

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

SAMPLE NO.: DB99-7 S#1
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 1.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 137.75
SAMPLE WEIGHT AFTER WASH (GRAMS): 133.98

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	1.53	1.11	98.89
7	-1.50	2.800	2.43	1.76	98.24
10	-1.00	2.000	4.29	3.11	96.89
14	-0.50	1.400	8.21	5.96	94.04
18	0.00	1.000	12.78	9.28	90.72
25	0.50	0.710	20.53	14.90	85.10
35	1.00	0.500	36.01	26.14	73.86
45	1.50	0.355	56.58	41.07	58.93
60	2.00	0.250	86.17	62.56	37.44
80	2.50	0.180	115.32	83.72	16.28
120	3.00	0.125	131.99	95.82	4.18
170	3.50	0.090	133.90	97.21	2.79
200	3.75	0.075	133.95	97.24	2.76
230	4.00	0.063	135.85	98.62	1.38
PAN			137.74	99.99	0.01

PHI(5): -0.67 PHI(16): 0.55 PHI(25): 0.95
PHI(50): 1.71 PHI(75): 2.29 PHI(84): 2.51
PHI(95): 2.97

SIEVE LOSS(g): 0.01 SILT/CLAY: 2.76%
SKEWNESS: -0.570 KURTOSIS: 1.108

GRAPHIC METHOD

MEAN (PHI): 1.41 SORTING: 0.98
MEAN (mm): 0.38 MEDIAN (mm): 0.31
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.50 SORTING: 1.10
MEAN (mm): 0.35

DATA FILE NAME: DB99-7#1.TAB

GRADATION ANALYSIS REPORT
DELRAY BEACH VIBRACORES 1999
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SAMPLE NO.: DB99-7 S#2
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 3.6
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 175.45
SAMPLE WEIGHT AFTER WASH (GRAMS): 172.88

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	0.07	0.04	99.96
7	-1.50	2.800	0.32	0.18	99.82
10	-1.00	2.000	0.74	0.42	99.58
14	-0.50	1.400	1.54	0.88	99.12
18	0.00	1.000	2.88	1.64	98.36
25	0.50	0.710	5.75	3.28	96.72
35	1.00	0.500	14.96	8.53	91.47
45	1.50	0.355	35.17	20.05	79.95
60	2.00	0.250	79.01	45.03	54.97
80	2.50	0.180	138.12	78.72	21.28
120	3.00	0.125	168.59	96.09	3.91
170	3.50	0.090	172.65	98.40	1.60
200	3.75	0.075	172.82	98.50	1.50
230	4.00	0.063	174.17	99.27	0.73
PAN			175.45	100.00	0.00

PHI(5): 0.66 PHI(16): 1.32 PHI(25): 1.60
PHI(50): 2.07 PHI(75): 2.44 PHI(84): 2.65
PHI(95): 2.97

SIEVE LOSS(g): 0.00 SILT/CLAY: 1.50%
SKEWNESS: -0.388 KURTOSIS: 1.117

GRAPHIC METHOD

MEAN (PHI): 1.94 SORTING: 0.66
MEAN (mm) : 0.26 MEDIAN (mm): 0.24
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.97 SORTING: 0.73
MEAN (mm) : 0.26

DATA FILE NAME: DB99-7#2.TAB

GRADATION ANALYSIS REPORT
DELRAY BEACH VIBRACORES 1999
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SAMPLE NO.: DB99-7 S#3
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 7.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 215.01
SAMPLE WEIGHT AFTER WASH (GRAMS): 212.96

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	0.34	0.16	99.84
7	-1.50	2.800	0.78	0.36	99.64
10	-1.00	2.000	1.81	0.84	99.16
14	-0.50	1.400	3.74	1.74	98.26
18	0.00	1.000	6.51	3.03	96.97
25	0.50	0.710	12.05	5.60	94.40
35	1.00	0.500	27.04	12.58	87.42
45	1.50	0.355	53.16	24.72	75.28
60	2.00	0.250	111.69	51.95	48.05
80	2.50	0.180	179.18	83.34	16.66
120	3.00	0.125	208.46	96.95	3.05
170	3.50	0.090	212.77	98.96	1.04
200	3.75	0.075	212.85	99.00	1.00
230	4.00	0.063	213.93	99.50	0.50
PAN			214.98	99.99	0.01

PHI(5): 0.38 PHI(16): 1.14 PHI(25): 1.51
PHI(50): 1.96 PHI(75): 2.37 PHI(84): 2.52
PHI(95): 2.93

SIEVE LOSS(g): 0.03 SILT/CLAY: 1.00%
SKEWNESS: -0.446 KURTOSIS: 1.210

GRAPHIC METHOD

MEAN (PHI): 1.79 SORTING: 0.69
MEAN (mm): 0.29 MEDIAN (mm): 0.26
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.84 SORTING: 0.80
MEAN (mm): 0.28

DATA FILE NAME: DB99-7#3.TAB

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

SAMPLE NO.: DB99-7 S#4
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 9.8
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 255.52
SAMPLE WEIGHT AFTER WASH (GRAMS): 252.30

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	0.03	0.01	99.99
7	-1.50	2.800	0.03	0.01	99.99
10	-1.00	2.000	0.20	0.08	99.92
14	-0.50	1.400	0.40	0.16	99.84
18	0.00	1.000	1.11	0.43	99.57
25	0.50	0.710	2.69	1.05	98.95
35	1.00	0.500	9.77	3.82	96.18
45	1.50	0.355	31.30	12.25	87.75
60	2.00	0.250	106.48	41.67	58.33
80	2.50	0.180	208.10	81.44	18.56
120	3.00	0.125	248.49	97.25	2.75
170	3.50	0.090	252.12	98.67	1.33
200	3.75	0.075	252.17	98.69	1.31
230	4.00	0.063	253.82	99.33	0.67
PAN			255.49	99.99	0.01

PHI(5): 1.07	PHI(16): 1.56	PHI(25): 1.72
PHI(50): 2.10	PHI(75): 2.42	PHI(84): 2.58
PHI(95): 2.93		

SIEVE LOSS(g): 0.03	SILT/CLAY: 1.31%
SKEWNESS: -0.207	KURTOSIS: 1.085

GRAPHIC METHOD

MEAN (PHI): 2.05	SORTING: 0.51
MEAN (mm) : 0.24	MEDIAN (mm): 0.23
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD	

MOMENT METHOD

MEAN (PHI): 2.06	SORTING: 0.56
MEAN (mm) : 0.24	

DATA FILE NAME: DB99-7#4.TAB

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

SAMPLE NO.: DB99-7 S#5
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 13.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 157.91
SAMPLE WEIGHT AFTER WASH (GRAMS): 156.20

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	0.32	0.20	99.80
7	-1.50	2.800	0.36	0.23	99.77
10	-1.00	2.000	0.78	0.49	99.51
14	-0.50	1.400	1.06	0.67	99.33
18	0.00	1.000	1.46	0.92	99.08
25	0.50	0.710	2.69	1.70	98.30
35	1.00	0.500	6.46	4.09	95.91
45	1.50	0.355	16.38	10.37	89.63
60	2.00	0.250	47.66	30.18	69.82
80	2.50	0.180	113.71	72.01	27.99
120	3.00	0.125	150.61	95.38	4.62
170	3.50	0.090	156.01	98.80	1.20
200	3.75	0.075	156.15	98.89	1.11
230	4.00	0.063	157.02	99.43	0.57
PAN			157.87	99.97	0.03

PHI(5): 1.07 PHI(16): 1.64 PHI(25): 1.87
PHI(50): 2.24 PHI(75): 2.56 PHI(84): 2.76
PHI(95): 2.99

SIEVE LOSS(g): 0.04 SILT/CLAY: 1.11%
SKEWNESS: -0.367 KURTOSIS: 1.132

GRAPHIC METHOD

MEAN (PHI): 2.14 SORTING: 0.56
MEAN (mm): 0.23 MEDIAN (mm): 0.21
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.17 SORTING: 0.64
MEAN (mm): 0.22

DATA FILE NAME: DB99-7#5.TAB

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

SAMPLE NO.: DB99-7 S#6
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 16.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 182.95
SAMPLE WEIGHT AFTER WASH (GRAMS): 181.14

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	0.48	0.26	99.74
7	-1.50	2.800	0.50	0.27	99.73
10	-1.00	2.000	3.50	1.91	98.09
14	-0.50	1.400	3.51	1.92	98.08
18	0.00	1.000	6.34	3.47	96.53
25	0.50	0.710	11.40	6.23	93.77
35	1.00	0.500	23.39	12.78	87.22
45	1.50	0.355	43.20	23.61	76.39
60	2.00	0.250	83.40	45.59	54.41
80	2.50	0.180	142.14	77.69	22.31
120	3.00	0.125	181.02	98.95	1.05
170	3.50	0.090	181.09	98.98	1.02
200	3.75	0.075	181.10	98.99	1.01
230	4.00	0.063	182.02	99.49	0.51
PAN			182.94	99.99	0.01

PHI(5): 0.28	PHI(16): 1.15	PHI(25): 1.53
PHI(50): 2.07	PHI(75): 2.46	PHI(84): 2.65
PHI(95): 2.91		

SIEVE LOSS(g): 0.01	SILT/CLAY: 1.01%
SKEWNESS: -0.635	KURTOSIS: 1.163

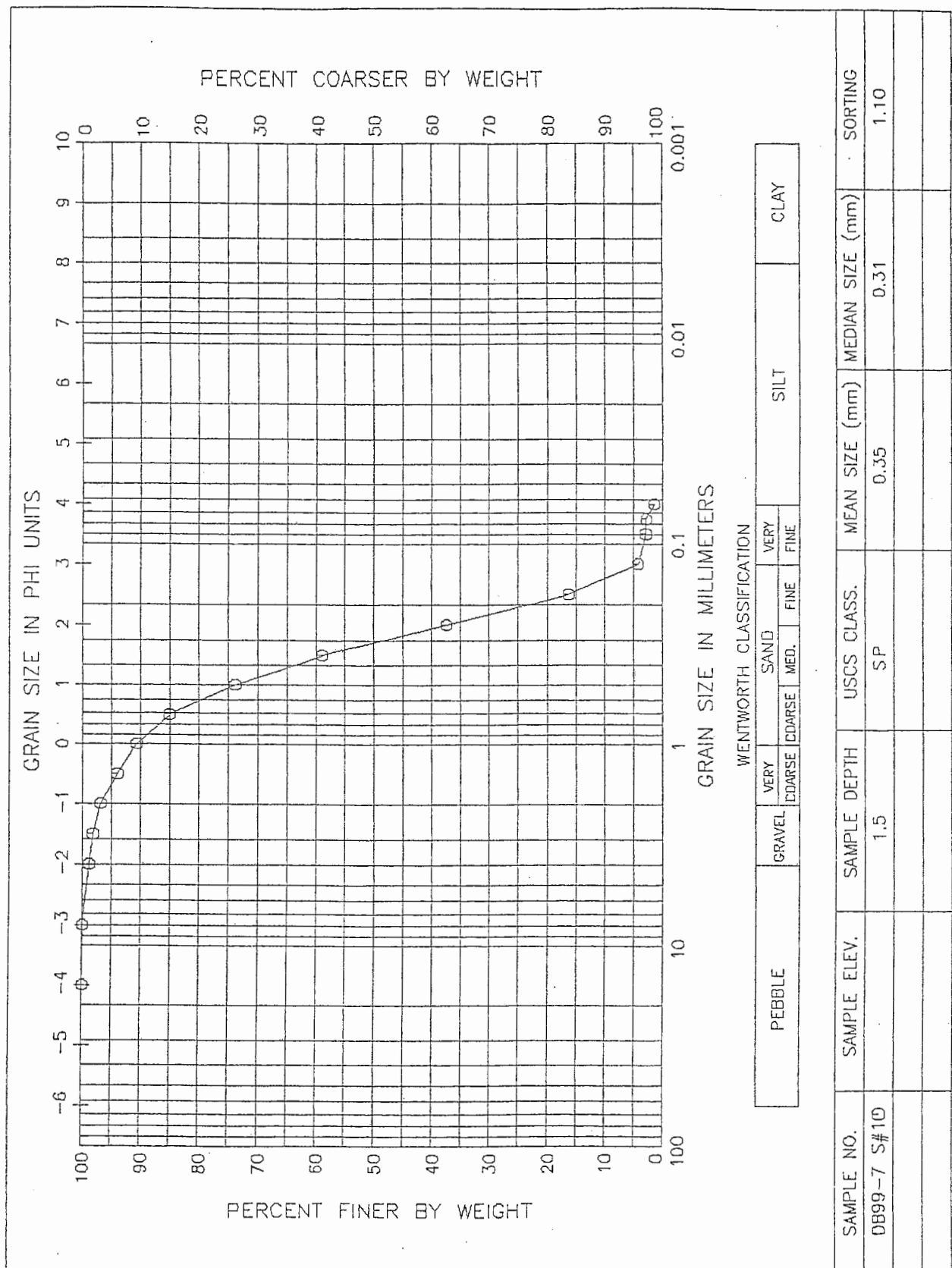
GRAPHIC METHOD

MEAN (PHI): 1.81	SORTING: 0.75
MEAN (mm): 0.29	MEDIAN (mm): 0.24
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD	

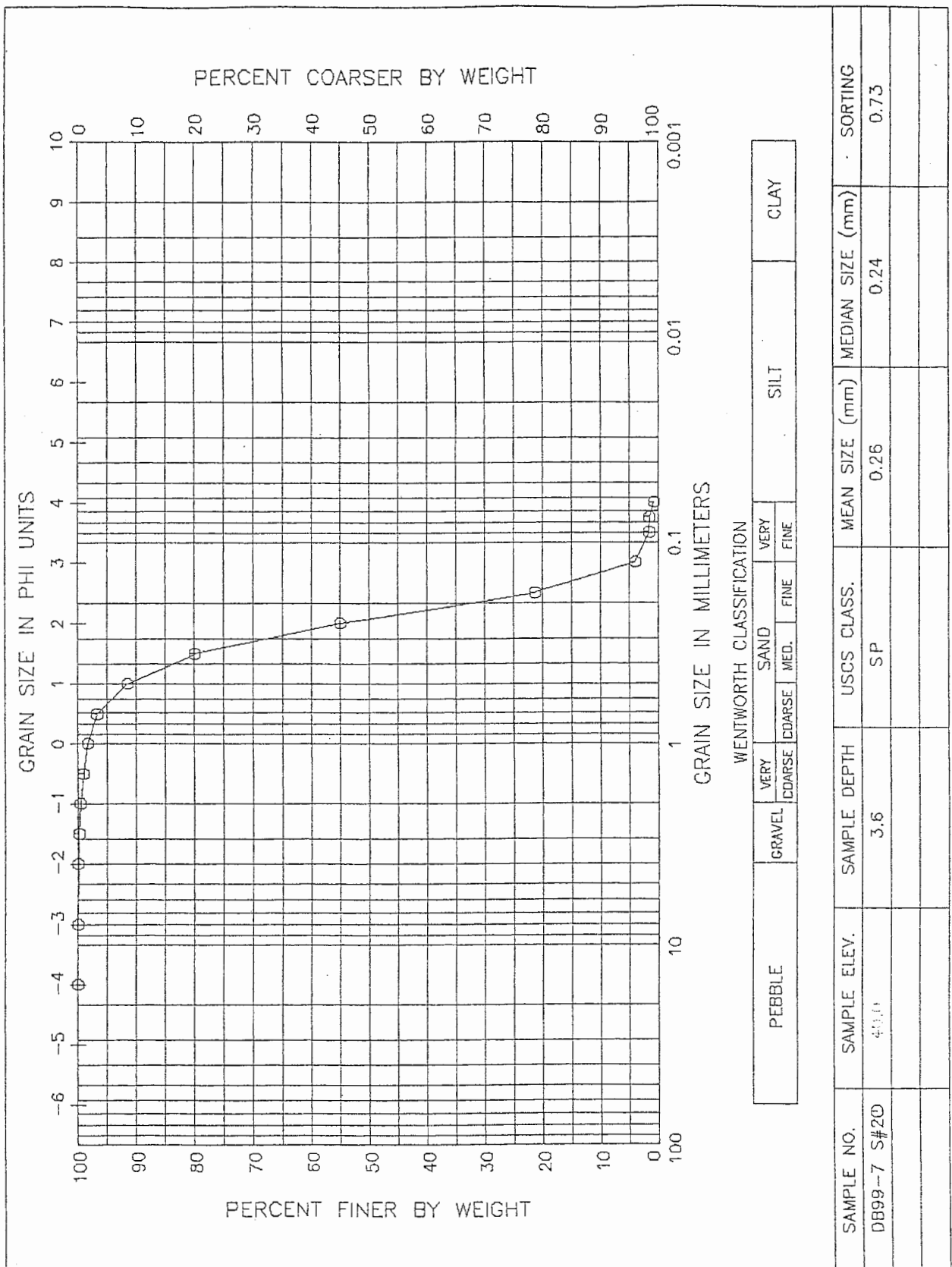
MOMENT METHOD

MEAN (PHI): 1.88	SORTING: 0.85
MEAN (mm): 0.27	

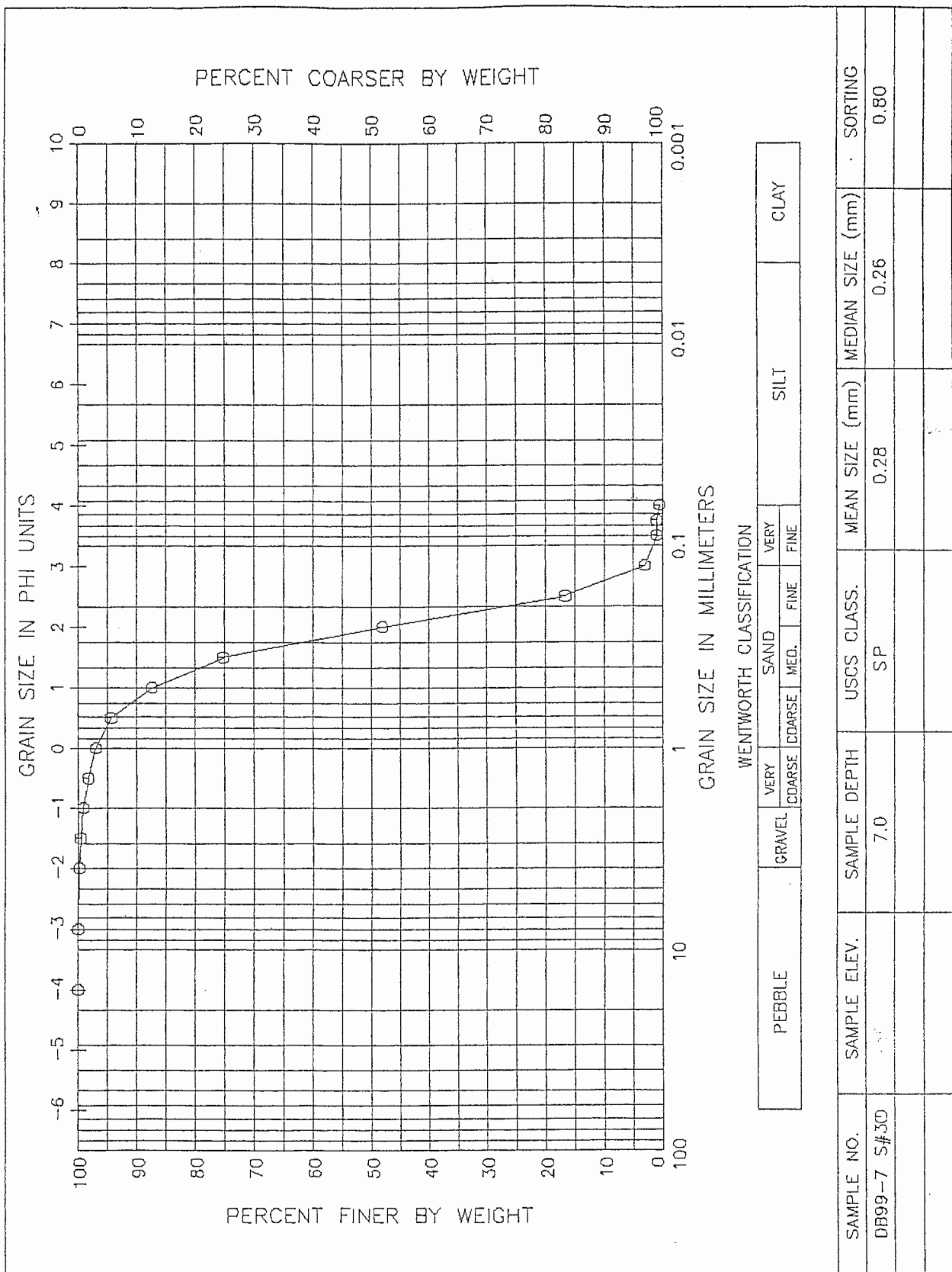
DATA FILE NAME: DB99-7#6.TAB



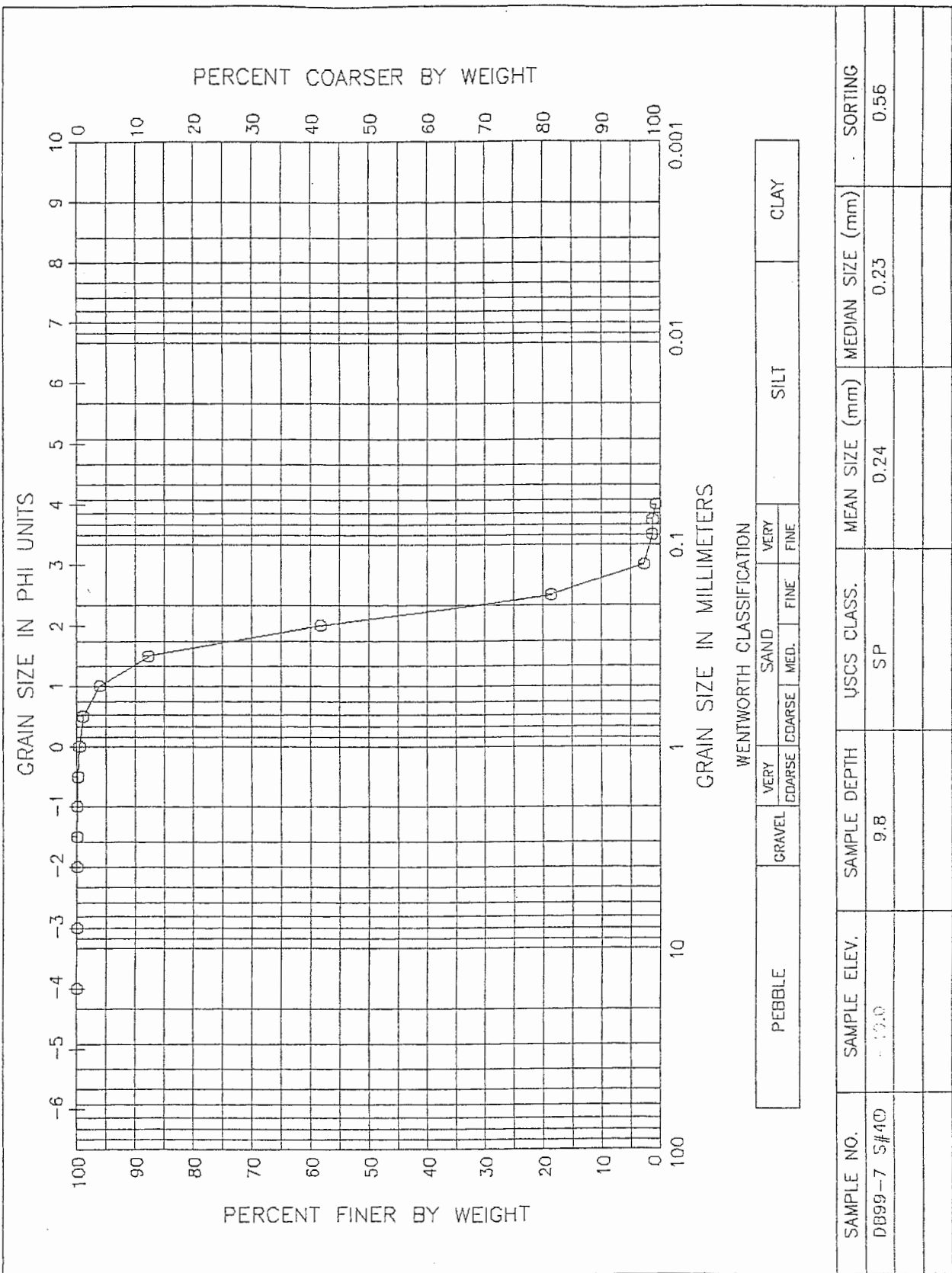
GRAIN SIZE DISTRIBUTION CURVE
DELRAY BEACH VIBRACORES 1999

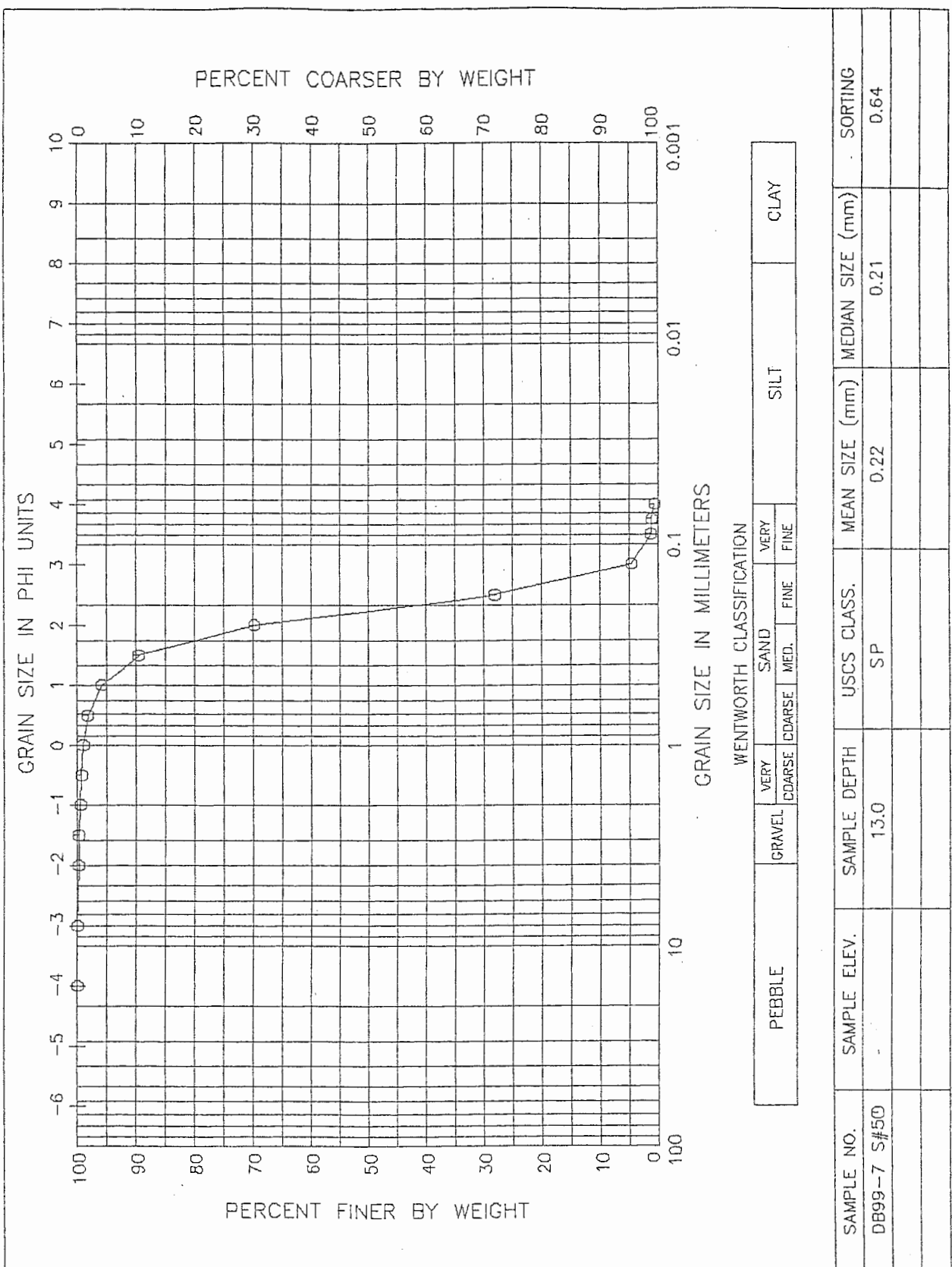


GRAIN SIZE DISTRIBUTION CURVE
DELRAY BEACH VIBRACORES 1999

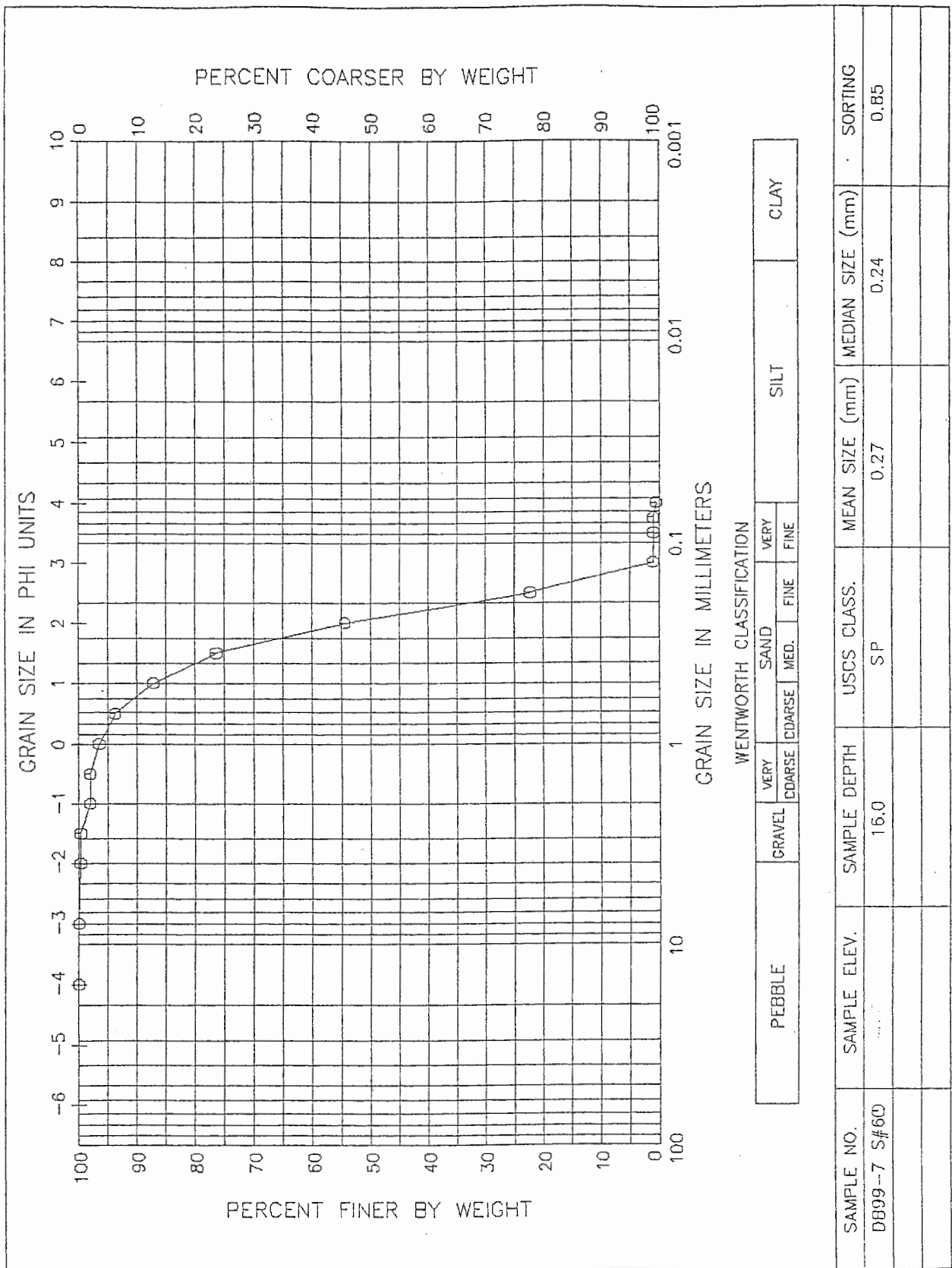


GRAIN SIZE DISTRIBUTION CURVE
DELRAY BEACH VIBRACORES 1999





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