

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

SAMPLE NO.: DB99-27#1  
SAMPLE ELEV. (FT. NGVD):  
SAMPLE DEPTH (FT.): 4.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 102.53  
SAMPLE WEIGHT AFTER WASH (GRAMS): 100.76

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	0.19	0.19	99.81
10	-1.00	2.000	0.41	0.40	99.60
14	-0.50	1.400	0.69	0.67	99.33
18	0.00	1.000	0.99	0.97	99.03
25	0.50	0.710	1.48	1.44	98.56
35	1.00	0.500	2.28	2.22	97.78
45	1.50	0.355	3.48	3.39	96.61
60	2.00	0.250	8.78	8.56	91.44
80	2.50	0.180	30.71	29.95	70.05
120	3.00	0.125	80.58	78.59	21.41
170	3.50	0.090	100.36	97.88	2.12
200	3.75	0.075	100.62	98.14	1.86
230	4.00	0.063	101.57	99.07	0.93
PAN			102.52	99.99	0.01

PHI(5): 1.66 PHI(16): 2.17 PHI(25): 2.38  
PHI(50): 2.71 PHI(75): 2.96 PHI(84): 3.14  
PHI(95): 3.43

SIEVE LOSS(g): 0.01 SILT/CLAY: 1.86%  
SKEWNESS: -0.343 KURTOSIS: 1.253

GRAPHIC METHOD

MEAN (PHI): 2.62 SORTING: 0.48  
MEAN (mm): 0.16 MEDIAN (mm): 0.15  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.62 SORTING: 0.61  
MEAN (mm): 0.16

DATA FILE NAME: DB99-27#1.TAB

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SAMPLE NO.: DB99-27#2  
SAMPLE ELEV. (FT. NGVD):  
SAMPLE DEPTH (FT.): 9.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 92.55  
SAMPLE WEIGHT AFTER WASH (GRAMS): 90.06

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	0.44	0.48	99.52
5	-2.00	4.000	0.83	0.90	99.10
7	-1.50	2.800	1.06	1.15	98.85
10	-1.00	2.000	1.24	1.34	98.66
14	-0.50	1.400	1.44	1.56	98.44
18	0.00	1.000	1.71	1.85	98.15
25	0.50	0.710	2.16	2.33	97.67
35	1.00	0.500	2.81	3.04	96.96
45	1.50	0.355	3.89	4.20	95.80
60	2.00	0.250	8.08	8.73	91.27
80	2.50	0.180	26.05	28.15	71.85
120	3.00	0.125	69.83	75.45	24.55
170	3.50	0.090	89.58	96.79	3.21
200	3.75	0.075	89.89	97.13	2.87
230	4.00	0.063	91.25	98.59	1.41
PAN			92.55	100.00	0.00

PHI(5): 1.59 PHI(16): 2.19 PHI(25): 2.42  
PHI(50): 2.73 PHI(75): 3.00 PHI(84): 3.20  
PHI(95): 3.46

SIEVE LOSS(g): 0.00 SILT/CLAY: 2.87%  
SKEWNESS: -0.411 KURTOSIS: 1.330

GRAPHIC METHOD

MEAN (PHI): 2.63 SORTING: 0.51  
MEAN (mm): 0.16 MEDIAN (mm): 0.15  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.60 SORTING: 0.82  
MEAN (mm): 0.16

DATA FILE NAME: DB99-27#2.TAB

GRADATION ANALYSIS REPORT  
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SAMPLE NO.: DB99-27#3  
SAMPLE ELEV. (FT. NGVD):  
SAMPLE DEPTH (FT.): 15.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 101.22  
SAMPLE WEIGHT AFTER WASH (GRAMS): 98.51

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	0.15	0.15	99.85
10	-1.00	2.000	0.39	0.39	99.61
14	-0.50	1.400	0.83	0.82	99.18
18	0.00	1.000	0.88	0.87	99.13
25	0.50	0.710	2.28	2.25	97.75
35	1.00	0.500	3.86	3.81	96.19
45	1.50	0.355	6.41	6.33	93.67
60	2.00	0.250	14.15	13.98	86.02
80	2.50	0.180	34.12	33.71	66.29
120	3.00	0.125	76.85	75.92	24.08
170	3.50	0.090	97.44	96.27	3.73
200	3.75	0.075	97.96	96.78	3.22
230	4.00	0.063	99.59	98.38	1.62
PAN			101.20	99.98	0.02

PHI(5): 1.24 PHI(16): 2.05 PHI(25): 2.28  
PHI(50): 2.69 PHI(75): 2.99 PHI(84): 3.20  
PHI(95): 3.47

SIEVE LOSS(g): 0.02 SILT/CLAY: 3.22%  
SKEWNESS: -0.594 KURTOSIS: 1.290

GRAPHIC METHOD

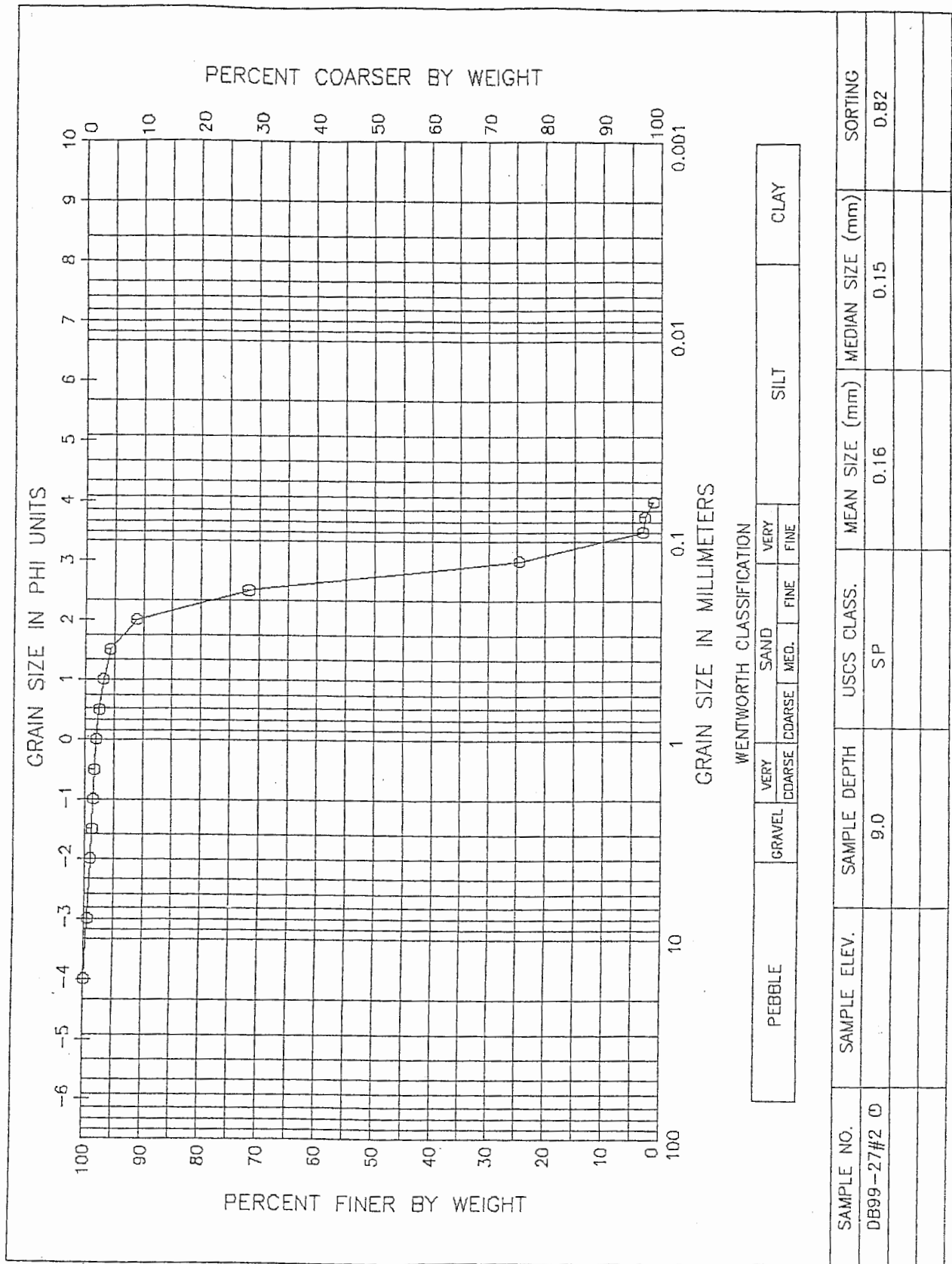
MEAN (PHI): 2.53 SORTING: 0.57  
MEAN (mm) : 0.17 MEDIAN (mm): 0.15  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

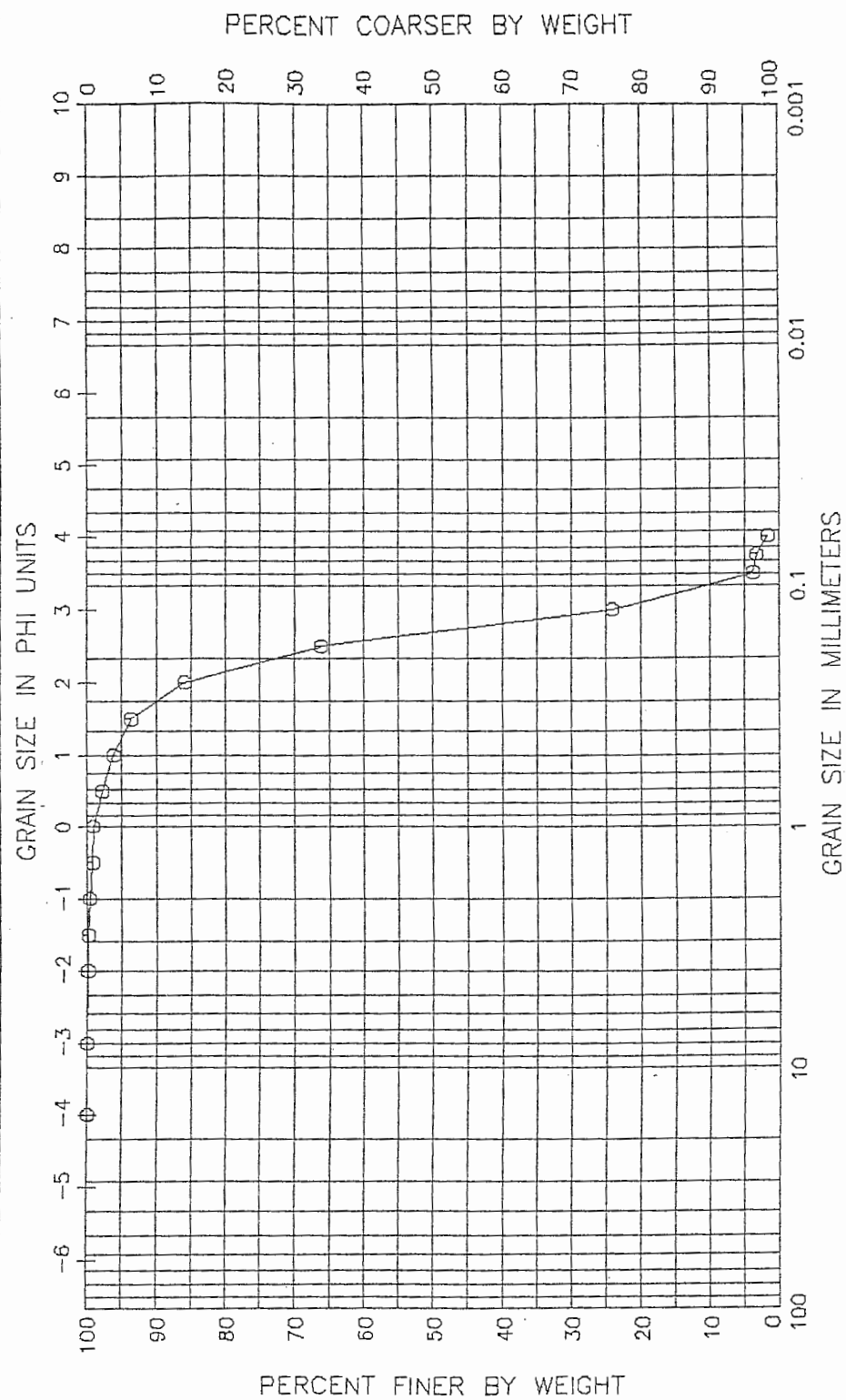
MOMENT METHOD

MEAN (PHI): 2.56 SORTING: 0.72  
MEAN (mm) : 0.17

DATA FILE NAME: DB99-27#3.TAB







WENTWORTH CLASSIFICATION

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

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
DB99--27#3 0		15.0	SP	0.17	0.15	0.72

GRAIN SIZE DISTRIBUTION CURVE  
DELRAY BEACH VIBRACORES 1999