APPENDIX E

Characterisitcs of Littoral Drift and of Borrow Materials

Table E-1. Characteristics of Littoral Drift Material, Beach Erosion Control and Hurricane Surge Protection Project, Dade County, Florida. Example: D_{75} means, "75% of sample grains have diameter less than: (mm)."

Profile Line, Sample No.	Elevation Ft. MLW	D_{75} (mm)	D_{50} (mm)	D_{25} (mm)	So $\sqrt{D_{75}/D_{25}}$	% > 0.7 mm	% < 0.125 mm
Line 1, #1	+7.2	0.35	0.23	0.18	1.39	10	1
Line 1, #2	+3.4	1.6	0.44	0.30	2.31	25	1
Line 1, #3	-0.2	0.40	0.27	0.19	1.45	12	3
Line 1, #4	-4.7	0.17	0.14	0.11	1.24	1	40
Line 4, #1	+3.4	0.29	0.22	0.18	1.27	1	1
Line 4, #2	+0.3	0.32	0.22	0.17	1.37	3	3
Line 4, #3	-5.3	0.30	0.20	0.16	1.37	2	13
Line 7, #1	+7.6	0.53	0.44	0.34	1.25	15	1
Line 7, #2	+3.1	0.45	0.40	0.31	1.20	7	1
Line 7, #3	+0.2	0.80	0.50	0.40	1.41	30	1
Line 7, #4	-5.0	0.28	0.22	0.17	1.28	2	11
Line 10A #1	+8.6	0.63	0.45	0.36	1.32	22	0
Line 10A #2	+4.3	0.74	0.46	0.31	1.55	28	0
Line 10A #3	0.0	0.99	0.70	0.52	1.38	50	0
Line 10A #4	-5.6	0.23	0.17	0.13	1.33	1	25
Line 13, #1	+7.6	0.90	0.74	0.51	1.33	55	0
Line 13, #2	+4.0	0.74	0.44	0.31	1.55	28	0
Line 13, #3	+0.6	0.94	0.60	0.35	1.64	42	1
Line 13, #4	-5.4	0.27	0.18	0.12	1.50	1	30
Line 16, #1	+9.2	0.65	0.47	0.37	1.33	21	1
Line 16, #2	+3.9	1.24	0.90	0.67	1.36	72	0
Line 16, #3	-3.3	0.33	0.24	0.18	1.35	6	13
Line 19, #1	+3.0	0.38	0.30	0.25	1.23	2	0
Line 19, #2	-0.4	1.00	0.60	0.40	1.58	42	0
Line 19, #3	-6.0	0.95	0.63	0.40	1.54	45	0
Line 19 D1, #1	+7.6	0.60	0.48	0.36	1.29	15	1
Line 19 D1, #2	+4.1	0.74	0.53	0.44	1.30	29	0
Line 19 D1, #3	+0.2	1.70	1.15	0.80	1.46	85	0
Line 19 D2, #4	-5.2	0.40	0.28	0.20	1.41	4	8

Table E-2. Characteristics of Offshore Overburden Samples, Beach Erosion Control and Hurricane Surge Protection Project, Dade County, Florida. Example: D_{75} means, "75% of sample grains have diameter less than: (mm)."

Hydrosurvey's Sample No.	D_{75} (mm)	D_{50} (mm)	D_{25} (mm)	S_0 $\sqrt{D_{75}/D_{25}}$	% > 0.7 mm	% < 0.125 mm
1	1.58	1.18	0.72	1.48	78	0
2	0.78	0.42	0.28	1.67	29	2
3	0.80	0.45	0.33	1.56	29	0
4	0.65	0.30	0.20	1.80	23	6
5	1.00	0.56	0.34	1.71	40	1
6	1.01	0.69	0.41	1.57	49	1
7	1.02	0.65	0.41	1.58	46	1
8	0.60	0.31	0.21	1.69	20	2
9	0.51	0.28	0.19	1.64	16	4
10	0.70	0.45	0.29	1.55	25	2
11	0.89	0.56	0.24	1.93	40	2
12	0.80	0.41	0.24	1.83	30	3
13	0.22	0.16	0.12	1.35	6	21
14	0.90	0.46	0.25	1.90	34	2
15	0.65	0.34	0.20	1.80	23	1
16	1.10	0.60	0.29	1.95	42	2
18	0.90	0.51	0.27	1.83	37	1
19	1.00	0.60	0.25	2.00	42	3
20	0.59	0.37	0.24	1.57	17	1
21	1.22	0.75	0.40	1.75	55	0

Table E-3. Characteristics of Offshore Vibracore Samples.

Hole No. CB-DAC-1

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS
1. PROJECT Dade County Beach Restoration		10. SIZE AND TYPE OF BIT Vibracore 3-1/2"	
2. LOCATION (Coordinates or Station) X-796,542 Y-696,576		11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW	
3. DRILLING AGENCY Alpine Geophysical (Contract)		12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-1		13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED	UNDISTURBED
5. NAME OF DRILLER J. Katsolis		14. TOTAL NUMBER CORE BOXES 1	
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.		15. ELEVATION GROUND WATER Tidal	
		16. DATE HOLE: STARTED 5-23-74	COMPLETED 5-23-74
7. THICKNESS OF OVERBURDEN		17. ELEVATION TOP OF HOLE -37.0	
8. DEPTH DRILLED INTO ROCK		18. TOTAL CORE RECOVERY FOR BORING 70 %	
9. TOTAL DEPTH OF HOLE 10'		19. GEOLOGIST: T. M. THORNTON	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-37.0	0.0					
-47.0	10.0		SAND, calcareous, medium to fine grain with some coarse shell fragments, scattered large shells, numerous coral fragments to cobble size, tan gray, slightly silty (SW-SM)		1	3-1/2" Vibracore

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PROJECT Dade County Beach Restoration HOLE NO. CB-DAC-1

Hole No. CB-DAC-2

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X-796207 Y-893524	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-2	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED: UNDISTURBED:
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE: STARTED 5-23-74; COMPLETED 5-23-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE -36.7
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING 82 %
9. TOTAL DEPTH OF HOLE 19.8'	19. ~~TOTAL CORE RECOVERY FOR BORING~~ GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-36.7	0.0					
			Sand, calcareous, little quartz, fine to medium grain, some coarse fragments, some small shells, tan, gray (SP)		1	3-1/2" Vibracore
-50.7	14.0		Below 14' fine quartz, very slightly silty, brown (SP)		2	
-54.7	18.0		silty, dark brown (SM)			
-56.5	19.8		Top 1' removed for pollution testing			

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PROJECT Dade County Beach Restoration HOLE NO. CB-DAC-2

Hole No. CB-DAC-3

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Pestoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X=796,440 Y=588,590	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-3	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE: STARTED 5-23-74 / COMPLETED 5-23-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE -44.2
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING 100 %
9. TOTAL DEPTH OF HOLE 3.7'	19. ~~NAME OF INSPECTOR~~ GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-44.2	0.0					
-47.9	3.7		Sand, calcareous, fine to coarse, slightly silty, gravel size shell fragments, numerous pebble to cobble size coral fragments, tan gray (SW-SM) Hit rock at 3.7'		1	Vibracore 3-1/2"

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PROJECT Dade County Beach Pestoration

HOLE NO. CB-DAC-3

Hole No. CB-DAC-4

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X=796,300 Y=583,556	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-4	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED 5-23-74 / COMPLETED 5-23-74
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE -40.4
9. TOTAL DEPTH OF HOLE 19.8'	18. TOTAL CORE RECOVERY FOR BORING 72%
	19. ~~NAME OF DRILLER~~ GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-40.4	0.0					
			Sand, calcareous, fine to coarse, mostly medium, slightly silty, few shells and coral fragments to cobble size, light gray (SW-SM)		1	Vibracore 3-1/2"
-51.4	11.0		Below 11' sand quartz, fine grain, some medium to coarse slightly silty, gray, numerous sandstone nodules and lenses (SP-SM)		2	
-60.2	19.8					
			Top 1 foot removed for pollution testing.			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT Dade County Beach Restoration

HOLE NO. CB-DAC-4

Hole No. CB-DAC-5

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X 796 493 Y 580 531	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-5	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE [X] VERTICAL [ ] INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE — STARTED 5-24-74 — COMPLETED 5-24-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE -42.9
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING 87 %
9. TOTAL DEPTH OF HOLE 18.8'	19. GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-42.9	0.0					
			Sand, calcareous, composed of fine to coarse shell fragments, scattered small shells, slightly silty light gray to tan gray (SP-SM)		1	Vibracore 3-1/2"
			Coral nodules 7' to 8'			
-52.9	10.0		Below 10.0' sand, fine to medium quartz slightly silty, numerous hard sandstone lenses and fragments, light brown to light gray (SP-SM)		2	
-61.7	18.8		Hit rock.			
			Top 1' removed for pollution testing.			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

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PROJECT Dade Co. Beach Restoration | HOLE NO. CB-DAC-5

Hole No. CB-DAC-6

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X=797,684 Y=569,593	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-6	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE: STARTED 5-24-74 / COMPLETED 5-24-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE -53.2
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING 88 %
9. TOTAL DEPTH OF HOLE 19.8'	19. ~~XXXXXXXXXXXXXXXXXX~~ GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-53.2	0.0					
			SAND, calcareous, some quartz, fine to medium grain, some coarse shell fragments, scattered shell, light gray, slightly silty (SP-SM)		1	3-1/2" Vibracore
-73.0	19.8					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT Dade County Beach Restoration HOLE NO. CB-DAC-6

Hole No. CB-DAC-7

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X = 796,214 Y = 568,537	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-7	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE (X) VERTICAL ( ) INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE: STARTED 5-24-74 / COMPLETED 5-24-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE -44.7
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING 90 %
9. TOTAL DEPTH OF HOLE 19.6'	19. GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-44.7	0.0					
			Sand, calcareous, fine grain, slightly silty, some medium to coarse shell fragments, light gray (SP-SM)		1	
-53.7	9.0		9' to 12' less shell fragments, some quartz			
-56.7	12.0		12' to 15' quartz sand, fine to medium grain, tan to brown			
-59.7	15.0					
			Sand, silty, organic, dark brown, few shells and pebble size coral fragments (SM)		2	
-64.3	19.6					
			Top 1' removed for pollution test.			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

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PROJECT Dade Co. Beach Restoration | HOLE NO CB-DAC-7

Hole No. CB-DAC-8

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X=792,228 Y=567,655	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-8	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED: UNDISTURBED:
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE: STARTED 5-24-74 COMPLETED 5-24-74
	17. ELEVATION TOP OF HOLE -24.1
7. THICKNESS OF OVERBURDEN	18. TOTAL CORE RECOVERY FOR BORING 93 %
8. DEPTH DRILLED INTO ROCK	19. ~~TOTAL NUMBER CORE BOXES~~ GEOLOGIST: T. M. THORNTON
9. TOTAL DEPTH OF HOLE 10.0'	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-24.1	0.0					
-30.1	6.0		SAND, calcareous and quartz, fine to coarse, scattered limestone nodules, gray slightly silty (SP-SM)		1	3-1/2" Vibracore
-34.1	10.0		SANDSTONE, composed of quartz and shell fragments, hard		2	

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT Dade County Beach Restoration

HOLE NO. CB-DAC-8

Hole No. CB-DAC-9

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X = 796,837 Y = 564,705	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-9	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE [X] VERTICAL [ ] INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE — STARTED 5-24-74 — COMPLETED 5-24-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE -45.4
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING 99 %
9. TOTAL DEPTH OF HOLE 19.8'	19. GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-45.4	0.0					
			SAND, calcareous, fine to medium, some odor to 2', mostly shell fragments to 12', light gray to buff, (SP)		1	3-1/2" Vibracore
-57.4	12.0		Below 12' sand, fine, silty quartz, gray, numerous nodules and lenses of hard sandstone (SM)		2	
-65.2	19.8					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

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PROJECT Dade County Beach Restoration

HOLE NO. CB-DAC-9

Hole No. CB-DAC-10

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT: Dade County Beach Restoration
2. LOCATION (Coordinates or Station): X = 796,676 Y = 562,612
3. DRILLING AGENCY: Alpine Geophysical (Contract)
4. HOLE NO. (As shown on drawing title and file number): CB-DAC-10
5. NAME OF DRILLER: J. Katsolis
6. DIRECTION OF HOLE: [X] VERTICAL [ ] INCLINED ____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE: 19.8'
10. SIZE AND TYPE OF BIT: Vibracore 3-1/2"
11. DATUM FOR ELEVATION SHOWN (TBM or MSL): MLW
12. MANUFACTURER'S DESIGNATION OF DRILL: Vibracore
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED: ; UNDISTURBED:
14. TOTAL NUMBER CORE BOXES: 1
15. ELEVATION GROUND WATER: Tidal
16. DATE HOLE: STARTED 5-25-74; COMPLETED 5-25-74
17. ELEVATION TOP OF HOLE: -44.6
18. TOTAL CORE RECOVERY FOR BORING: 86 %
19. GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-44.6	0.0					
			SAND, calcareous, medium to fine grain with some coarse shell fragments, few scattered shell, light tan, gray, slightly silty (SP-SM)		1	3-1/2" Vibracore
-64.4	19.8					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT: Dade County Beach Restoration

HOLE NO. CB-DAC-10

Hole No. CB-DAC-11

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X=796,706 Y=560,682	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-11	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE: STARTED 5-26-74 / COMPLETED 5-26-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE -44.6
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING 91 %
9. TOTAL DEPTH OF HOLE 19.8'	19. GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-44.6	0.0					
			SAND, fine to medium, grain calcareous, some quartz and coarse shell fragments in upper 10', few medium shells and coral fragments, tan gray, slightly silty (SP-SM)		1	3-1/2" Vibracore
-61.6	17.0		Large shell scattered below 17'			
-64.4	19.8					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

E-10

PROJECT Dade County Beach Restoration

HOLE NO. CB-DAC-11

Hole No. CB-DAC-12

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X= 796,640 Y=558,655	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-12	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE [X] VERTICAL [ ] INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE — STARTED 5-26-74 — COMPLETED 5-26-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE -48.5
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING 88 %
9. TOTAL DEPTH OF HOLE 19.8'	19. ~~SIGNATURE OF INSPECTOR~~ GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-48.5	0.0					
			SAND, calcaroues, little quartz, fine to medium grained with coarse shell fragments, few coral fragments scattered shell, tan, gray, slightly silty (SP-SM)		1	3-1/2" Vibracore
			Less shell fragments below 8'			
-50.5	12.0		Below 12' sand, calcareous some quartz, fine grained, numerous nodules of hard sandstone, brownish gray slightly silty (SP-SM)		2	
-68.3	19.8					
			Top 1 foot removed for pollution testing			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT Dade County Beach Restoration

HOLE NO. CB-DAC-12

Hole No. CB-DAC-13

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X= 796,936 Y=556,640	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-13	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED: UNDISTURBED:
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE: STARTED 5-25-74 COMPLETED 5-25-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE -45.5
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING 93 %
9. TOTAL DEPTH OF HOLE 19.8'	19. GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-45.5	0.0					
			SAND, calcareous, some quartz, fine to medium grain, a little coarse shell fragments, scattered shells and pebble size coral fragments, light gray, slightly silty (SP-SM)		1	3-1/2"Vibracore
-65.3	19.8					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

E-11

PROJECT Dade County Beach Restoration

HOLE NO. CB-DAC-13

Hole No. CB-DAC-14

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT: Dade County Beach Restoration
2. LOCATION (Coordinates or Station): X=797,155 Y=558,629
3. DRILLING AGENCY: Alpine Geophysical (Contract)
4. HOLE NO. (As shown on drawing title and file number): CB-DAC-14
5. NAME OF DRILLER: J. Katsolis
6. DIRECTION OF HOLE: [X] VERTICAL [ ] INCLINED ____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE: 14.8'
10. SIZE AND TYPE OF BIT: Vibracore 3-1/2"
11. DATUM FOR ELEVATION SHOWN (TBM or MSL): MLW
12. MANUFACTURER'S DESIGNATION OF DRILL: Vibracore
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED ; UNDISTURBED
14. TOTAL NUMBER CORE BOXES: 1
15. ELEVATION GROUND WATER: Tidal
16. DATE HOLE: STARTED 5-26-74 ; COMPLETED 5-26-74
17. ELEVATION TOP OF HOLE: -43.2
18. TOTAL CORE RECOVERY FOR BORING: 100 %
19. ~~XXXXXXXXXXXXXXXXXX~~ GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-43.2	0.0					
			SAND, calcareous, fine to medium grain with some coarse shell fragments, light gray (SP)		1	3-1/2" Vibracore
			Very shelly 13 to 14'			
-58.0	14.8					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT: Dade County Beach Restoration

HOLE NO. CB-DAC-14

Hole No. CB-DAC-15

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X= 797,016 Y= 551,654	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-15	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE [X] VERTICAL [ ] INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE: STARTED 5-26-74 / COMPLETED 5-26-74
	17. ELEVATION TOP OF HOLE -38.9
7. THICKNESS OF OVERBURDEN	18. TOTAL CORE RECOVERY FOR BORING 94 %
8. DEPTH DRILLED INTO ROCK	19. ~~TOTAL CORE RECOVERY FOR SECTION~~
9. TOTAL DEPTH OF HOLE 19.8'	GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-38.9	0.0					
			SAND, calcareous, little quartz, fine to medium grain, coarse shell fragments to 15', few small shells, light gray, slightly silty (SP-SM)		1	3-1/2" Vibracore
-58.7	19.8					
			Top 1' removed for pollution testing			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT Dade County Beach Restoration

HOLE NO. CB-DAC-15

Hole No. CB-DAC-16

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT: Dade County Beach Restoration	10. SIZE AND TYPE OF BIT: Vibracore 3-1/2"
2. LOCATION (Coordinates or Station): X = 796,598 Y = 549,541	11. DATUM FOR ELEVATION SHOWN (TBM or MSL): MLW
3. DRILLING AGENCY: Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL: Vibracore
4. HOLE NO. (As shown on drawing title and file number): CB-DAC-16	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER: J. Katsolis	14. TOTAL NUMBER CORE BOXES: 1
6. DIRECTION OF HOLE: ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER: Tidal
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED 5-26-74 COMPLETED 5-26-74
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE: -41.4
9. TOTAL DEPTH OF HOLE: 19.8'	18. TOTAL CORE RECOVERY FOR BORING: 97%
	19. GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-41.4	0.0					
			SAND, calcareous, some quartz, fine to medium grain with some coarse shell fragments, scattered shells, a few pebble size coral fragments, light gray to tan gray (SP)		1	3-1/2" Vibracore
-47.4	6.0		6' to 10' more than half of material is shell fragments			
-51.4	10.0		shelly zone 10' to 10.5'			
-51.9	10.5		10.5' to 19.8' clean sand, fine to medium, calcareous and quartz, scattered pebbles and cobble size nodules of hard sandstone, slightly silty (SP-SM)		2	
-61.2	19.8					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT: Dade County Beach Restoration

HOLE NO. CB-DAC-16

Hole No. CB-DAC-17

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X=796,982 Y=547,644	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-17	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED — UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE — STARTED 5-26-74 — COMPLETED 5-26-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE -39.7
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING 92 %
9. TOTAL DEPTH OF HOLE 19.8'	19. GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-39.7	0.0					
			SAND, calcareous and quartz, fine to medium with some coarse shell fragments, few cobble size coral fragments, tan, gray (SP)		1	3-1/2" Vibracore
-50.7	11.0		Fine grained below 11' slightly silty (SP-SM)			
-54.7	15.0		shelly 14' to 15'		2	
			Sandstone lenses and fragments below 15'			
-59.5	19.8					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

E-13

PROJECT Dade County Beach Restoration

HOLE NO. CB-DAC-17

Hole No. CB-DAC-18

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X= 798,123 Y= 547,415	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-18	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED: — UNDISTURBED:
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED 5-26-74 — COMPLETED 5-26-74
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE -59.1
9. TOTAL DEPTH OF HOLE 19.8'	18. TOTAL CORE RECOVERY FOR BORING 87 %
	19. ~~SIGNATURE OF INSPECTOR~~ GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-59.1	0.0					
			SAND, calcareous, little quartz, fine to medium grain, few shells, occasional coral fragments, light tan gray very silty (SM)		1	3-1/2" Vibracore
-78.9	19.8					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT Dade County Beach Restoration

HOLE NO. CB-DAC-18

Hole No. CB-DAC-19

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) Y: 798,839 X: 546,627	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-19	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED ; UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE (X) VERTICAL ( ) INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE: STARTED 5-26-74; COMPLETED 5-26-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE -56.0
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING 88 %
9. TOTAL DEPTH OF HOLE 19.8'	19. GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-56.0	0.0					
			SAND, fine to medium, calcareous sand, some fine quartz, very few small shells and rock fragments, slight odor, light gray, silty (SM)		1	3-1/2" Vibracore
-75.8	19.8					
			Top 1 foot removed for pollution testing			

Hole No. CB-DAC-20

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT: Dade County Beach Restoration
2. LOCATION (Coordinates or Station): X-797,018 Y-545,587
3. DRILLING AGENCY: Alpine Geophysical (Contract)
4. HOLE NO. (As shown on drawing title and file number): CB-DAC-20
5. NAME OF DRILLER: J. Katsolis
6. DIRECTION OF HOLE: [X] VERTICAL [ ] INCLINED ____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE: 15'
10. SIZE AND TYPE OF BIT: Vibracore 3-1/2"
11. DATUM FOR ELEVATION SHOWN (TBM or MSL): MLW
12. MANUFACTURER'S DESIGNATION OF DRILL: Vibracore
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED ; UNDISTURBED
14. TOTAL NUMBER CORE BOXES: 1
15. ELEVATION GROUND WATER: Tidal
16. DATE HOLE: STARTED 5-27-74 COMPLETED 5-27-74
17. ELEVATION TOP OF HOLE: -41.6
18. TOTAL CORE RECOVERY FOR BORING: 87%
19. ~~XXXXXXXXXXXXXXXXXXXX~~ GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-41.6	0.0					
			SAND, calcareous, a little quartz, fine to medium, some coarse shell fragments small shells and coral fragments, light gray slightly silty (SP-SM)		1	3-1/2" Vibracore
-55.1	13.5		Below 13.5' lenses and nodules of hard quartz, sandstone, gray		2	
-56.6	15.0					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT: Dade County Beach Restoration

HOLE NO. CB-DAC-20

Hole No. CB-DAC-21

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X= 797,677 Y=543,632	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-21	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED 5-27-74 / COMPLETED 5-27-74
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE -43.3
9. TOTAL DEPTH OF HOLE 16.9'	18. TOTAL CORE RECOVERY FOR BORING 100 %
	19. GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-43.3	0.0					
			SAND, calcareous, little quartz, fine to medium grain some coarse shell fragments, few small shells, occasional pebble to cobble size fragments of coral and sandy limestone, light gray to tan gray, silty (SM)		1	3-1/2" Vibracore
-60.2	16.9					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT Dade County Beach Restoration

HOLE NO. CB-DAC-21

Hole No. CB-DAC-22B

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT: Dade County Beach Restoration
2. LOCATION (Coordinates or Station): X = 798,192 Y-539,656
3. DRILLING AGENCY: Alpine Geophysical (Contract)
4. HOLE NO. (As shown on drawing title and file number): CB-DAC-22B
5. NAME OF DRILLER: J. Katsolis
6. DIRECTION OF HOLE: ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE: 17.6'
10. SIZE AND TYPE OF BIT: Vibracore 3-1/2"
11. DATUM FOR ELEVATION SHOWN (TBM or MSL): MLW
12. MANUFACTURER'S DESIGNATION OF DRILL: Vibracore
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED: ; UNDISTURBED:
14. TOTAL NUMBER CORE BOXES: 1
15. ELEVATION GROUND WATER: Tidal
16. DATE HOLE: STARTED 5-27-74; COMPLETED 5-27-74
17. ELEVATION TOP OF HOLE: -45.8
18. TOTAL CORE RECOVERY FOR BORING: 100 %
19. ~~SIGNATURE OF INSPECTOR~~: GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-45.8	0.0		SAND, calcareous and quartz, fine to medium with coarse shell fragments and a few shells, light gray silty (SM)		1	3-1/2" Vibracore
-56.8	11.0		Less shell below 11' Less silty (SP-SM)			
-58.8	13.0		Scattered sandstone nodules and lenses below 13'		2	
-63.4	17.6					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT: Dade County Beach Restoration

HOLE NO. CB-DAC-22B

Hole No. CB-DAC-21

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT: Dade County Beach Restoration	10. SIZE AND TYPE OF BIT: Vibracore 3-1/2"
2. LOCATION (Coordinates or Station): X= 797,677 Y=543,632	11. DATUM FOR ELEVATION SHOWN (TBM or MSL): MLW
3. DRILLING AGENCY: Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL: Vibracore
4. HOLE NO. (As shown on drawing title and file number): CB-DAC-21	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER: J. Katsolis	14. TOTAL NUMBER CORE BOXES: 1
6. DIRECTION OF HOLE: [X] VERTICAL [ ] INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER: Tidal
	16. DATE HOLE: STARTED 5-27-74 COMPLETED 5-27-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE: -43.3
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING: 100 %
9. TOTAL DEPTH OF HOLE: 16.9'	19. TOTAL SAMPLES TAKEN: GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-43.3	0.0					
-60.2	16.9		SAND, calcareous, little quartz, fine to medium grain some coarse shell fragments, few small shells, occasional pebble to cobble size fragments of coral and sandy limestone, light gray to tan gray, silty (SM)		1	3-1/2" Vibracore

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT: Dade County Beach Restoration

HOLE NO. CB-DAC-21

Hole No. CB-DAC-21

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X= 797,677 Y=543,632	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-21	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE: STARTED 5-27-74 / COMPLETED 5-27-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE -43.3
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING 100 %
9. TOTAL DEPTH OF HOLE 16.9'	19. ~~TOTAL NUMBER OF CORE BOXES~~ GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-43.3	0.0					
			SAND, calcareous, little quartz, fine to medium grain some coarse shell fragments, few small shells, occasional pebble to cobble size fragments of coral and sandy limestone, light gray to tan gray, silty (SM)		1	3-1/2" Vibracore
-60.2	16.9					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT Dade County Beach Restoration

HOLE NO. CB-DAC-21

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT: Dade County Beach Restoration
2. LOCATION (Coordinates or Station): X: 798,192 Y: 539,656
3. DRILLING AGENCY: Alpine Geophysical (Contract)
4. HOLE NO. (As shown on drawing title and file number): CB-DAC-22B
5. NAME OF DRILLER: J. Katsolis
6. DIRECTION OF HOLE: ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE: 17.6'
10. SIZE AND TYPE OF BIT: Vibracore 3-1/2"
11. DATUM FOR ELEVATION SHOWN (TBM or MSL): MLW
12. MANUFACTURER'S DESIGNATION OF DRILL: Vibracore
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED: ; UNDISTURBED:
14. TOTAL NUMBER CORE BOXES: 1
15. ELEVATION GROUND WATER: Tidal
16. DATE HOLE: STARTED 5-27-74; COMPLETED 5-27-74
17. ELEVATION TOP OF HOLE: -45.8
18. TOTAL CORE RECOVERY FOR BORING: 100 %
19. ~~SIGNATURE OF INSPECTOR~~ GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-45.8	0.0					
			SAND, calcareous and quartz, fine to medium with coarse shell fragments and a few shells, light gray silty (SM)		1	3-1/2" Vibracore
-56.8	11.0		Less shell below 11' Less silty (SP-SM)			
-58.8	13.0		Scattered sandstone nodules and lenses below 13'		2	
-63.4	17.6					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT: Dade County Beach Restoration

HOLE NO. CB-DAC-22B

Hole No. CB-DAC-23

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X=798,970 Y=537,556	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-23	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED: UNDISTURBED:
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE: STARTED 5-27-74 COMPLETED 5-27-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE -47.2
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING 100 %
9. TOTAL DEPTH OF HOLE 15.0'	19. GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-47.2	0.0					
			Sand and shell fragments, calcareous, fine to coarse grain, scattered coral fragments and shells, light tan gray, slightly silty (SW-SM)		1	
-59.2	12.0		12' to 14' numerous lenses of hard sandstone and coral			
-61.2	14.0		14' to 15' sand with pebble size sandstone nodules		2	
-62.2	15.0					
			Top foot removed for pollution testing.			

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X = 798,963 Y = 531,778	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-24	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE: STARTED 5-27-74 / COMPLETED 5-27-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE -48.7
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING 74 %
9. TOTAL DEPTH OF HOLE 10.9'	19. ~~TOTAL NUMBER OF CORE BOXES~~ GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-48.7	0.0					
			SAND, calcareous, medium to coarse, numerous shell fragments, scattered shells and coral fragments to cobble size, tan gray (SP)		1	3-1/2" Vibracore
-58.2	9.5		Below 9.5' numerous sandstone lenses			
-59.6	10.9				2	

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT Dade County Beach Restoration

HOLE NO. CB-DAC-24

Hole No. CB-DAC-25

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 of 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X=799,303 Y=529,596	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-25	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE: STARTED 5-27-74 / COMPLETED 5-27-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE -47.7
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING 100 %
9. TOTAL DEPTH OF HOLE 16.9'	19. ~~XXXXXXXXXXXXXXXXXX~~ GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-47.7	0.0					
			SAND, calcareous, medium grain with some coarse shell fragments, scattered shells, pebble to cobble size coral fragments common, tan gray slightly silty (SP-SM)		1	3-1/2" Vibracore
-62.7	15.0		Below 15' numerous lenses of quartz sandstone, fine to medium grain, gray, hard			
-64.6	16.9					

Hole No. CB-DAC-26

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X = 799,245 Y = 527,753	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-26	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE: STARTED 5-27-74 / COMPLETED 5-27-74
	17. ELEVATION TOP OF HOLE -49.0
7. THICKNESS OF OVERBURDEN	18. TOTAL CORE RECOVERY FOR BORING 98 %
8. DEPTH DRILLED INTO ROCK	19. ~~XXXXXXXXXXXXXXXXXX~~ GEOLOGIST: T. M. THORNTON
9. TOTAL DEPTH OF HOLE 14.8'	

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-49.0	0.0					
			SAND, calcareous, fine to medium grain and coarse shell fragments, scattered shell, numerous coral fragments to cobble size, light buff (SP)		1	3-1/2" Vibracore
-58.0	9.0		Below 9' fine quartz sand, numerous pebble size sandstone nodules, few shell fragments, light gray slightly silty (SP-SM)		2	
-62.8	13.8					
-63.8	14.8		Nodular Sandstone			
			Top 1' removed for pollution testing			

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PROJECT Dade County Beach Restoration

HOLE NO. CB-DAC-26

Hole No. CB-DAC-25

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X=799,303 Y=529,596	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-25	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN — DISTURBED: — UNDISTURBED:
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE [X] VERTICAL [ ] INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
7. THICKNESS OF OVERBURDEN	16. DATE HOLE — STARTED 5-27-74 — COMPLETED 5-27-74
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE -47.7
9. TOTAL DEPTH OF HOLE 16.9'	18. TOTAL CORE RECOVERY FOR BORING 100 %
	19. ~~TOTAL NUMBER CORE BOXES~~ GEOLOGIST: T. H. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-47.7	0.0					
			SAND, calcareous, medium grain with some coarse shell fragments, scattered shells, pebble to cobble size coral fragments common, tan gray slightly silty (SP-SM)		1	3-1/2" Vibracore
-62.7	15.0		Below 15' numerous lenses of quartz sandstone, fine to medium grain, gray, hard			
-64.6	16.9					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

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PROJECT Dade County Beach Restoration

HOLE NO CB-DAC-25

Hole No. CB-DAC-26

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X= 799,245 Y=527,753	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-26	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE: STARTED 5-27-74 / COMPLETED 5-27-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE -49.0
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING 98 %
9. TOTAL DEPTH OF HOLE 14.8'	19. GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-49.0	0.0					
			SAND, calcareous, fine to medium grain and coarse shell fragments, scattered shell, numerous coral fragments to cobble size, light buff (SP)		1	3-1/2" Vibracore
-58.0	9.0		Below 9' fine quartz sand, numerous pebble size sandstone nodules, few shell fragments, light gray slightly silty (SP-SM)		2	
-62.8	13.8		Nodular Sandstone			
-63.8	14.8		Top 1' removed for pollution testing			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT Dade County Beach Restoration

HOLE NO. CB-DAC-26

Hole No. CB-DAC-28

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X: 797,838 Y: 574,764	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-28	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE: STARTED 5-24-74 / COMPLETED 5-24-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE -53.6
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING 100 %
9. TOTAL DEPTH OF HOLE 16.0'	19. GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-53.6	0.0					
			SAND, shell fragments and calcareous sand with a little fine quartz, scattered large shells and coral fragments, fine to medium to 1' and medium to coarse below 1' (SP)		1	3-1/2" Vibracore
-62.8	9.2		fine to medium below 9.2' slightly silty (SP-SM) Large shells 9.2' to 10'		2	
-68.6	15.0		Scattered pebble size sandstone nodules below 13'			
-69.6	16.0		Sandstone, moderately hard, slightly friable			

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE. (TRANSLUCENT)

PROJECT Dade County Beach Restoration

HOLE NO. CB-DAC-28

Hole No. CB-DAC-27

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) X=797,165 Y=584,633	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-27	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
7. THICKNESS OF OVERBURDEN	16. DATE HOLE: STARTED 5-23-74 / COMPLETED 5-23-74
8. DEPTH DRILLED INTO ROCK	17. ELEVATION TOP OF HOLE -42.8
9. TOTAL DEPTH OF HOLE 19.8'	18. TOTAL CORE RECOVERY FOR BORING 85 %
	19. GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-42.8	0.0					
			SAND, calcareous, little quartz, fine to medium grain with moderate amount of coarse shell fragments to 12', few coral cobbles light gray to tan gray silty (SM)		1	3-1/2" Vibracore
-62.6	19.8					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

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PROJECT Dade County Beach Restoration

HOLE NO. CB-DAC-27

Hole No. CB-DAC-29

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT: Dade County Beach Restoration
2. LOCATION (Coordinates or Station): X = 799,416 Y = 543,671
3. DRILLING AGENCY: Alpine Geophysical (Contract)
4. HOLE NO. (As shown on drawing title and file number): CB-DAC-29
5. NAME OF DRILLER: J. Katsolis
6. DIRECTION OF HOLE: [X] VERTICAL [ ] INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE: 10.6'
10. SIZE AND TYPE OF BIT: Vibracore 3-1/2"
11. DATUM FOR ELEVATION SHOWN (TBM or MSL): MLW
12. MANUFACTURER'S DESIGNATION OF DRILL: Vibracore
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
14. TOTAL NUMBER CORE BOXES: 1
15. ELEVATION GROUND WATER: Tidal
16. DATE HOLE: STARTED 5-27-74 COMPLETED 5-27-74
17. ELEVATION TOP OF HOLE: -61.0
18. TOTAL CORE RECOVERY FOR BORING: 100 %
19. ~~MANUFACTURER'S~~ GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-61.0	0.0					
			SAND, calcareous, fine to medium grain with some coarse shell fragments, few small shells, light tan gray silty (SM)		1	3-1/2" Vibracore
-67.0	6.0		Below 6' several lenses of coral			
-71.0	10.0		Hit coral at 10'			
-71.6	10.6					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT: Dade County Beach Restoration

HOLE NO. CB-DAC-29

Hole No. CB-DAC-30

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT: Dade County Beach Restoration
2. LOCATION (Coordinates or Station): X=797,904 Y=555,712
3. DRILLING AGENCY: Alpine Geophysical (Contract)
4. HOLE NO. (As shown on drawing title and file number): CB-DAC-30
5. NAME OF DRILLER: J. Katsolis
6. DIRECTION OF HOLE: [X] VERTICAL [ ] INCLINED ____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE: 19.8'
10. SIZE AND TYPE OF BIT: Vibracore 3-1/2"
11. DATUM FOR ELEVATION SHOWN (TBM or MSL): MLW
12. MANUFACTURER'S DESIGNATION OF DRILL: Vibracore
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED ; UNDISTURBED
14. TOTAL NUMBER CORE BOXES: 1
15. ELEVATION GROUND WATER: Tidal
16. DATE HOLE: STARTED 5-25-74 COMPLETED 5-25-74
17. ELEVATION TOP OF HOLE: -59.6
18. TOTAL CORE RECOVERY FOR BORING: 77 %
19. GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-59.6	0.0					
			SAND, calcareous, fine to medium, few shells fragments and small shells, light tan gray, silty (SM)		1	3-1/2" Vibracore
-79.4	19.8					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT: Dade County Beach Restoration

HOLE NO. CB-DAC-30

Hole No. CB-DAC-31

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT Dade County Beach Restoration	10. SIZE AND TYPE OF BIT Vibracore 3-1/2"
2. LOCATION (Coordinates or Station) Y=798,904 X=556,608	11. DATUM FOR ELEVATION SHOWN (TBM or MSL) MLW
3. DRILLING AGENCY Alpine Geophysical (Contract)	12. MANUFACTURER'S DESIGNATION OF DRILL Vibracore
4. HOLE NO. (As shown on drawing title and file number) CB-DAC-31	13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED / UNDISTURBED
5. NAME OF DRILLER J. Katsolis	14. TOTAL NUMBER CORE BOXES 1
6. DIRECTION OF HOLE ☒ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER Tidal
	16. DATE HOLE: STARTED 5-25-74 / COMPLETED 5-25-74
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE -54.0
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING 78 %
9. TOTAL DEPTH OF HOLE 12.5'	19. ~~SIGNATURE OF REPRESENTATIVE~~ GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-54.0	0.0					
			SAND, calcareous, fine to medium grain, tan gray slightly silty (SP-SM)		1	3-1/2" Vibracore
-61.0	7.0		Below 7.0' numerous large shells and pebble to cobble size coral fragments			
-66.5	12.5					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE

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PROJECT Dade County

HOLE CB-DAC-31

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT: Dade County Beach Restoration
2. LOCATION (Coordinates or Station): X = 790,028 Y = 533,714
3. DRILLING AGENCY: Alpine Geophysical
4. HOLE NO. (As shown on drawing title and file number): CB-DAC-32
5. NAME OF DRILLER: J. Katsolis
6. DIRECTION OF HOLE: ☒ VERTICAL ☐ INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE: 12.8'
10. SIZE AND TYPE OF BIT: Vibracore 3-1/2"
11. DATUM FOR ELEVATION SHOWN (TBM or MSL): MLW
12. MANUFACTURER'S DESIGNATION OF DRILL: Vibracore
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED ; UNDISTURBED
14. TOTAL NUMBER CORE BOXES: 1
15. ELEVATION GROUND WATER: Tidal
16. DATE HOLE: STARTED 5-28-74 ; COMPLETED 5-28-74
17. ELEVATION TOP OF HOLE: -11.8
18. TOTAL CORE RECOVERY FOR BORING: 81 %
19. ~~TOTAL NUMBER CORE BOXES~~ GEOLOGIST: T. M. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-11.8	0.0					
			Sand, calcareous, fine to coarse grain, scattered shells, tan gray, slightly silty (SP-SM)			
-16.8	5.0		below 5' gray, more shell		1	
-23.8	12.0					
			Sandstone, hard			
-24.6	12.8					

ENG FORM 1836 MAR 71 PREVIOUS EDITIONS ARE OBSOLETE (TRANSLUCENT)

PROJECT: Dade Co. Beach Restoration HOLE NO. CB-DAC-32

Hole No. CB-DAC-33

DRILLING LOG	DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 1 SHEETS

1. PROJECT: Dade County Beach Restoration
2. LOCATION (Coordinates or Station): X=789,731 Y=528,622
3. DRILLING AGENCY: Alpine Geophysical (Contract)
4. HOLE NO. (As shown on drawing title and file number): CB-DAC-33
5. NAME OF DRILLER: J. Katsolis
6. DIRECTION OF HOLE: [X] VERTICAL [ ] INCLINED _____ DEG. FROM VERT.
7. THICKNESS OF OVERBURDEN
8. DEPTH DRILLED INTO ROCK
9. TOTAL DEPTH OF HOLE: 1.1'
10. SIZE AND TYPE OF BIT: Vibracore 3-1/2"
11. DATUM FOR ELEVATION SHOWN (TBM or MSL): MLW
12. MANUFACTURER'S DESIGNATION OF DRILL: Vibracore
13. TOTAL NO. OF OVER-BURDEN SAMPLES TAKEN: DISTURBED: ; UNDISTURBED:
14. TOTAL NUMBER CORE BOXES: -
15. ELEVATION GROUND WATER: Tidal
16. DATE HOLE: STARTED 5-28-74; COMPLETED 5-28-74
17. ELEVATION TOP OF HOLE: -17.9
18. TOTAL CORE RECOVERY FOR BORING: 45 %
19. ~~TOTAL NUMBER CORE BOXES~~ GEOLOGIST: T. N. THORNTON

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g
-17.9	0.0					
-19.0	1.0	1.1	Sandstone, hard, gray			
			Sample Not Retained			

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PROJECT: Dade County Beach Restoration

HOLE NO. CB-DAC-33