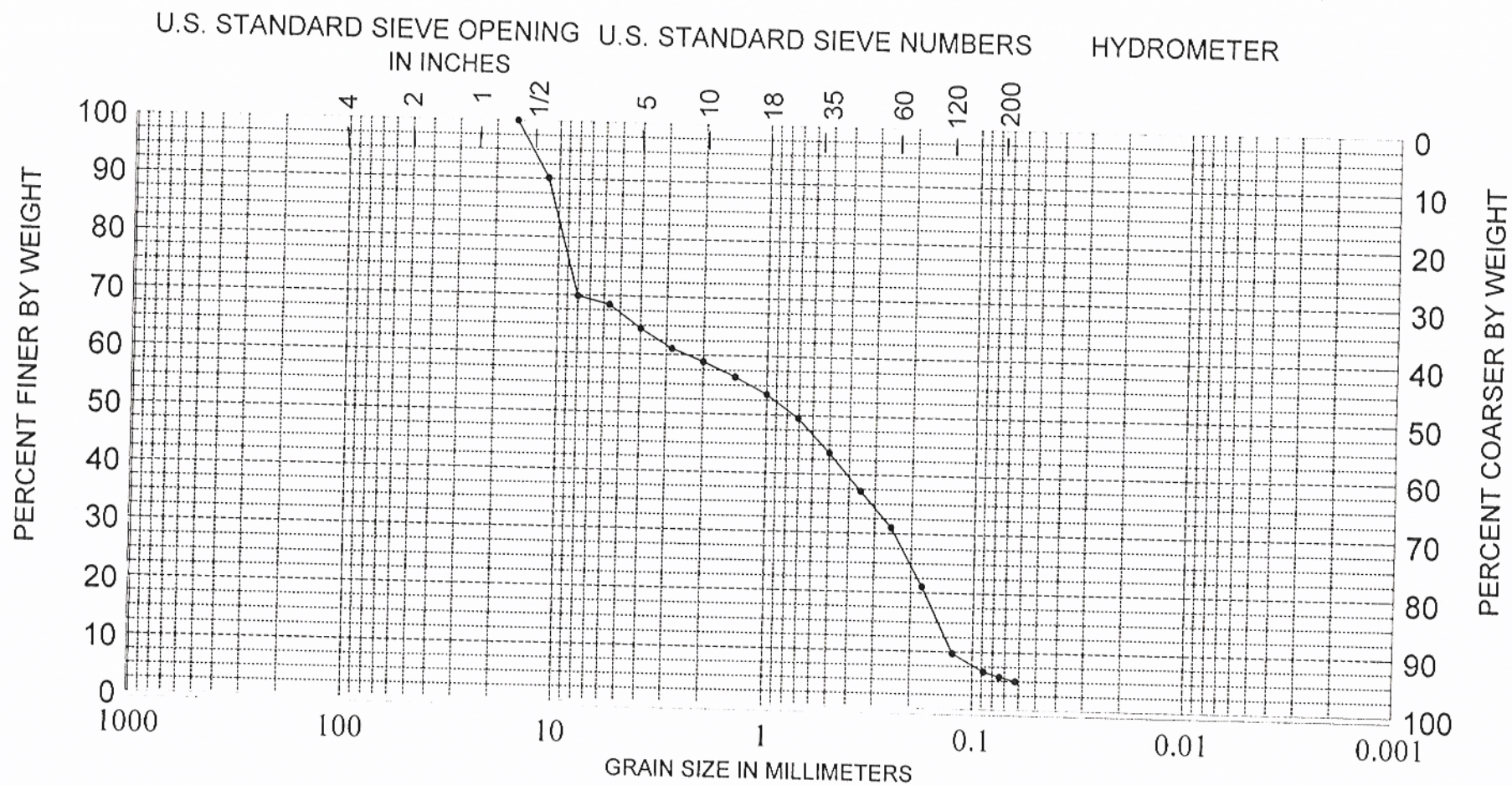


DRILLING LOG		DIVISION		INSTALLATION		SHEET 1 OF 1	
1. PROJECT Dade County Deepwater Geotechnical Study				10. SIZE AND TYPE OF BIT 4" VIBRACORE			
2. LOCATION (Coordinates or Station) X=958391.200 Y=526179.100				11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLLW			
3. DRILLING AGENCY SEA, Inc./Alpine OSS				12. MANUFACTURER'S DESIGNATION OF DRILL PNEUMATIC VIBRACORE			
4. HOLE NO. (As shown on drawing title and file number) DCV 99-13				13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN disturbed: 2 undisturbed: 0			
5. NAME OF DRILLER Alpine OSS				14. TOTAL NUMBER OF CORE BOXES			
6. DIRECTION OF HOLE <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED				15. ELEVATION GROUND WATER			
7. THICKNESS OF BURDEN 0 Ft.				16. DATE HOLE STARTED COMPLETED 12-11-99 12-11-99			
8. DEPTH DRILLED INTO ROCK 0 Ft.				17. ELEVATION TOP OF HOLE -155.8 Ft.			
9. TOTAL DEPTH OF HOLE 10.3 Ft.				18. TOTAL CORE RECOVERY FOR BORING 55 %			
				19. SIGNATURE OF G. ZARILLO, SEA, INC			
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS (Description)	CORE REC %	SAMPLE NUMBER	REMARKS	
-155.8	.0		Pale brown carbonate sand and rock fragments, compacted. 10 YR 8/2 (GW-SW)			-155.8	0
-157.9	2.1				1.0	Large cobble of reef rock, 1.4-1.8 ft.	
-158.4	2.6		Pale brown carbonate sand and rock fragments. 10 YR 8/2 (SW-GW)	100			2.5
-159.7	3.9		Pale brown-greenish brown medium carbonate sand. 10 YR 7/3 (SP)		4.0		
-161.5	5.7		Pale brown fine carbonate sand, rock fragments. 10 YR 8/2 (SP-SW)			-161.5	5
				0			7.5
-166.1	10.3		Penetration depth			-166.1	10
							12.5
							15
							17.5
							20
						Core sample is 50+ % lithified to 5.0 ft.	22.5

Sample DCV-13-1.0

Sieve	Size (mm)	Phi size	Wt	Wt %	Cuml %	Folk	Statistics phi mm	
5/8	16.00	-4.00	0.00	0.00	0.00			
1/2	11.31	-3.50	3.49	9.84	9.84			
5/16	8.00	-3.00	7.20	20.29	30.14			
1/4	5.66	-2.50	0.51	1.43	31.57			
5	4.00	-2.00	1.40	3.94	35.50	5% :	-3.75	13.42
7	2.83	-1.50	1.23	3.46	38.96	16% :	-3.35	10.18
10	2.00	-1.00	0.77	2.17	41.13	25% :	-3.13	8.73
14	1.41	-0.50	0.89	2.50	43.64	50% :	0.44	0.74
18	1.00	0.00	1.01	2.85	46.49	75% :	2.30	0.20
25	0.71	0.50	1.41	3.99	50.48	84% :	2.72	0.15
35	0.50	1.00	2.08	5.88	56.35	95% :	4.05	0.06
45	0.35	1.50	2.28	6.44	62.79			
60	0.25	2.00	2.19	6.16	68.96	Med.	0.44	0.74
80	0.18	2.50	3.54	9.99	78.94	Mean	-0.06	1.04
120	0.13	3.00	4.02	11.35	90.29	St Dev.	2.70	
170	0.09	3.50	1.10	3.10	93.39	Skew	-0.16	
200	0.07	3.75	0.29	0.81	94.20	Kurt.	0.59	
230	0.06	4.00	0.26	0.73	94.94			
Pan			0.27	0.76	95.70			
Total			33.93	95.70	95.70			
						Moment	Statistics	
							Phi	mm
Cu =	19.00	Gravel			34 %	Mean	-0.22	1.16
		Coarse Sand			8 %	St. Dev.	2.64	0.16
		ed. Sand			18 %	Skewness	-0.10	
Cc =	0.19	Fine Sand			35 %	Kurtosis	1.33	
		Silt/Clay			5 %			

SEA, INC.



PHI

-6.0	-5.0	-4.0	-3.0	-2.0	-1.0	-0.0	1.0	2.0	3.0	4.0	5.0
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COBBLES

GRAVEL

SAND

SILT OR CLAY

COARSE

FINE

COARSE

MEDIUM

FINE

SAMPLE NO.

ELEV.

CLASSIFICATION

Well graded gravel and sand (SW)

PROJECT Dade County Deepwater Study

AREA Dade Co., Florida

BORING NO. DCV-13

DATE March, 2000

1.0

-156.8

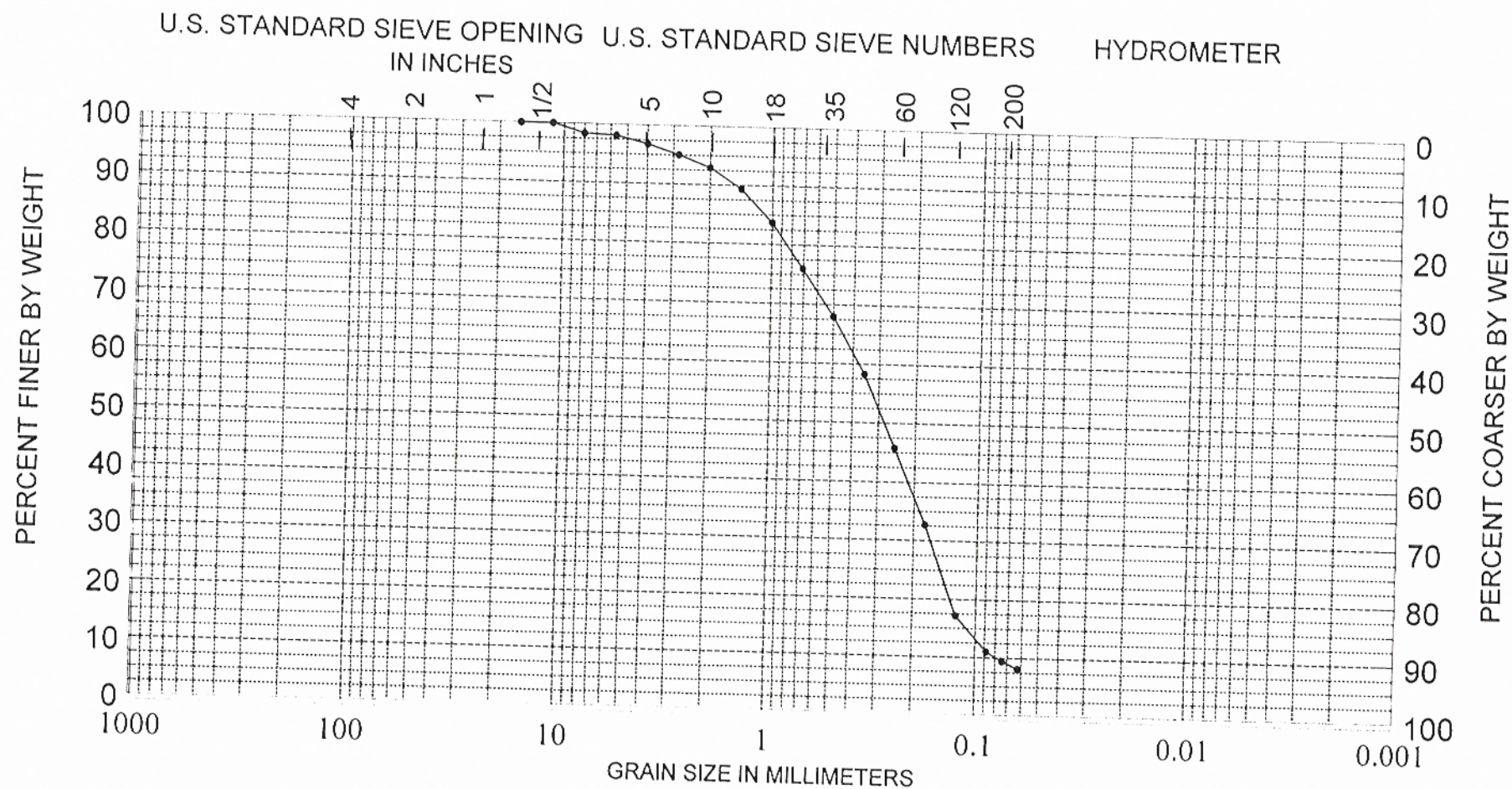
Sediment Analysis Data Sheet

Sample DCV-13-4.0

Sieve	Size (mm)	Phi size	Wt	Wt %	Cuml %	Folk	Statistics phi mm	
	16.00	-4.00	0.00	0.00	0.00			
	11.31	-3.50	0.00	0.00	0.00			
	8.00	-3.00	0.64	1.64	1.64			
	5.66	-2.50	0.08	0.20	1.84			
5	4.00	-2.00	0.53	1.36	3.20	5% :	-1.49	2.80
7	2.83	-1.50	0.68	1.74	4.94	16% :	-0.03	1.02
10	2.00	-1.00	0.81	2.08	7.02	25% :	0.56	0.68
14	1.41	-0.50	1.42	3.62	10.64	50% :	1.83	0.28
18	1.00	0.00	2.20	5.64	16.28	75% :	2.75	0.15
25	0.71	0.50	3.01	7.71	24.00	84% :	3.10	0.12
35	0.50	1.00	3.14	8.02	32.02	95% :	4.60	0.04
45	0.35	1.50	3.79	9.69	41.71	Med.	1.83	0.28
60	0.25	2.00	4.88	12.48	54.19	Mean	1.63	0.32
80	0.18	2.50	5.11	13.09	67.28	St Dev.	1.70	
120	0.13	3.00	6.08	15.55	82.83	Skew	-0.14	
170	0.09	3.50	2.39	6.12	88.95	Kurt.	1.14	
200	0.07	3.75	0.63	1.61	90.56			
230	0.06	4.00	0.48	1.24	91.80			
Pan			0.19	0.50	92.30			
Total			36.06	92.30	92.30			

		Moment		Statistics	
				Phi	mm
Cu =	4.48	Gravel	3 %	Mean	1.58 0.33
		Coarse Sand	4 %	St. Dev.	1.56 0.34
		ed. Sand	30 %	Skewness	-1.00
Cc =	0.88	Fine Sand	55 %	Kurtosis	3.54
		Silt/Clay	8 %		

SEA, INC.



PHI

-6.0 -5.0 -4.0 -3.0 -2.0 -1.0 -0.0 1.0 2.0 3.0 4.0 5.0

COBBLES

GRAVEL

SAND

SILT OR CLAY

COARSE

FINE

COARSE

MEDIUM

FINE

SAMPLE NO.

ELEV.

CLASSIFICATION

Medium to fine sand (SP)

PROJECT Dade County Deepwater Study

AREA Dade Co., Florida

BORING NO. DCV-13

DATE March, 2000

4.0

-159.8