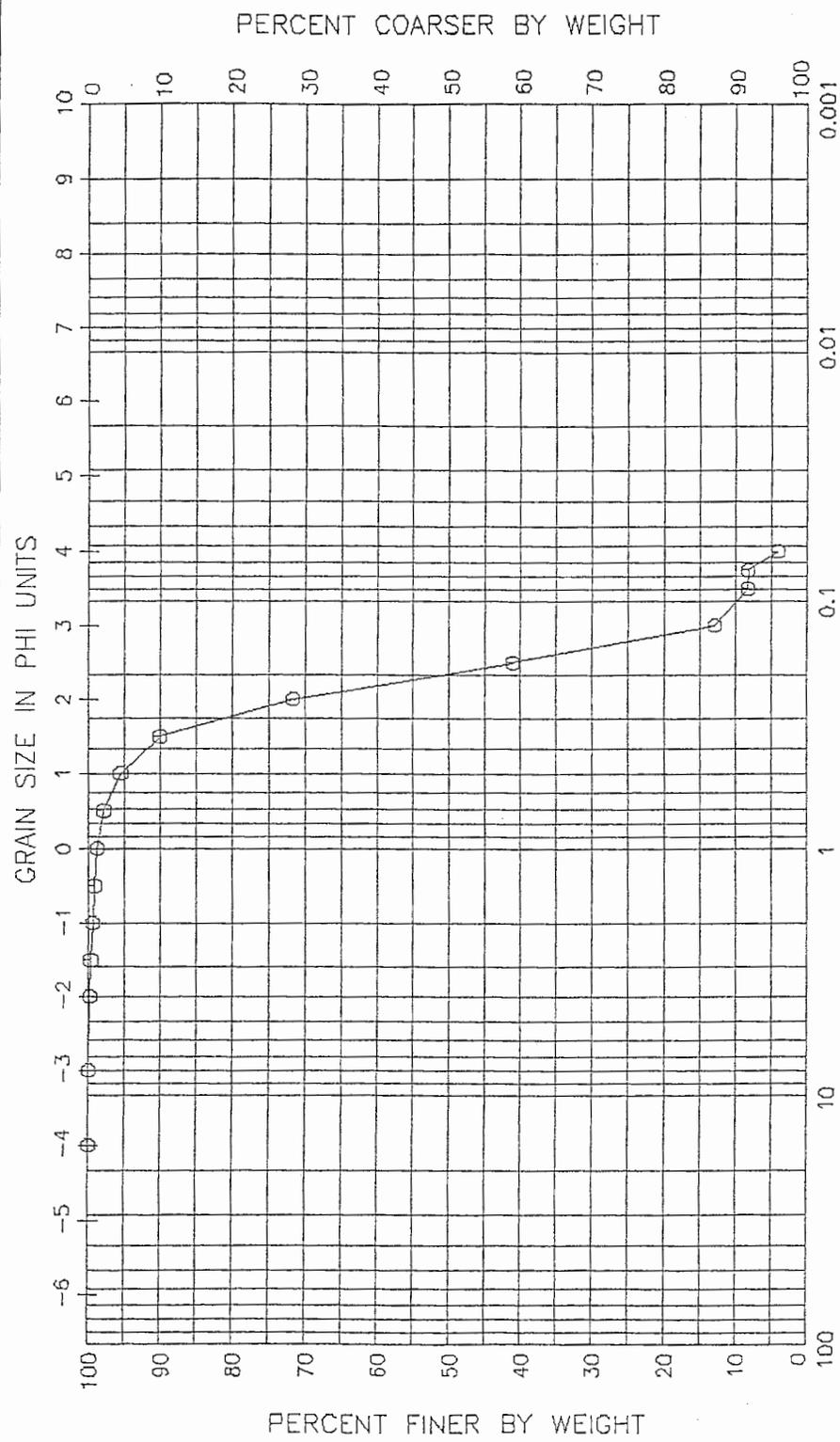
GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999



WENTWORTH CLASSIFICATION						
PEBBLE	GRAVEL	SAND		SILT		CLAY
		VERY COARSE	MED. FINE	VERY FINE	CLAY	

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
DB99-22#4		11.0	SP	0.22	0.21	0.70

GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999



WENTWORTH CLASSIFICATION						
PEBBLE	GRAVEL	SAND		SILT		CLAY
		VERY COARSE	MED. FINE	VERY FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
DB99-22#5 0	16.0	16.0	SP-SM	0.21	0.20	0.76

GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999