

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: ID ON: 10/99

SAMPLE NO.: VC-99#94-1
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 2.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 115.65
SAMPLE WEIGHT AFTER WASH (GRAMS): 111.84

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	0.14	99.86
7	-1.50	2.800	0.56	0.48	99.52
10	-1.00	2.000	1.19	1.03	98.97
14	-0.50	1.400	2.14	1.85	98.15
18	0.00	1.000	3.70	3.20	96.80
25	0.50	0.710	6.09	5.27	94.73
35	1.00	0.500	9.78	8.46	91.54
45	1.50	0.355	12.79	11.06	88.94
60	2.00	0.250	15.83	13.69	86.31
80	2.50	0.180	23.18	20.04	79.96
120	3.00	0.125	72.05	62.30	37.70
170	3.50	0.090	111.10	96.07	3.93
200	3.75	0.075	111.72	96.60	3.40
230	4.00	0.063	113.73	98.34	1.66
PAN			115.64	99.99	0.01

PHI(5): 0.44 PHI(16): 2.18 PHI(25): 2.56
PHI(50): 2.85 PHI(75): 3.19 PHI(84): 3.32
PHI(95): 3.48

SIEVE LOSS(g): 0.01 SILT/CLAY: 3.40%
SKEWNESS: -1.570 KURTOSIS: 1.985

GRAPHIC METHOD

MEAN (PHI): 2.46 SORTING: 0.57
MEAN (mm) : 0.18 MEDIAN (mm): 0.14
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.61 SORTING: 0.94
MEAN (mm) : 0.16

DATA FILE NAME: VC-99#94-1.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: ID ON: 10/99

SAMPLE NO.: VC-99#94-2
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 4.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 110.65
SAMPLE WEIGHT AFTER WASH (GRAMS): 105.86

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	0.97	0.88	99.12
7	-1.50	2.800	3.63	3.28	96.72
10	-1.00	2.000	7.16	6.47	93.53
14	-0.50	1.400	15.39	13.91	86.09
18	0.00	1.000	27.57	24.92	75.08
25	0.50	0.710	45.81	41.40	58.60
35	1.00	0.500	59.08	53.39	46.61
45	1.50	0.355	66.16	59.79	40.21
60	2.00	0.250	69.47	62.78	37.22
80	2.50	0.180	73.31	66.25	33.75
120	3.00	0.125	96.57	87.28	12.72
170	3.50	0.090	105.64	95.47	4.53
200	3.75	0.075	105.81	95.63	4.37
230	4.00	0.063	108.24	97.82	2.18
PAN			110.64	99.99	0.01

PHI (5): -1.23 PHI (16): -0.41 PHI (25): 0.00
PHI (50): 0.86 PHI (75): 2.71 PHI (84): 2.92
PHI (95): 3.47

SIEVE LOSS (g): 0.01 SILT/CLAY: 4.37%
SKEWNESS: 0.157 KURTOSIS: 0.712

GRAPHIC METHOD

MEAN (PHI): 1.12 SORTING: 1.66
MEAN (mm): 0.46 MEDIAN (mm): 0.55
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.11 SORTING: 1.52
MEAN (mm): 0.46

DATA FILE NAME: VC-99#94-2.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: ID ON: 10/99

SAMPLE NO.: VC-99#94-3
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 8.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 118.18
SAMPLE WEIGHT AFTER WASH (GRAMS): 115.03

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	2.29	1.94	98.06
7	-1.50	2.800	3.13	2.65	97.35
10	-1.00	2.000	4.01	3.39	96.61
14	-0.50	1.400	5.94	5.03	94.97
18	0.00	1.000	8.96	7.58	92.42
25	0.50	0.710	14.28	12.08	87.92
35	1.00	0.500	22.05	18.66	81.34
45	1.50	0.355	28.75	24.33	75.67
60	2.00	0.250	35.51	30.05	69.95
80	2.50	0.180	48.58	41.11	58.89
120	3.00	0.125	99.92	84.55	15.45
170	3.50	0.090	114.54	96.92	3.08
200	3.75	0.075	114.89	97.22	2.78
230	4.00	0.063	116.57	98.64	1.36
PAN			118.17	99.99	0.01

PHI(5): -0.51 PHI(16): 0.80 PHI(25): 1.56
PHI(50): 2.60 PHI(75): 2.89 PHI(84): 2.99
PHI(95): 3.42

SIEVE LOSS(g): 0.01 SILT/CLAY: 2.78%
SKEWNESS: -1.043 KURTOSIS: 1.210

GRAPHIC METHOD

MEAN (PHI): 1.86 SORTING: 1.10
MEAN (mm) : 0.28 MEDIAN (mm): 0.16
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.08 SORTING: 1.27
MEAN (mm) : 0.24

DATA FILE NAME: VC-99#94-3.TAB

GRADATION ANALYSIS REPORT
 TOWN OF PALM BEACH
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SAMPLE NO.: VC-99#94-4
 SAMPLE ELEV. (FT. NGVD): 0.0
 SAMPLE DEPTH (FT.): 9.5
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SW

DRY SAMPLE WEIGHT (GRAMS): 120.11
 SAMPLE WEIGHT AFTER WASH (GRAMS): 117.11

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	10.26	8.54	91.46
7	-1.50	2.800	18.30	15.24	84.76
10	-1.00	2.000	26.91	22.40	77.60
14	-0.50	1.400	41.97	34.94	65.06
18	0.00	1.000	59.66	49.67	50.33
25	0.50	0.710	84.21	70.11	29.89
35	1.00	0.500	96.35	80.22	19.78
45	1.50	0.355	101.34	84.37	15.63
60	2.00	0.250	103.74	86.37	13.63
80	2.50	0.180	105.98	88.24	11.76
120	3.00	0.125	114.96	95.71	4.29
170	3.50	0.090	116.89	97.32	2.68
200	3.75	0.075	117.04	97.44	2.56
230	4.00	0.063	118.60	98.74	1.26
PAN			120.11	100.00	0.00

PHI(5): -2.41 PHI(16): -1.45 PHI(25): -0.90
 PHI(50): 0.01 PHI(75): 0.74 PHI(84): 1.46
 PHI(95): 2.95

SIEVE LOSS(g): 0.00 SILT/CLAY: 2.56%
 SKEWNESS: 0.180 KURTOSIS: 1.343

GRAPHIC METHOD

MEAN (PHI): 0.11 SORTING: 1.45
 MEAN (mm) : 0.93 MEDIAN (mm): 0.99
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 0.02 SORTING: 1.48
 MEAN (mm) : 0.99

DATA FILE NAME: VC-99#94-4.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH

TESTED BY: ID ON: 10/99

SAMPLE NO.: VC-99#94-5
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 11.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 108.00
SAMPLE WEIGHT AFTER WASH (GRAMS): 103.26

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	0.15	0.14	99.86
7	-1.50	2.800	0.52	0.48	99.52
10	-1.00	2.000	0.91	0.84	99.16
14	-0.50	1.400	2.45	2.27	97.73
18	0.00	1.000	5.46	5.06	94.94
25	0.50	0.710	11.49	10.64	89.36
35	1.00	0.500	19.14	17.72	82.28
45	1.50	0.355	24.20	22.41	77.59
60	2.00	0.250	28.71	26.58	73.42
80	2.50	0.180	37.67	34.88	65.12
120	3.00	0.125	82.58	76.46	23.54
170	3.50	0.090	102.72	95.11	4.89
200	3.75	0.075	103.14	95.50	4.50
230	4.00	0.063	105.61	97.79	2.21
PAN			107.99	99.99	0.01

PHI(5): -0.01 PHI(16): 0.88 PHI(25): 1.81
PHI(50): 2.68 PHI(75): 2.98 PHI(84): 3.20
PHI(95): 3.50

SIEVE LOSS(g): 0.01 SILT/CLAY: 4.50%
SKEWNESS: -0.808 KURTOSIS: 1.226

GRAPHIC METHOD

MEAN (PHI): 2.05 SORTING: 1.16
MEAN (mm) : 0.24 MEDIAN (mm): 0.16
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.26 SORTING: 1.12
MEAN (mm) : 0.21

DATA FILE NAME: VC-99#94-5.TAB

GRADATION ANALYSIS REPORT
TOWN OF PALM BEACH
TESTED BY: ID ON: 10/99

SAMPLE NO.: VC-99#94-6
SAMPLE ELEV. (FT. NGVD): 0.0
SAMPLE DEPTH (FT.): 13.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 117.34
SAMPLE WEIGHT AFTER WASH (GRAMS): 114.45

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	0.00	0.00	100.00
7	-1.50	2.800	1.10	0.94	99.06
10	-1.00	2.000	2.49	2.12	97.88
14	-0.50	1.400	7.48	6.37	93.63
18	0.00	1.000	17.37	14.80	85.20
25	0.50	0.710	43.20	36.82	63.18
35	1.00	0.500	70.28	59.89	40.11
45	1.50	0.355	85.51	72.87	27.13
60	2.00	0.250	91.38	77.88	22.12
80	2.50	0.180	93.97	80.08	19.92
120	3.00	0.125	106.70	90.93	9.07
170	3.50	0.090	114.19	97.32	2.68
200	3.75	0.075	114.41	97.50	2.50
230	4.00	0.063	115.88	98.75	1.25
PAN			117.33	99.99	0.01

PHI(5): -0.66 PHI(16): 0.03 PHI(25): 0.23
PHI(50): 0.79 PHI(75): 1.71 PHI(84): 2.68
PHI(95): 3.32

SIEVE LOSS(g): 0.01 SILT/CLAY: 2.50%
SKEWNESS: 0.409 KURTOSIS: 1.102

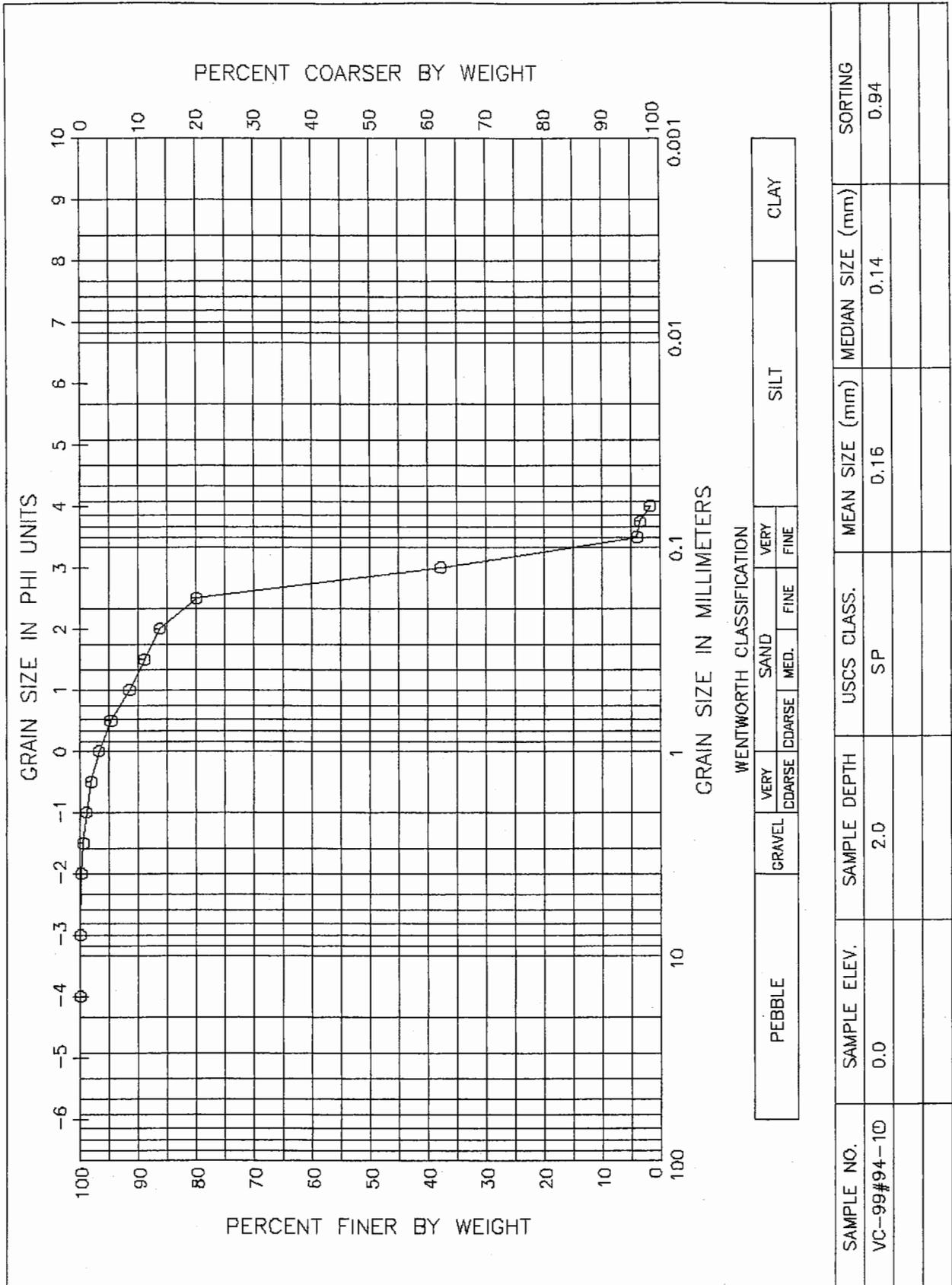
GRAPHIC METHOD

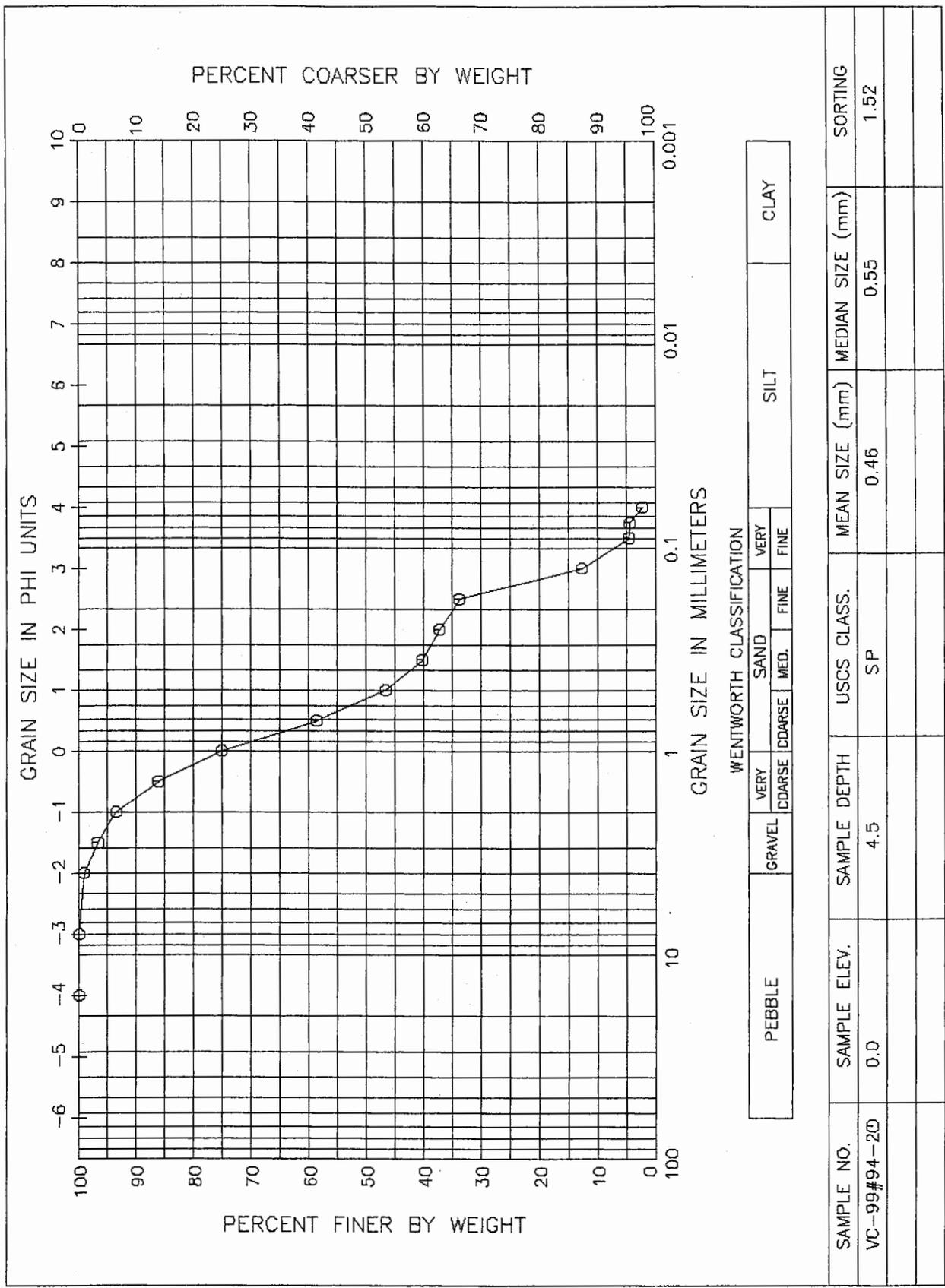
MEAN (PHI): 1.23 SORTING: 1.33
MEAN (mm) : 0.43 MEDIAN (mm): 0.58
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

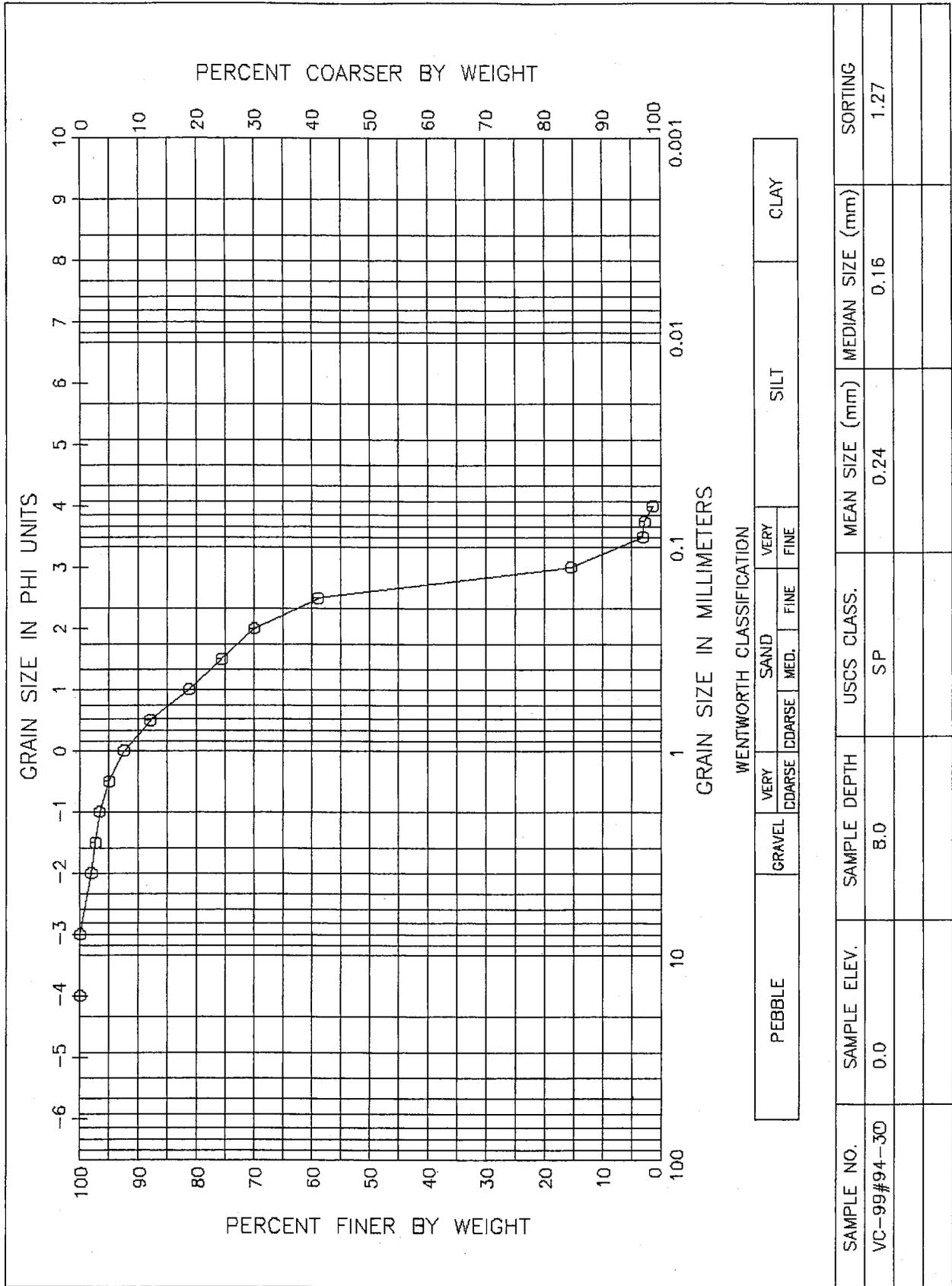
MEAN (PHI): 1.02 SORTING: 1.18
MEAN (mm) : 0.49

DATA FILE NAME: VC-99#94-6.TAB

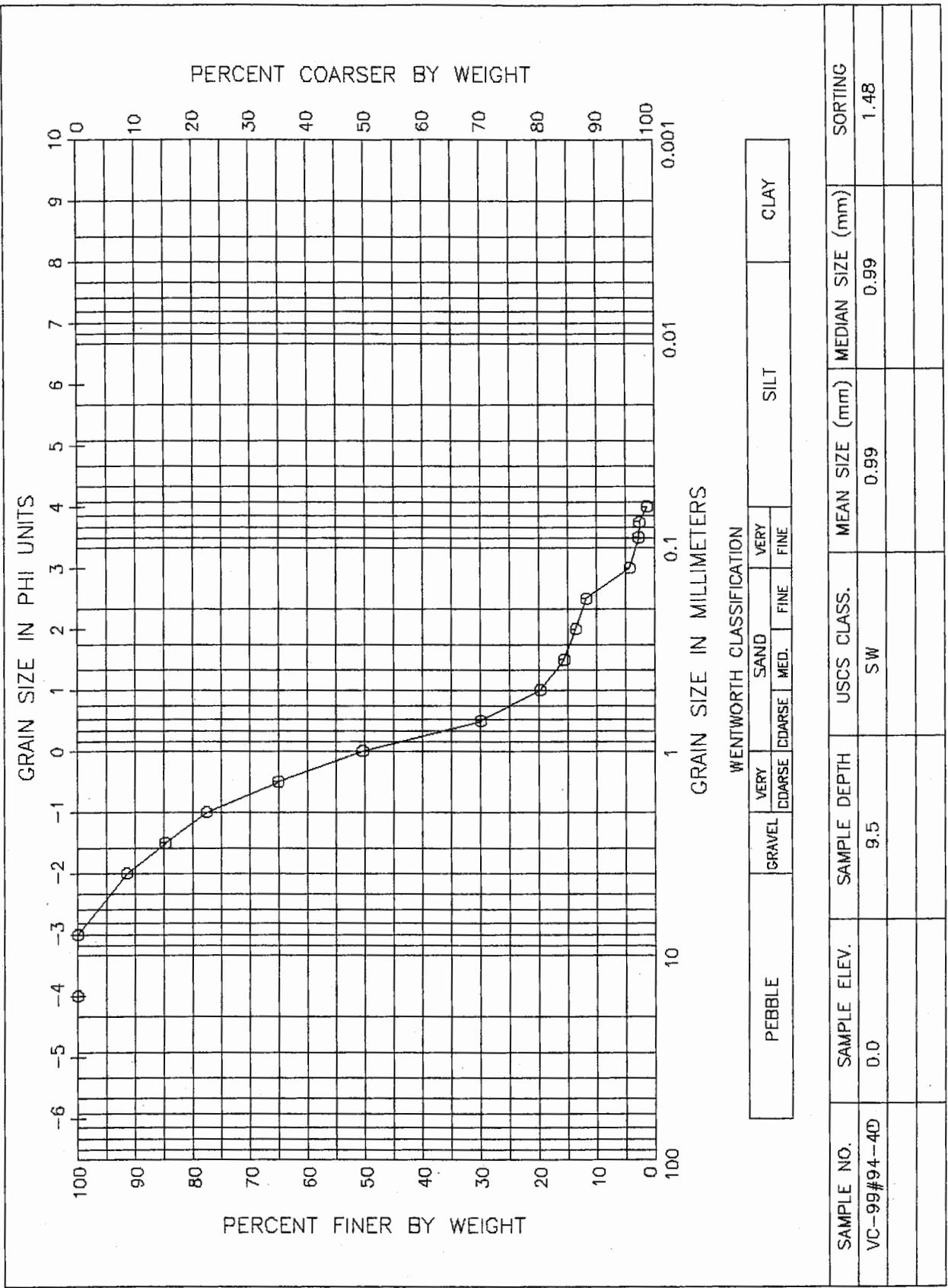




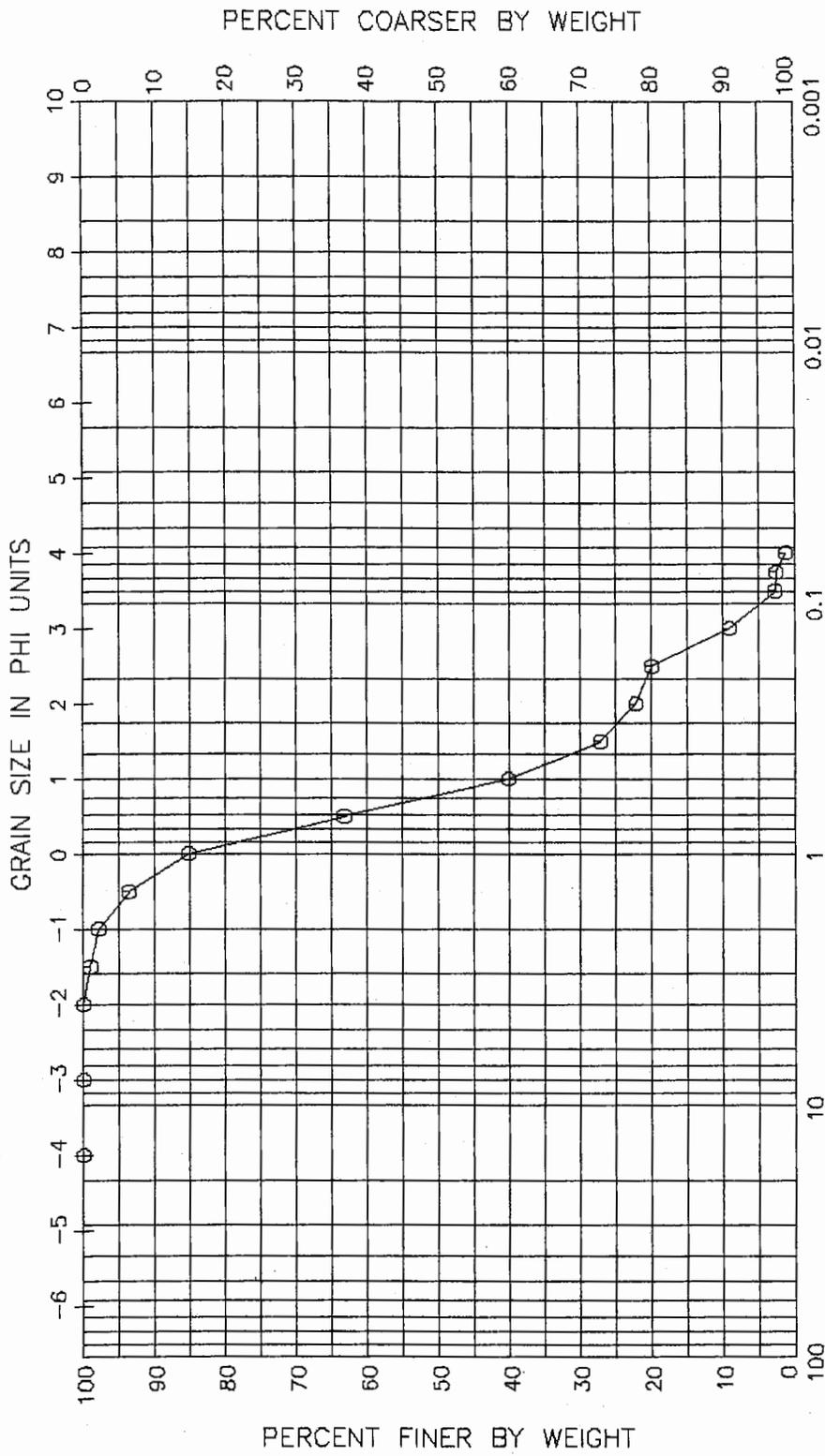
GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH



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
VC-99#94-60	0.0	13.5	SP	0.49	0.58	1.18

GRAIN SIZE DISTRIBUTION CURVE
TOWN OF PALM BEACH