

DRILLING LOG		DIVISION: South Atlantic	INSTALLATION: Jacksonville District	SHEET 1 of 1
1. PROJECT		DELRAY BEACH		
2. LOCATION		(Coordinates or Station) X= 966324 Y= 770218		
3. DRILLING AGENCY:		ALPINE SEISMIC		
4. HOLE NO.		(As shown on drawing title and file number) DB-99-23		
6. NAME OF DRILLER		ROB SUSKO		
6. DIRECTION OF HOLE		VERTICAL		
7. THICKNESS OF BURDEN		0.0 FT		
8. DEPTH DRILLED INTO ROCK		0.0 FT		
9. TOTAL DEPTH OF HOLE		19.3' FT		
10. SIZE AND TYPE OF BIT		3"		
11. DATUM FOR ELEVATION SHOWN		(TBM or MSL) NGVD		
12. MANUFACTURER'S DESIGNATION OF DRILL		ALPINE PNEUMATIC		
13. TOT NO. OF OVERBURDEN SAMPLES TAKEN		disturbed: 0.0 undisturbed: 0.0		
14. TOTAL NO. OF CORE BOXES		1		
15. ELEVATION GROUND WATER				
16. DATE HOLE		Started Completed 4/20/99 4/20/99		
17. ELEVATION TOP OF HOLE		-58.0 ft.		
18. TOTAL CORE RECOVERY FOR BORING		99%		
19. SIGNATURE OF GEOLOGIST		IBRAHIM DREMALI		

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS
-58	0					SP
	1				1	Sample #1, Depth = 3.0' 0.24 mm, 0.68 phi sorting 1.27% silt
	2					
	3					
	4					
	5					
	6				2	Sample #2, Depth = 7.0' 0.27 mm, 0.81 phi sorting 1.18% silt
	7					
	8					
	9					
	10		SAND, fine-grained, trace shell hash, 2" whole shell at -64.0', Gray (5Y-6/1) (SP)		3	Sample #3, Depth = 11.0' 0.23 mm, 0.64 phi sorting 1.85% silt
	11					
	12					
	13					
	14					
	15					
	16				4	Sample #4, Depth = 15.0' 0.21 mm, 0.64 phi sorting 1.91% silt
	17					
	18					
-77.3	19					
	20		End of Boring			
	21					
	22					
	23					
	24					Note: Soils are classified in accordance with the Unified Soils Classification System.

PROJECT: Delray Beach

HOLE NUMBER:

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

SAMPLE NO.: DB99-23 S#1
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 3.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 98.28
SAMPLE WEIGHT AFTER WASH (GRAMS): 97.11

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	0.02	0.02	99.98
7	-1.50	2.800	0.13	0.13	99.87
10	-1.00	2.000	0.26	0.26	99.74
14	-0.50	1.400	0.66	0.67	99.33
18	0.00	1.000	1.14	1.16	98.84
25	0.50	0.710	2.60	2.65	97.35
35	1.00	0.500	6.35	6.46	93.54
45	1.50	0.355	13.88	14.12	85.88
60	2.00	0.250	40.25	40.95	59.05
80	2.50	0.180	74.69	76.00	24.00
120	3.00	0.125	94.17	95.82	4.18
170	3.50	0.090	96.92	98.62	1.38
200	3.75	0.075	97.03	98.73	1.27
230	4.00	0.063	97.67	99.38	0.62
PAN			98.28	100.00	0.00

PHI(5): 0.81 PHI(16): 1.53 PHI(25): 1.70
PHI(50): 2.13 PHI(75): 2.49 PHI(84): 2.70
PHI(95): 2.98

SIEVE LOSS(g): 0.00 SILT/CLAY: 1.27%
SKEWNESS: -0.403 KURTOSIS: 1.136

GRAPHIC METHOD

MEAN (PHI): 2.03 SORTING: 0.58
MEAN (mm) : 0.24 MEDIAN (mm): 0.23

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.06 SORTING: 0.68
MEAN (mm) : 0.24

DATA FILE NAME: DB99-23#1.TAB

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

SAMPLE NO.: DB99-23 S#2
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 7.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 99.79
SAMPLE WEIGHT AFTER WASH (GRAMS): 98.68

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	0.57	0.57	99.43
5	-2.00	4.000	0.80	0.80	99.20
7	-1.50	2.800	0.96	0.96	99.04
10	-1.00	2.000	1.12	1.12	98.88
14	-0.50	1.400	1.53	1.53	98.47
18	0.00	1.000	2.18	2.18	97.82
25	0.50	0.710	4.02	4.03	95.97
35	1.00	0.500	8.47	8.49	91.51
45	1.50	0.355	17.84	17.88	82.12
60	2.00	0.250	48.68	48.78	51.22
80	2.50	0.180	83.50	83.68	16.32
120	3.00	0.125	97.04	97.24	2.76
170	3.50	0.090	98.56	98.77	1.23
200	3.75	0.075	98.61	98.82	1.18
230	4.00	0.063	99.18	99.39	0.61
PAN			99.77	99.98	0.02

PHI(5): 0.61 PHI(16): 1.40 PHI(25): 1.62
PHI(50): 2.02 PHI(75): 2.38 PHI(84): 2.51
PHI(95): 2.92

SIEVE LOSS(g): 0.02 SILT/CLAY: 1.18%
SKEWNESS: -0.457 KURTOSIS: 1.244

GRAPHIC METHOD

MEAN (PHI): 1.89 SORTING: 0.56
MEAN (mm) : 0.27 MEDIAN (mm): 0.25

NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.90 SORTING: 0.81
MEAN (mm) : 0.27

DATA FILE NAME: DB99-23#2.TAB

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

SAMPLE NO.: DB99-23 S#3
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 11.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 98.86
SAMPLE WEIGHT AFTER WASH (GRAMS): 97.12

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	0.21	0.21	99.79
10	-1.00	2.000	0.37	0.37	99.63
14	-0.50	1.400	0.66	0.67	99.33
18	0.00	1.000	1.18	1.19	98.81
25	0.50	0.710	2.08	2.10	97.90
35	1.00	0.500	4.55	4.60	95.40
45	1.50	0.355	12.11	12.25	87.75
60	2.00	0.250	34.68	35.08	64.92
80	2.50	0.180	74.82	75.68	24.32
120	3.00	0.125	95.31	96.41	3.59
170	3.50	0.090	96.94	98.06	1.94
200	3.75	0.075	97.03	98.15	1.85
230	4.00	0.063	97.94	99.07	0.93
PAN			98.85	99.99	0.01

PHI(5): 1.03 PHI(16): 1.58 PHI(25): 1.78
PHI(50): 2.18 PHI(75): 2.49 PHI(84): 2.70
PHI(95): 2.97

SIEVE LOSS(g): 0.01 SILT/CLAY: 1.85%
SKEWNESS: -0.336 KURTOSIS: 1.116

GRAPHIC METHOD

MEAN (PHI): 2.09 SORTING: 0.56
MEAN (mm) : 0.23 MEDIAN (mm): 0.22
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.10 SORTING: 0.64
MEAN (mm) : 0.23

DATA FILE NAME: DB99-23#3.TAB

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

SAMPLE NO.: DB99-23 S#4
SAMPLE ELEV. (FT. NGVD):
SAMPLE DEPTH (FT.): 15.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 97.46
SAMPLE WEIGHT AFTER WASH (GRAMS): 95.75

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	0.03	0.03	99.97
10	-1.00	2.000	0.18	0.18	99.82
14	-0.50	1.400	0.45	0.46	99.54
18	0.00	1.000	0.89	0.91	99.09
25	0.50	0.710	1.57	1.61	98.39
35	1.00	0.500	3.57	3.66	96.34
45	1.50	0.355	9.16	9.40	90.60
60	2.00	0.250	24.17	24.80	75.20
80	2.50	0.180	56.68	58.16	41.84
120	3.00	0.125	91.59	93.98	6.02
170	3.50	0.090	95.47	97.96	2.04
200	3.75	0.075	95.60	98.09	1.91
230	4.00	0.063	96.55	99.07	0.93
PAN			97.44	99.98	0.02

PHI(5): 1.12 PHI(16): 1.71 PHI(25): 2.00
PHI(50): 2.38 PHI(75): 2.74 PHI(84): 2.86
PHI(95): 3.13

SIEVE LOSS(g): 0.02 SILT/CLAY: 1.91%
SKEWNESS: -0.445 KURTOSIS: 1.126

GRAPHIC METHOD

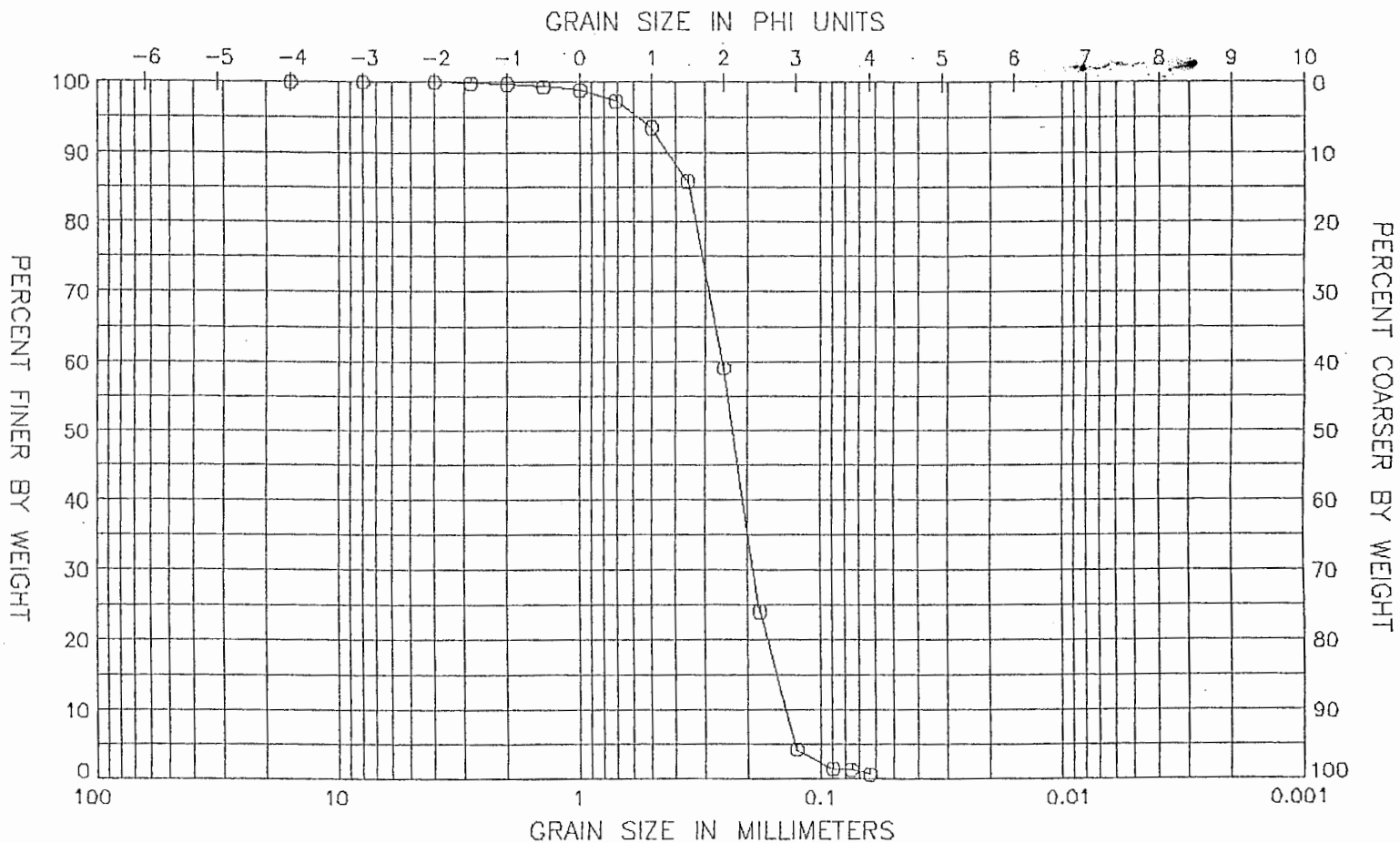
MEAN (PHI): 2.24 SORTING: 0.57
MEAN (mm): 0.21 MEDIAN (mm): 0.19
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 2.28 SORTING: 0.64
MEAN (mm): 0.21

DATA FILE NAME: DB99-23#4.TAB

GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999

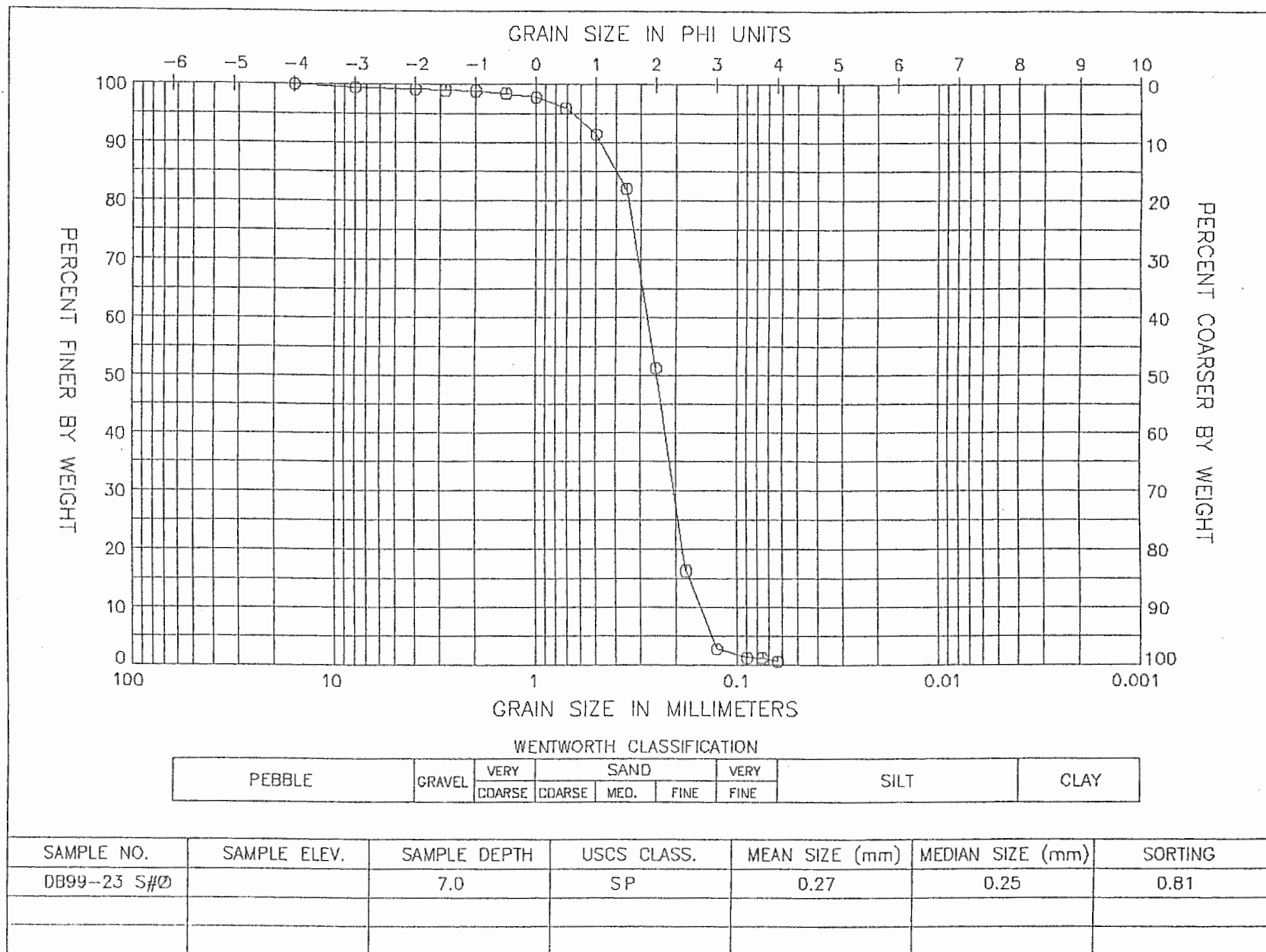


WENTWORTH CLASSIFICATION

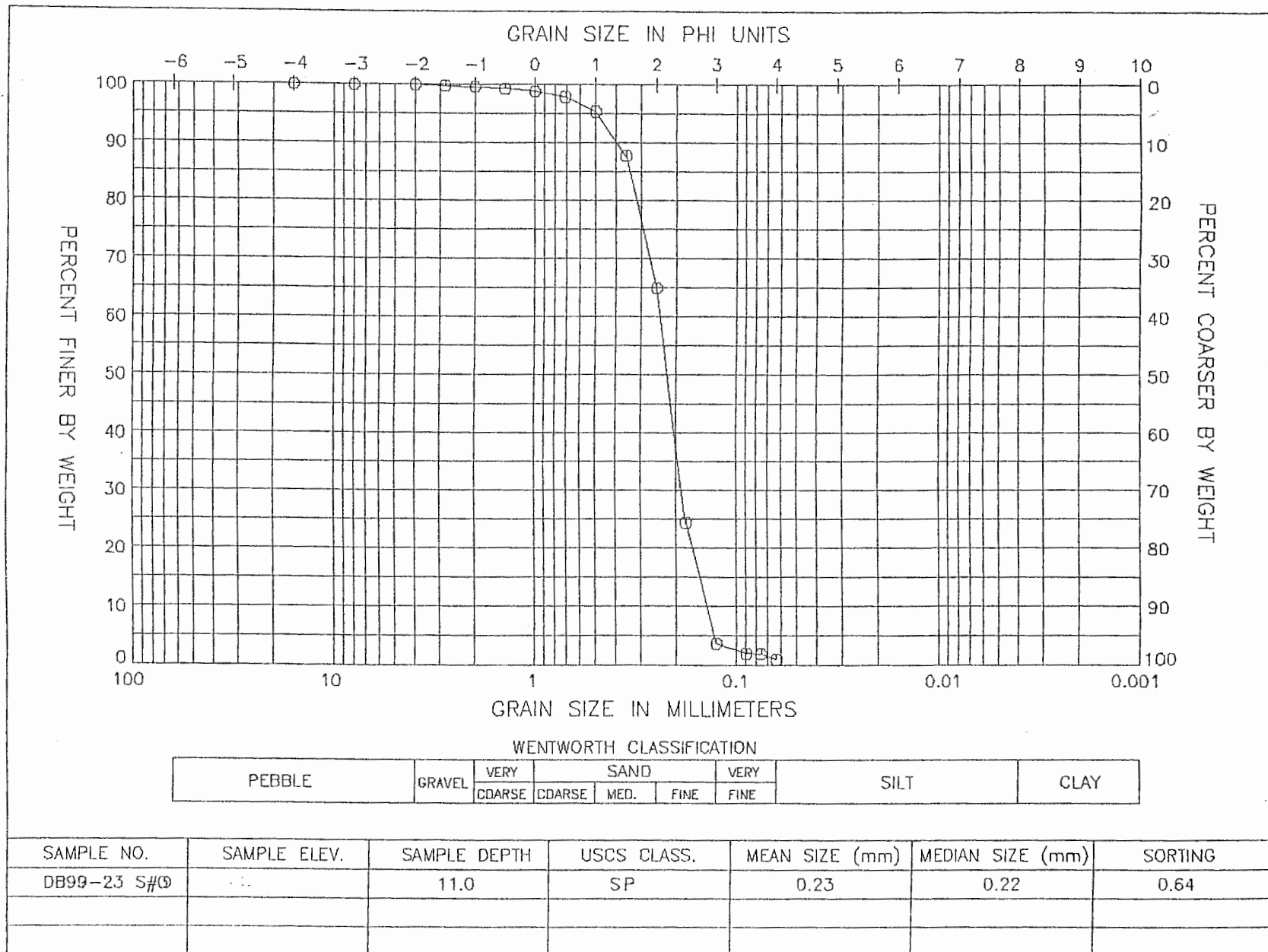
PEBBLE	GRAVEL	VERY	SAND		VERY	SILT	CLAY
		COARSE	COARSE	MED. FINE	FINE		

SAMPLE NO.	SAMPLE ELEV.	SAMPLE DEPTH	USCS CLASS.	MEAN SIZE (mm)	MEDIAN SIZE (mm)	SORTING
DB99-23 S#0		3.0	SP	0.24	0.23	0.68

GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999



GRAIN SIZE DISTRIBUTION CURVE
DELRAY BEACH VIBRACORES 1999



GRAIN SIZE DISTRIBUTION CURVE
 DELRAY BEACH VIBRACORES 1999

