

VIBRACORE LOG							
PROJECT: NORTH BOCA RATON BORROW AREA (1984)				CORE NO: BR-5			
COORDINATES:		DATE: SEPT. 11, 1984		WATER DEPTH: 43.0 Ft. NGVD			
N = 744302		START TIME: 1944		DRILLER: EXMAR (W. BARTH)			
E = 808035		END TIME: 1958		CLIENT REP: R. SPADONI			
CORE DIAMETER: 2.5"	ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS	
LENGTH OF BARREL: 20.0'	43.0'	0.0					
PENETRATION DEPTH: 18.0'			DREDGED				
LENGTH RECOVERED: 17.6'			1988	2.4 FT		2.04 Phi	
PERCENT RECOVERED: 98 %						0.24 mm	
LENGTH RETAINED : 17.6'	46.0'				9	2.3 % SILT	
SUPPORT VESSEL: SEAWARD EXPLORER					3.0	(SP)	
POSITIONING: TRISPOUNDER		5.0		GRAY, MEDIUM GRAIN SAND WITH SHELL HASH	5.5'	0.3 % SILT	
						CUT	
WEATHER:							
WIND:							
DIR:	50.5'				10	CUT	
SPEED:					7.5	2.08 Phi	
						0.24 mm	
WAVES						4.5 % SILT	
DIR:		10.0		GRAY, MEDIUM GRAIN SAND WITH SHELL HASH		(SP)	
HEIGHT:						0.5 % SILT	
	53.9'				11	2.08 Phi	
ANALYSIS BY CPE 1994					10.9'	0.24 mm	
ANALYSIS BY UF 1984						3.9 % SILT	
						(SP)	
ANALYSIS METHOD:						0.5 % SILT	
VISUAL LOGGING						CUT	
MECHANICAL SIEVE							
		15.0		GRAY, MEDIUM GRAIN SAND WITH SHELL HASH			
	58.5'				12	1.87 Phi	
					15.5'	0.27 mm	
						2.9 % SILT	
						(SP)	
	61.0'	18.0				0.5 % SILT	
		20.0					

COASTAL PLANNING & ENGINEERING, INC

GRADATION ANALYSIS REPORT
N. BOCA RATON BORROW AREA VC 9/84
TESTED BY: MDA ON: 09-02-94

SAMPLE NO.: BR5 S#9
SAMPLE ELEV. (FT. NGVD): -46.0
SAMPLE DEPTH (FT.): -3.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 72.81
SAMPLE WEIGHT AFTER WASH (GRAMS): 71.20

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.64	.88	99.12
7	-1.5	2.800	1.93	2.65	97.35
10	-1.0	2.000	2.75	3.78	96.22
14	-0.5	1.400	3.45	4.74	95.26
18	0.0	1.000	4.19	5.75	94.25
25	0.5	.710	5.43	7.46	92.54
35	1.0	.500	7.77	10.67	89.33
45	1.5	.355	10.94	15.03	84.97
60	2.0	.250	22.58	31.01	68.99
80	2.5	.180	48.02	65.95	34.05
120	3.0	.125	67.92	93.28	6.72
170	3.5	.090	71.06	97.60	2.40
200	3.75	.075	71.14	97.71	2.29
230	4.0	.063	71.97	98.85	1.15
PAN			72.78	99.96	.04

PHI(5):	-.37	PHI(16):	1.53	PHI(25):	1.81
PHI(50):	2.27	PHI(75):	2.67	PHI(84):	2.83
PHI(95):	3.20				

SIEVE LOSS(g):	.03	SILT/CLAY:	2.29%
SKEWNESS:	-1.716	KURTOSIS:	1.714

GRAPHIC METHOD

MEAN (PHI):	1.89	SORTING:	.65
MEAN (mm):	.27	MEDIAN (mm):	.21

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI):	2.04	SORTING:	1.05
MEAN (mm):	.24		

DATA FILE NAME: B:VC5S#9.TAB

GRADATION ANALYSIS REPORT
N. BOCA RATON BORROW AREA VC 9/84
TESTED BY: MDA ON: 09-02-94

SAMPLE NO.: BR5 S#10
SAMPLE ELEV. (FT. NGVD): -50.5
SAMPLE DEPTH (FT.): -7.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 63.68
SAMPLE WEIGHT AFTER WASH (GRAMS): 60.99

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.00	.00	100.00
7	-1.5	2.800	.00	.00	100.00
10	-1.0	2.000	.11	.17	99.83
14	-0.5	1.400	.34	.53	99.47
18	0.0	1.000	.64	1.01	98.99
25	0.5	.710	1.34	2.10	97.90
35	1.0	.500	4.43	6.96	93.04
45	1.5	.355	10.10	15.86	84.14
60	2.0	.250	26.33	41.35	58.65
80	2.5	.180	46.48	72.99	27.01
120	3.0	.125	58.46	91.80	8.20
170	3.5	.090	60.49	94.99	5.01
200	3.75	.075	60.84	95.54	4.46
230	4.0	.063	62.26	97.78	2.22
PAN			63.63	99.92	.08

PHI(5): .80 PHI(16): 1.50 PHI(25): 1.68
PHI(50): 2.14 PHI(75): 2.55 PHI(84): 2.79
PHI(95): 3.50

SIEVE LOSS(g): .05 SILT/CLAY: 4.46%
SKEWNESS: .029 KURTOSIS: 1.269

GRAPHIC METHOD

MEAN (PHI): 2.15 SORTING: .64
MEAN (mm) : .23 MEDIAN (mm): .23

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.08 SORTING: .72
MEAN (mm) : .24

DATA FILE NAME: B:VC5S#10.TAB

GRADATION ANALYSIS REPORT
N. BOCA RATON BORROW AREA VC 9/84
TESTED BY: MDA ON: 09-02-94

SAMPLE NO.: BR5 S#11
SAMPLE ELEV. (FT. NGVD): -53.75
SAMPLE DEPTH (FT.): -10.75
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 71.83
SAMPLE WEIGHT AFTER WASH (GRAMS): 69.24

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	1.14	1.59	98.41
7	-1.5	2.800	1.29	1.80	98.20
10	-1.0	2.000	1.37	1.91	98.09
14	-0.5	1.400	1.55	2.16	97.84
18	0.0	1.000	1.81	2.52	97.48
25	0.5	.710	2.44	3.40	96.60
35	1.0	.500	4.42	6.15	93.85
45	1.5	.355	8.61	11.99	88.01
60	2.0	.250	25.57	35.60	64.40
80	2.5	.180	50.64	70.50	29.50
120	3.0	.125	66.71	92.87	7.13
170	3.5	.090	68.77	95.74	4.26
200	3.75	.075	69.01	96.07	3.93
230	4.0	.063	70.40	98.00	2.00
PAN			71.75	99.89	.11

PHI(5): .79 PHI(16): 1.58 PHI(25): 1.78
PHI(50): 2.21 PHI(75): 2.60 PHI(84): 2.80
PHI(95): 3.37

SIEVE LOSS(g): .08 SILT/CLAY: 3.93%
SKEWNESS: -.251 KURTOSIS: 1.282

GRAPHIC METHOD

MEAN (PHI): 2.15 SORTING: .61
MEAN (mm): .23 MEDIAN (mm): .22
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.08 SORTING: .89
MEAN (mm): .24

DATA FILE NAME: B:VC5S#11.TAB

GRADATION ANALYSIS REPORT
N. BOCA RATON BORROW AREA VC 9/84
TESTED BY: MDA ON: 09-02-94

SAMPLE NO.: BR5 S#12
SAMPLE ELEV. (FT. NGVD): -58.5
SAMPLE DEPTH (FT.): -15.5
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 67.39
SAMPLE WEIGHT AFTER WASH (GRAMS): 65.52

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.44	.65	99.35
7	-1.5	2.800	.70	1.04	98.96
10	-1.0	2.000	1.13	1.68	98.32
14	-0.5	1.400	1.74	2.58	97.42
18	0.0	1.000	2.53	3.75	96.25
25	0.5	.710	4.15	6.16	93.84
35	1.0	.500	7.48	11.10	88.90
45	1.5	.355	13.12	19.47	80.53
60	2.0	.250	33.24	49.32	50.68
80	2.5	.180	55.73	82.70	17.30
120	3.0	.125	64.31	95.43	4.57
170	3.5	.090	65.32	96.93	3.07
200	3.75	.075	65.44	97.11	2.89
230	4.0	.063	66.38	98.51	1.49
PAN			67.32	99.90	.10

PHI(5): .26 PHI(16): 1.29 PHI(25): 1.59
PHI(50): 2.01 PHI(75): 2.38 PHI(84): 2.55
PHI(95): 2.98

SIEVE LOSS(g): .07 SILT/CLAY: 2.89%
SKEWNESS: -.778 KURTOSIS: 1.410

GRAPHIC METHOD

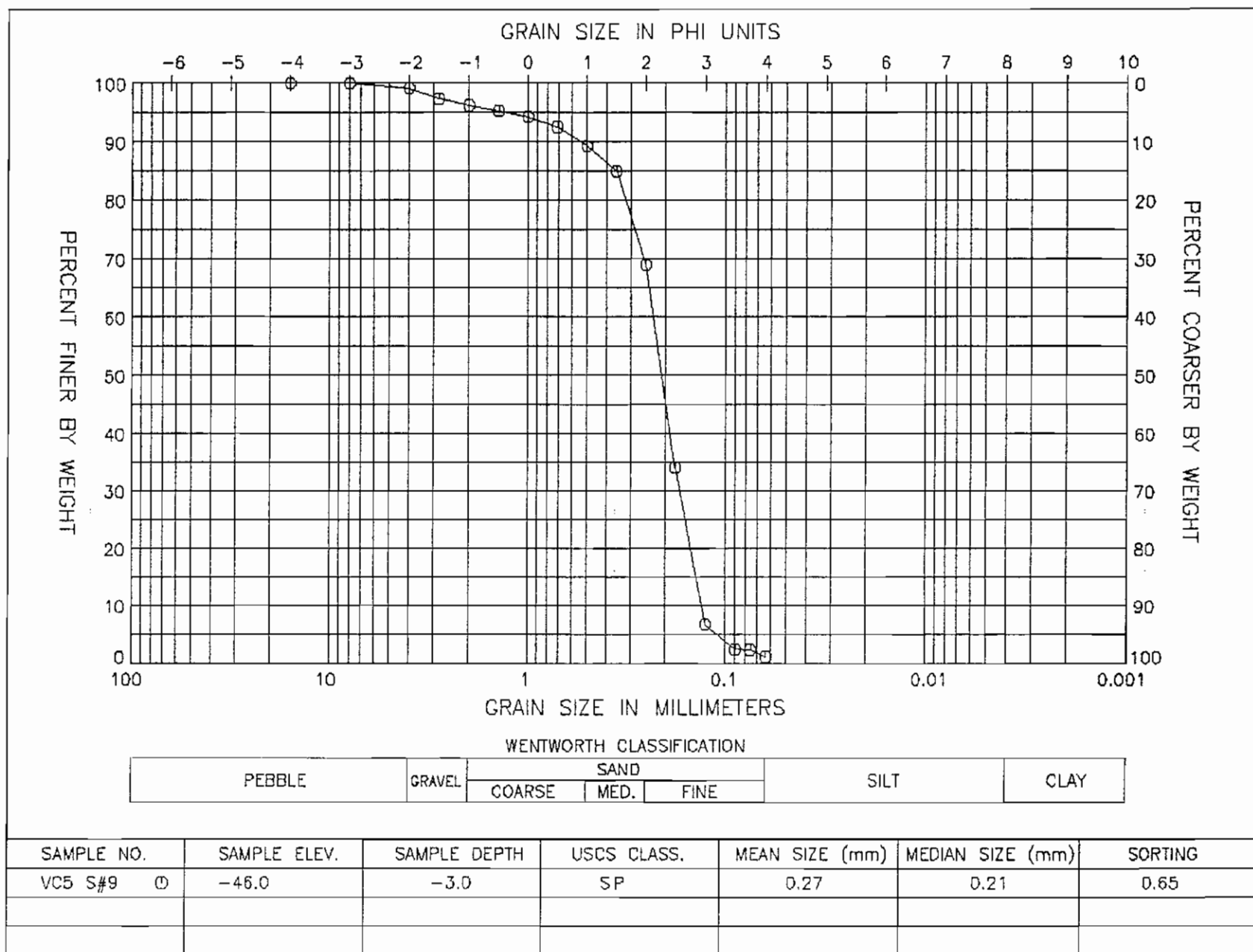
MEAN (PHI): 1.82 SORTING: .63
MEAN (mm): .28 MEDIAN (mm): .25
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

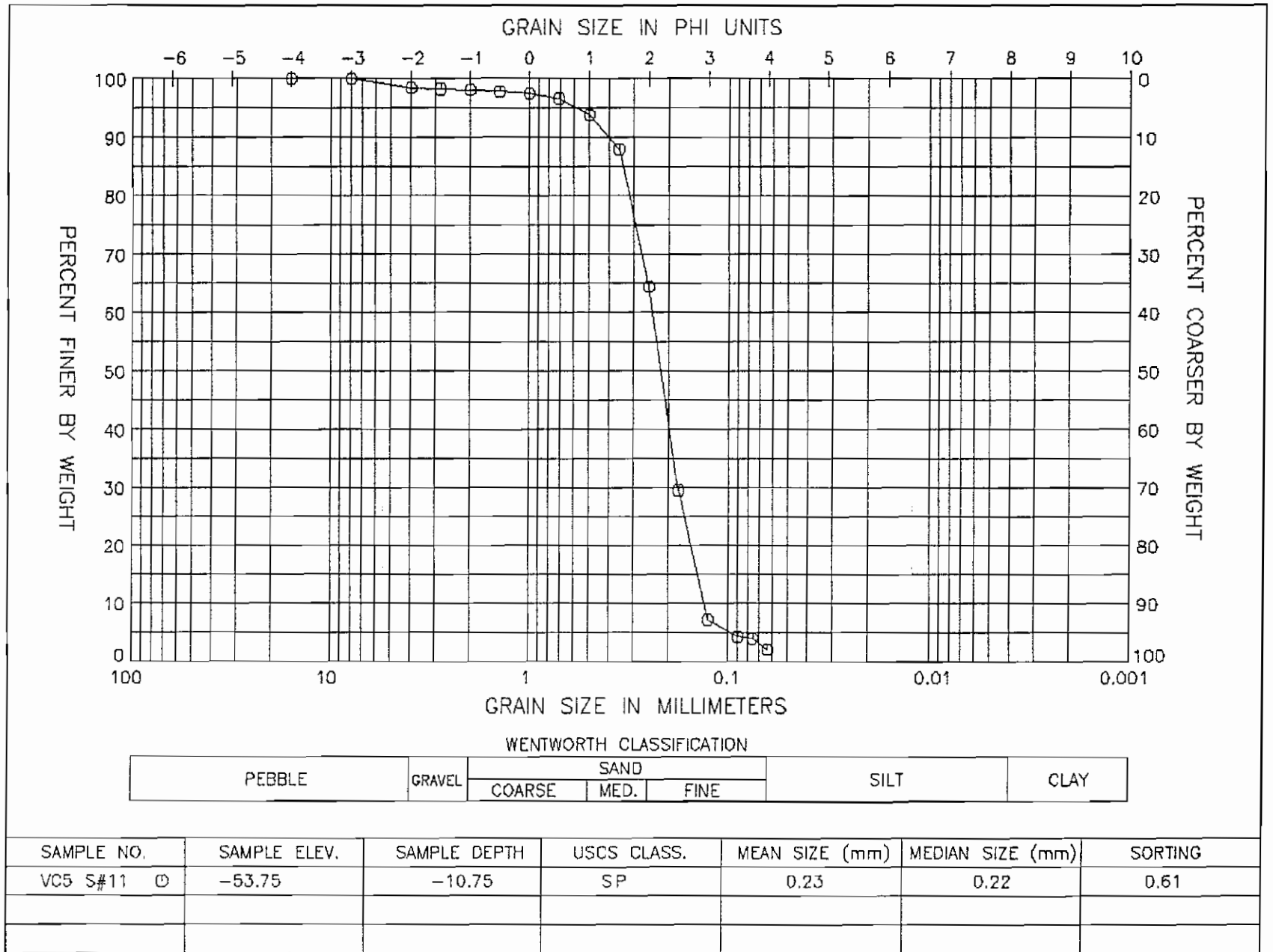
MEAN (PHI): 1.87 SORTING: .87
MEAN (mm): .27

DATA FILE NAME: B:VC5S#12.TAB

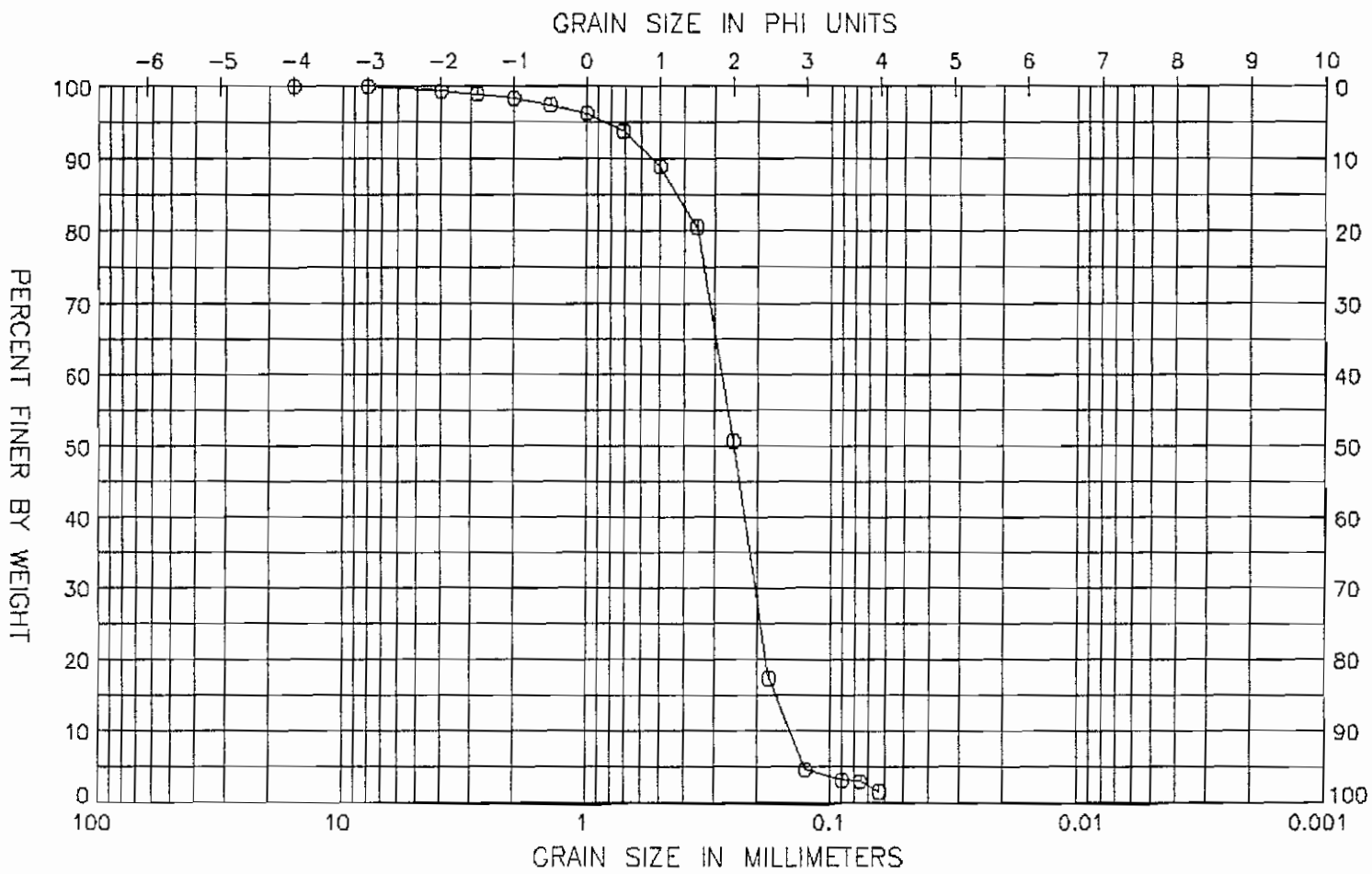
GRAIN SIZE DISTRIBUTION CURVE
N. BOCA RATON BORROW AREA VC 9/84



GRAIN SIZE DISTRIBUTION CURVE
N. BOCA RATON BORROW AREA VC 9/84



PERCENT COARSER BY WEIGHT



WENTWORTH CLASSIFICATION

PEBBLE	GRAVEL	SAND			SILT	CLAY
		COARSE	MED.	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
VC5 S#12 O	-58.5	-15.5	SP	0.28	0.25	0.63

GRAIN SIZE DISTRIBUTION CURVE
N. BOCA RATON BORROW AREA VC 9/84