

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW ON: 7/6/99

SAMPLE NO.: VC99 66#1  
SAMPLE ELEV. (FT. NGVD): -33.2  
SAMPLE DEPTH (FT.): 0.7  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 178.41  
SAMPLE WEIGHT AFTER WASH (GRAMS): 177.32

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	0.23	0.13	99.87
5	-2.00	4.000	2.57	1.44	98.56
7	-1.50	2.800	4.47	2.51	97.49
10	-1.00	2.000	7.78	4.36	95.64
14	-0.50	1.400	13.79	7.73	92.27
18	0.00	1.000	21.73	12.18	87.82
25	0.50	0.710	33.53	18.79	81.21
35	1.00	0.500	57.88	32.44	67.56
45	1.50	0.355	86.66	48.57	51.43
60	2.00	0.250	111.91	62.73	37.27
80	2.50	0.180	134.43	75.35	24.65
120	3.00	0.125	161.37	90.45	9.55
170	3.50	0.090	176.78	99.09	0.91
200	3.75	0.075	177.25	99.35	0.65
230	4.00	0.063	177.83	99.68	0.32
PAN			178.41	100.00	0.00

PHI (5): -0.91                      PHI (16): 0.29                      PHI (25): 0.73  
PHI (50): 1.55                      PHI (75): 2.49                      PHI (84): 2.79  
PHI (95): 3.26

SIEVE LOSS (g): 0.00                      SILT/CLAY: 0.65%  
SKEWNESS: -0.297                      KURTOSIS: 0.971

GRAPHIC METHOD

MEAN (PHI): 1.40                      SORTING: 1.25  
MEAN (mm): 0.38                      MEDIAN (mm): 0.34  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.46                      SORTING: 1.27  
MEAN (mm): 0.36

DATA FILE NAME: VC99-66#1.TAB

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW ON: 6/15/99

SAMPLE NO.: VC99 66#2  
SAMPLE ELEV. (FT. NGVD): -34.5  
SAMPLE DEPTH (FT.): 2.0  
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 161.10  
SAMPLE WEIGHT AFTER WASH (GRAMS): 159.06

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	0.40	0.25	99.75
5	-2.00	4.000	0.94	0.58	99.42
7	-1.50	2.800	1.24	0.77	99.23
10	-1.00	2.000	1.60	0.99	99.01
14	-0.50	1.400	2.41	1.50	98.50
18	0.00	1.000	3.46	2.15	97.85
25	0.50	0.710	5.56	3.45	96.55
35	1.00	0.500	8.99	5.58	94.42
45	1.50	0.355	12.54	7.78	92.22
60	2.00	0.250	18.81	11.68	88.32
80	2.50	0.180	33.16	20.58	79.42
120	3.00	0.125	96.88	60.14	39.86
170	3.50	0.090	157.36	97.68	2.32
200	3.75	0.075	158.74	98.54	1.46
230	4.00	0.063	159.98	99.30	0.70
PAN			161.08	99.99	0.01

PHI(5): 0.86                      PHI(16): 2.24                      PHI(25): 2.56  
PHI(50): 2.87                      PHI(75): 3.20                      PHI(84): 3.32  
PHI(95): 3.46

SIEVE LOSS(g): 0.02                      SILT/CLAY: 1.46%  
SKEWNESS: -1.317                      KURTOSIS: 1.660

GRAPHIC METHOD

MEAN (PHI): 2.55                      SORTING: 0.54  
MEAN (mm) : 0.17                      MEDIAN (mm): 0.14  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.67                      SORTING: 0.88  
MEAN (mm) : 0.16

DATA FILE NAME: VC99-66#2.TAB

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW            ON: 6/15/99

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SAMPLE NO.: VC99 66#3  
SAMPLE ELEV. (FT. NGVD): -36.7  
SAMPLE DEPTH (FT.): 4.2  
SAMPLE TYPE: CORE SAMPLE  
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USCS DESCRIPTION: SP  
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DRY SAMPLE WEIGHT (GRAMS): 161.15  
SAMPLE WEIGHT AFTER WASH (GRAMS): 159.87  
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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	1.34	0.83	99.17
7	-1.50	2.800	2.60	1.61	98.39
10	-1.00	2.000	5.56	3.45	96.55
14	-0.50	1.400	12.11	7.51	92.49
18	0.00	1.000	22.24	13.80	86.20
25	0.50	0.710	40.67	25.24	74.76
35	1.00	0.500	73.67	45.72	54.28
45	1.50	0.355	96.77	60.05	39.95
60	2.00	0.250	112.23	69.64	30.36
80	2.50	0.180	124.10	77.01	22.99
120	3.00	0.125	142.68	88.54	11.46
170	3.50	0.090	158.98	98.65	1.35
200	3.75	0.075	159.73	99.12	0.88
230	4.00	0.063	160.44	99.56	0.44
PAN			161.17	100.01	-0.01

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PHI (5): -0.81            PHI (16): 0.10            PHI (25): 0.49  
PHI (50): 1.15            PHI (75): 2.36            PHI (84): 2.80  
PHI (95): 3.32  
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SIEVE LOSS (g): -0.02            SILT/CLAY: 0.88%  
SKEWNESS: 0.078            KURTOSIS: 0.903  
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GRAPHIC METHOD  
MEAN (PHI): 1.31            SORTING: 1.35  
MEAN (mm) : 0.40            MEDIAN (mm): 0.45  
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
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MOMENT METHOD  
MEAN (PHI): 1.28            SORTING: 1.26  
MEAN (mm) : 0.41  
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DATA FILE NAME: VC99-66#3.TAB

GRADATION ANALYSIS REPORT

TOWN OF PALM BEACH

TESTED BY: RW ON: 6/15/99

SAMPLE NO.: VC99 66#4  
 SAMPLE ELEV. (FT. NGVD): -41.5  
 SAMPLE DEPTH (FT.): 9.0  
 SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 196.94  
 SAMPLE WEIGHT AFTER WASH (GRAMS): 193.49

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	0.42	0.21	99.79
7	-1.50	2.800	0.67	0.34	99.66
10	-1.00	2.000	0.88	0.45	99.55
14	-0.50	1.400	1.09	0.55	99.45
18	0.00	1.000	1.36	0.69	99.31
25	0.50	0.710	1.74	0.88	99.12
35	1.00	0.500	2.52	1.28	98.72
45	1.50	0.355	4.03	2.05	97.95
60	2.00	0.250	9.07	4.61	95.39
80	2.50	0.180	36.85	18.71	81.29
120	3.00	0.125	146.66	74.47	25.53
170	3.50	0.090	191.50	97.24	2.76
200	3.75	0.075	192.87	97.93	2.07
230	4.00	0.063	195.13	99.08	0.92
PAN			196.93	99.99	0.01

PHI (5): 2.01      PHI (16): 2.40      PHI (25): 2.56  
 PHI (50): 2.78      PHI (75): 3.01      PHI (84): 3.21  
 PHI (95): 3.45

SIEVE LOSS (g): 0.01      SILT/CLAY: 2.07%  
 SKEWNESS: -0.120      KURTOSIS: 1.294

GRAPHIC METHOD

MEAN (PHI): 2.77      SORTING: 0.40  
 MEAN (mm): 0.15      MEDIAN (mm): 0.15  
 NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.73      SORTING: 0.56  
 MEAN (mm): 0.15

DATA FILE NAME: VC99-66#4.TAB

GRADATION ANALYSIS REPORT  
TOWN OF PALM BEACH  
TESTED BY: RW            ON: 6/15/99

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SAMPLE NO.: VC99 66#5  
SAMPLE ELEV. (FT. NGVD): -46.5  
SAMPLE DEPTH (FT.): 14.0  
SAMPLE TYPE: CORE SAMPLE  
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USCS DESCRIPTION: SP  
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DRY SAMPLE WEIGHT (GRAMS): 253.30  
SAMPLE WEIGHT AFTER WASH (GRAMS): 248.38  
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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	0.08	99.92
10	-1.00	2.000	0.46	0.18	99.82
14	-0.50	1.400	0.85	0.34	99.66
18	0.00	1.000	1.33	0.53	99.47
25	0.50	0.710	1.90	0.75	99.25
35	1.00	0.500	2.74	1.08	98.92
45	1.50	0.355	4.45	1.76	98.24
60	2.00	0.250	10.63	4.20	95.80
80	2.50	0.180	42.24	16.68	83.32
120	3.00	0.125	182.41	72.01	27.99
170	3.50	0.090	245.30	96.84	3.16
200	3.75	0.075	247.59	97.75	2.25
230	4.00	0.063	250.58	98.93	1.07
PAN			253.29	100.00	0.00

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PHI(5): 2.03            PHI(16): 2.47            PHI(25): 2.58  
PHI(50): 2.80            PHI(75): 3.06            PHI(84): 3.24  
PHI(95): 3.46  
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SIEVE LOSS(g): 0.01            SILT/CLAY: 2.25%  
SKEWNESS: -0.139            KURTOSIS: 1.209  
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GRAPHIC METHOD

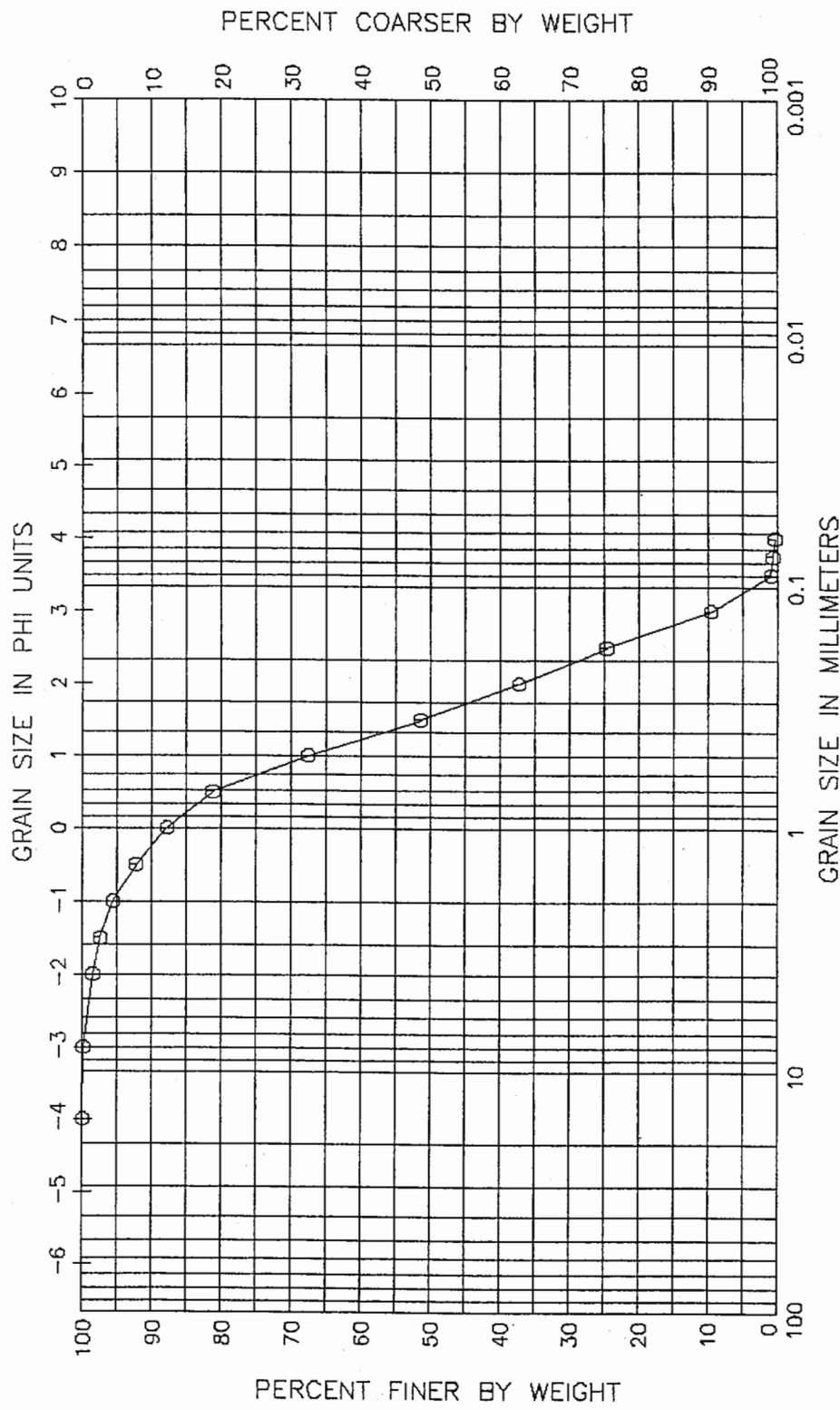
MEAN (PHI): 2.80            SORTING: 0.38  
MEAN (mm) : 0.14            MEDIAN (mm): 0.14

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD  
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MOMENT METHOD

MEAN (PHI): 2.77            SORTING: 0.50  
MEAN (mm) : 0.15  
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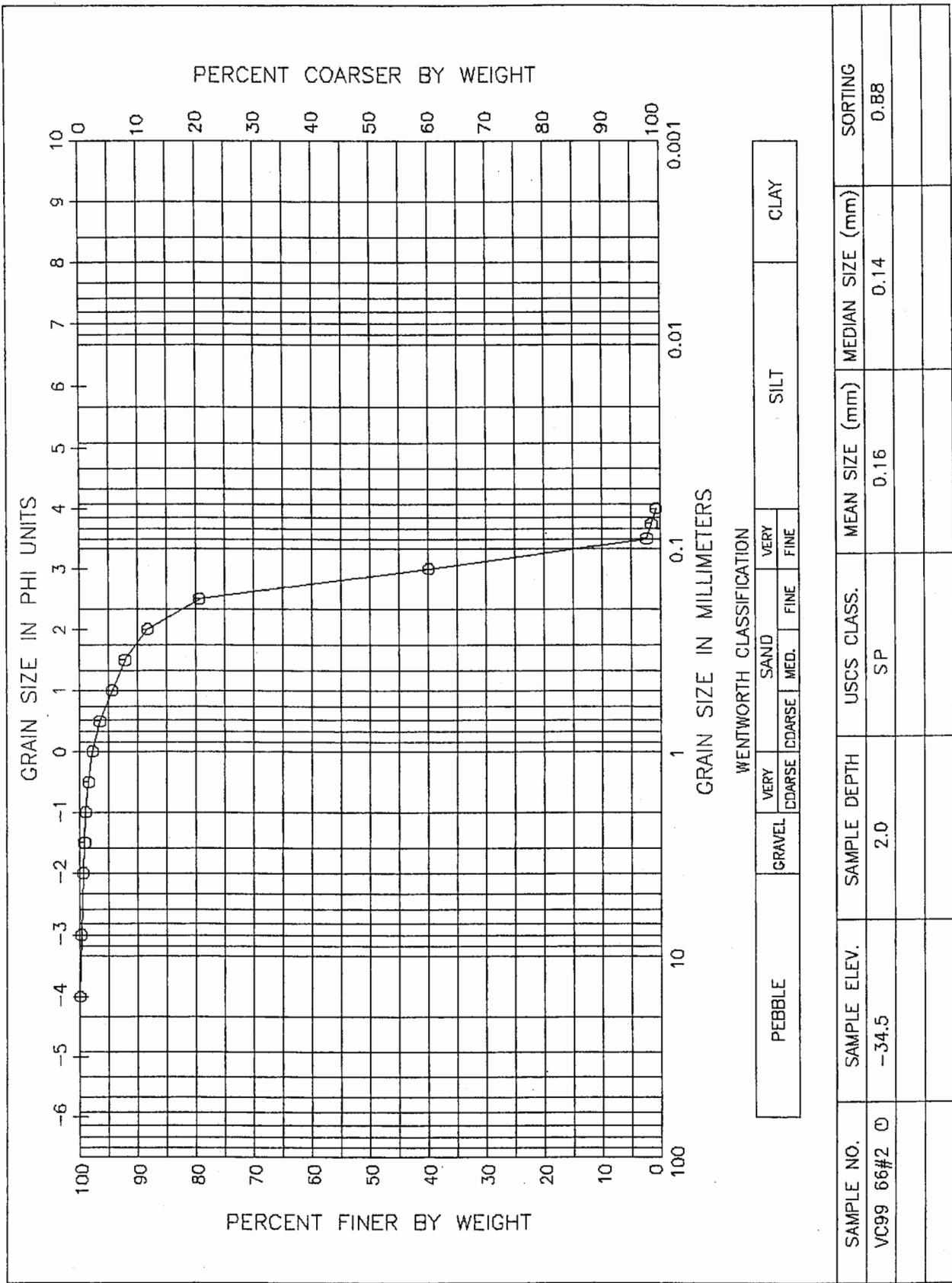
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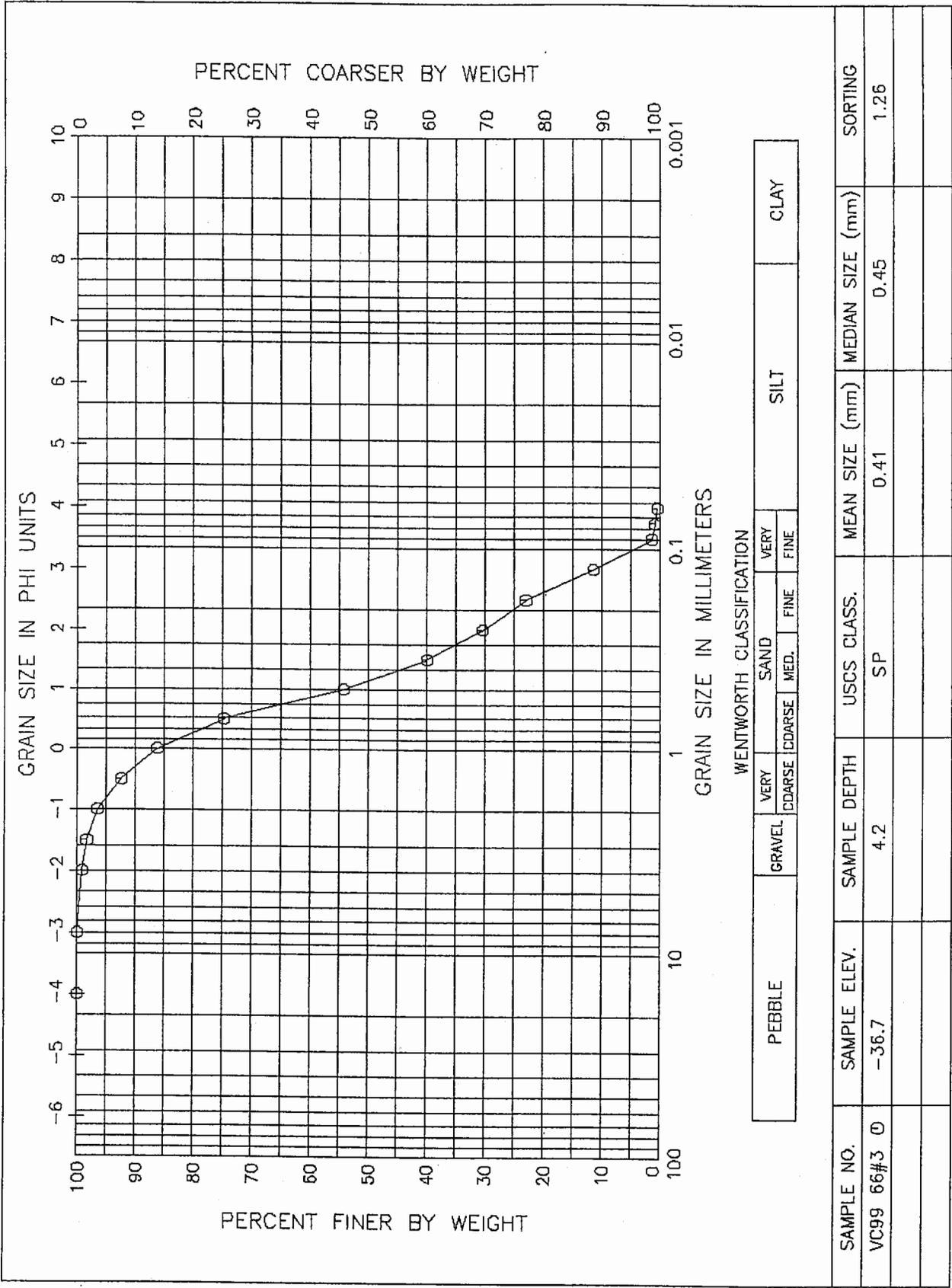
WENTWORTH CLASSIFICATION						
PEBBLE	GRAVEL	SAND		SILT		CLAY
		VERY COARSE	MED. FINE	VERY FINE	CLAY	

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC99 66#1	-33.2	0.7	SP	0.36	0.34	1.27

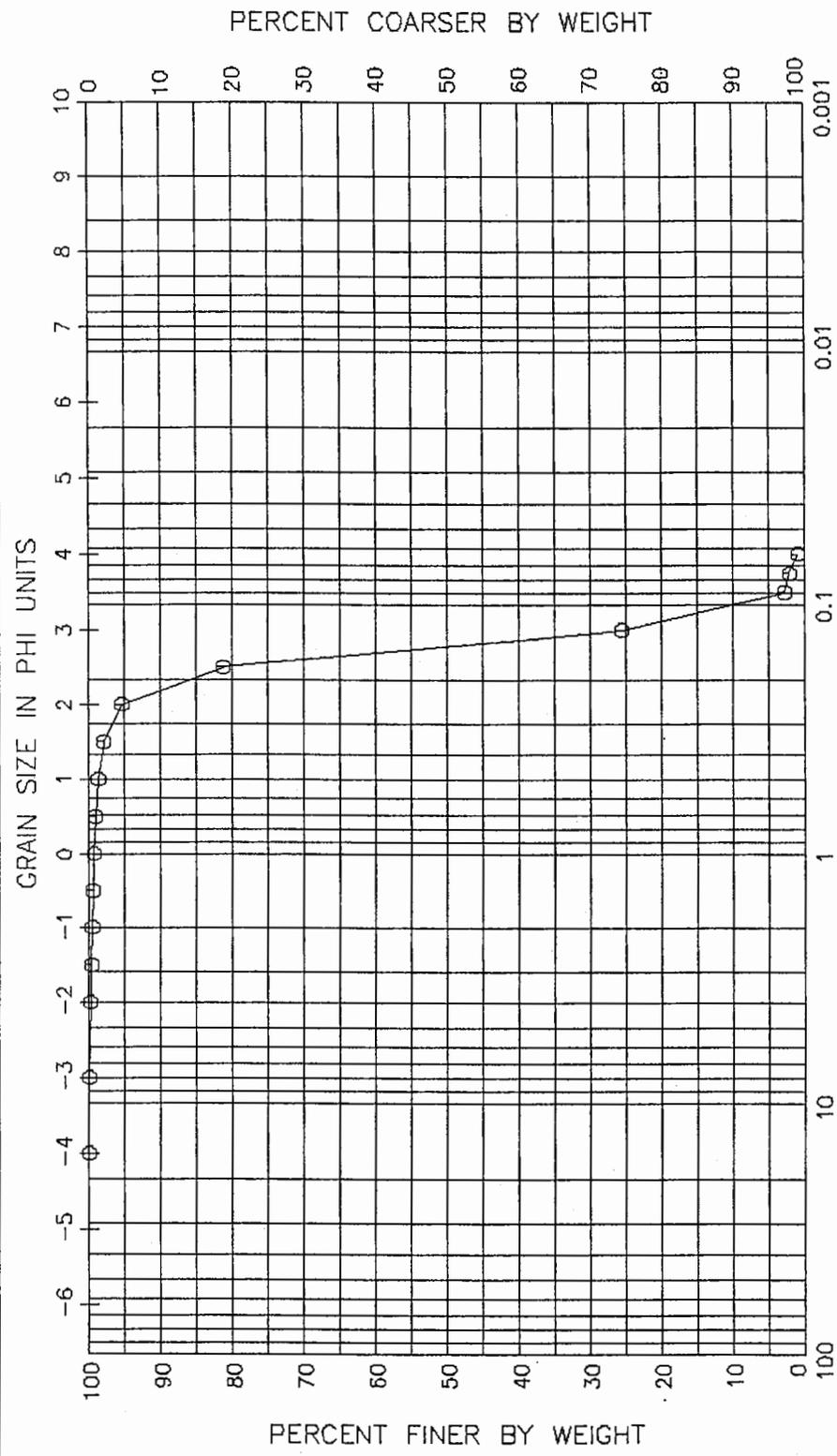
GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH

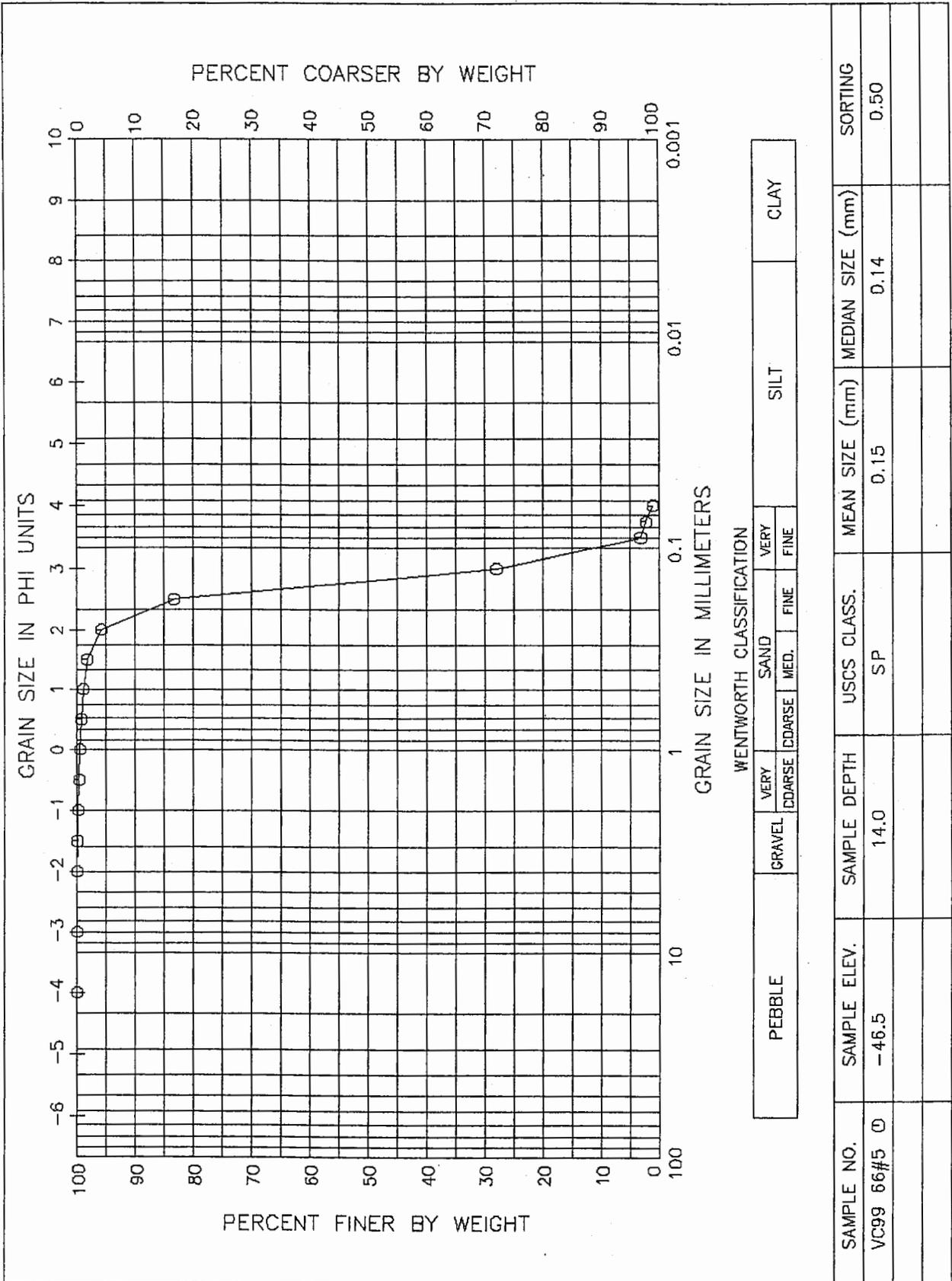


WENTWORTH CLASSIFICATION

PEBBLE	GRAVEL	SAND		CLAY	
		VERY COARSE	COARSE	VERY FINE	FINE

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC99 66#4 0	-41.5	9.0	SP	0.15	0.15	0.56

GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH



GRAIN SIZE DISTRIBUTION CURVE  
TOWN OF PALM BEACH