

JOINT
PUBLIC NOTICE

CHARLESTON DISTRICT, CORPS OF ENGINEERS
69A Hagood Avenue
Charleston, South Carolina 29403-5107
and the
S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
OFFICE OF OCEAN AND COASTAL RESOURCE MANAGEMENT
1362 McMillan Avenue, Suite 400
Charleston, South Carolina 29405

REGULATORY DIVISION
Refer to: P/N # SAC-2007-02631-2IG

30 NOVEMBER 2007

Pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403), Sections 401 and 404 of the Clean Water Act (33 U.S.C. 1344), and the South Carolina Coastal Zone Management Act (48-39-10 et.seq.) an application has been submitted to the Department of the Army and the S.C. Department of Health and Environmental Control by

THE CITY OF THE ISLE OF PALMS
C/O TIMOTHY KANA
COASTAL SCIENCE & ENGINEERING
POST OFFICE BOX 8056
COLUMBIA, SOUTH CAROLINA 29202-8056

for a permit to perform beach renourishment along the edge of the

ATLANTIC OCEAN

at a location, on the ocean shoreline from 47th Avenue to an existing groin along Dewees Inlet, on the northeast end of the Isle of Palms, in Charleston County, South Carolina.
(Latitude 32.81259°– Longitude -79.71985°)

In order to give all interested parties an opportunity to express their views

NOTICE

is hereby given that written statements regarding the proposed work will be received by both of the above mentioned offices until

12 O'CLOCK NOON, MONDAY, DECEMBER 31, 2007

from those interested in the activity and whose interests may be affected by the proposed work.

The proposed work consists of placement via hydraulic dredge of up to 885,000 cubic yards of beach quality sediment along 13,785 feet of the ocean shoreline from 47th Avenue to an existing groin along Dewees Inlet (approximately 126 acres). The applicant proposes to borrow sand from a ridge located approximately 3 miles offshore (approximately 75 acres). The proposed beach nourishment is expected to provide benefits for an estimated ten-year life (in terms of greater beach width compared with present conditions). The applicant proposes to conduct the work during the standard environmental window for S. C. beach renourishment projects (November – April). The purpose of the proposed work as stated by the applicant is for beach restoration, including: restoration of the recreational beach along the northeast erosion zone of the Isle of Palms from 47th Avenue to the existing terminal groin along Dewees Inlet;

30 NOVEMBER 2007

seaward of buildings such that dune enhancement may be initiated by the applicant and individual property owners (dune construction or revegetation is not part of the present application); place nourishment volumes of variable section densities so as to reduce the variability of beach width caused by inlet sand-bypassing processes; provide a protective buffer between existing infrastructure and the ocean; improve the overall aesthetics of the beach and enhance its recreational value. The project is locally sponsored and will not involve federal funds.

NOTE: Plans depicting the work described in this notice are available and will be provided, upon receipt of a written request, to anyone that is interested in obtaining a copy of the plans for the specific project. The request must identify the project of interest by public notice number and a self-addressed stamped envelope must also be provided for mailing the drawings to you. Your request for drawings should be addressed to the

**U.S. Army Corps of Engineers
ATTN: REGULATORY DIVISION
69A Hagood Avenue
Charleston, South Carolina 29403-5107**

The District Engineer has concluded that the discharges associated with this project, both direct and indirect, should be reviewed by the South Carolina Department of Health and Environmental Control in accordance with provisions of Section 401 of the Clean Water Act. As such, this notice constitutes a request, on behalf of the applicant, for certification that this project will comply with applicable effluent limitations and water quality standards. The work shown on this application must also be certified as consistent with applicable provisions the Coastal Zone Management Program (15 CFR 930). The District Engineer will not process this application to a conclusion until such certifications are received. The applicant is hereby advised that supplemental information may be required by the State to facilitate the review.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. Implementation of the proposed project would impact 201 acres of estuarine substrates and emergent wetlands utilized by various life stages of species comprising the red drum, shrimp, and snapper-grouper management complexes. Our initial determination is that the proposed action would not have a substantial individual or cumulative adverse impact on EFH or fisheries managed by the South Atlantic Fishery Management Council and the National Marine Fisheries Service (NMFS). Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

The District Engineer has consulted the most recently available information and has determined that the project is likely to adversely affect the loggerhead sea turtle (*Caretta caretta*). This public notice serves as a request to the U.S. Fish and Wildlife Service and/or the National Marine Fisheries Service to initiate formal consultation on this species that may be present in the area which would be affected, pursuant to Section 7(c) of the Endangered Species Act of 1973 (as amended). A biological assessment (or other similar document) detailing our analysis of the effects of the action will be provided.

Pursuant to Section 106 of the National Historic Preservation Act (NHPA), this public notice also constitutes a request to Indian Tribes to notify the District Engineer of any historic properties of religious and cultural significance to them that may be affected by the proposed undertaking.

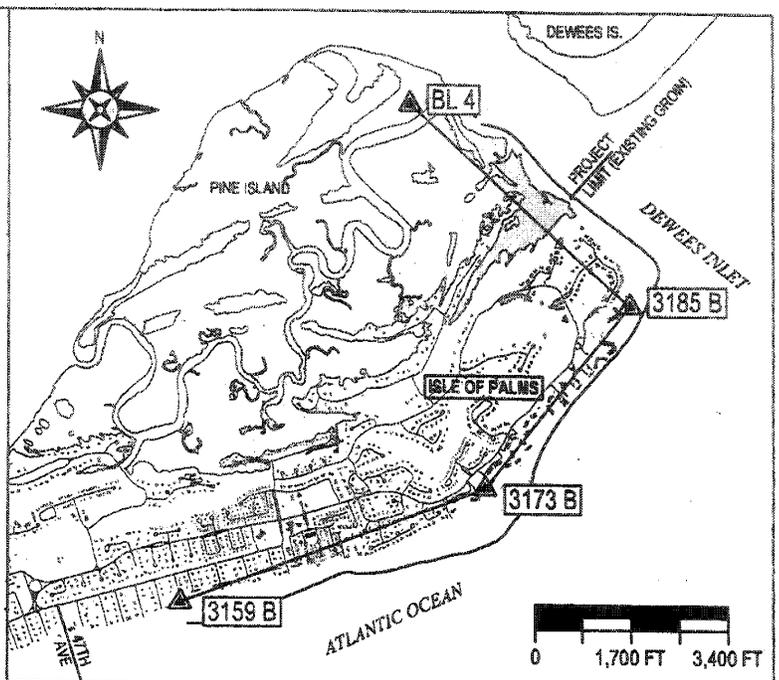
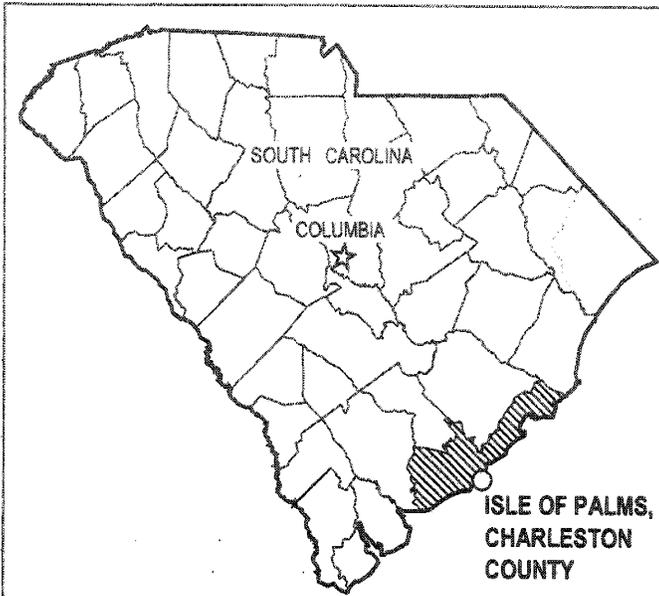
In accordance with the NHPA, the District Engineer has also consulted the latest published version of the National Register of Historic Places for the presence or absence of registered properties, or properties listed as being eligible for inclusion therein, and this worksite is not included as a registered property or property listed as being eligible for inclusion in the Register. To insure that other cultural resources that the District Engineer is not aware of are not overlooked, this public notice also serves as a request to the State Historic Preservation Office to provide any information it may have with regard to historic and cultural resources.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state, with particularity, the reasons for holding a public hearing.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the activity on the public interest and will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency (EPA), under authority of Section 404(b) of the Clean Water Act and, as appropriate, the criteria established under authority of Section 102 of the Marine Protection, Research and Sanctuaries Act of 1972, as amended. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the project must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the project will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. A permit will be granted unless the District Engineer determines that it would be contrary to the public interest. In cases of conflicting property rights, the Corps of Engineers cannot undertake to adjudicate rival claims.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this project. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

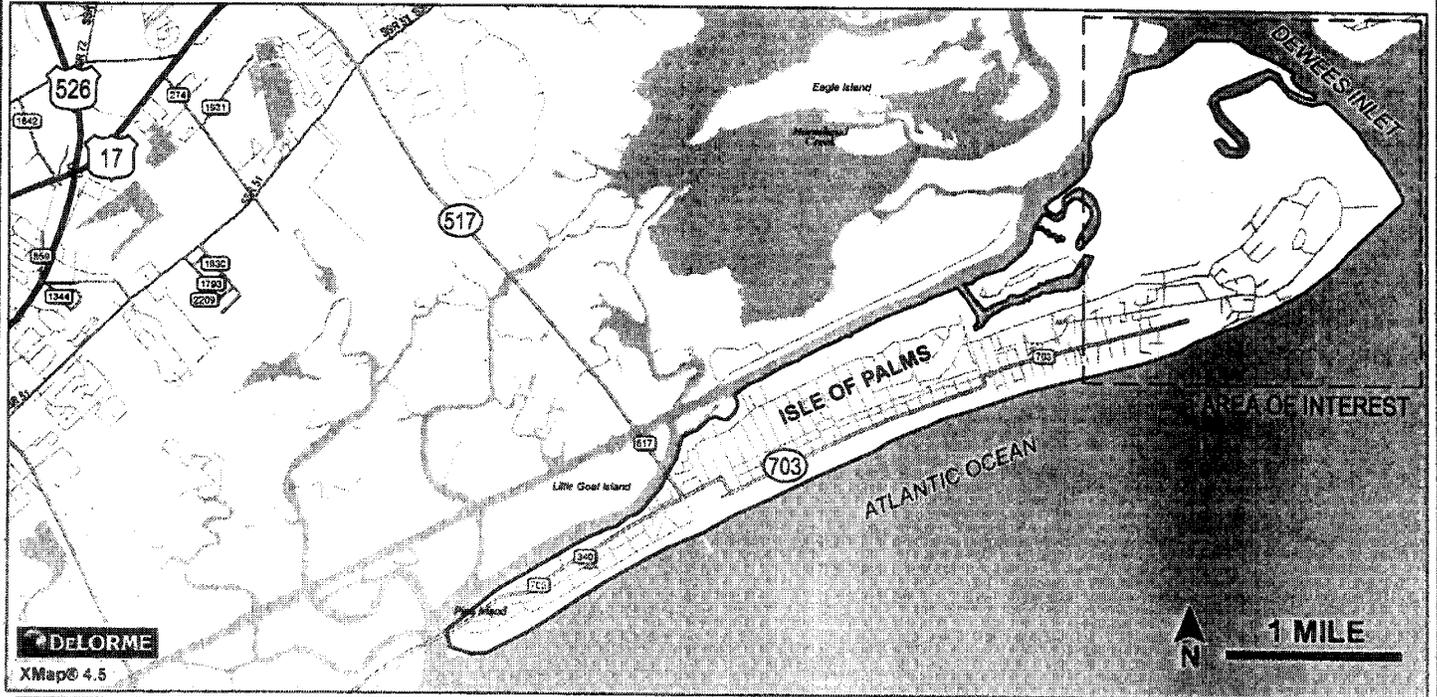
If there are any questions concerning this public notice, please contact Mary Hope Glenn at 843-329-8044 or toll free at 1-866-329-8187.



DIRECTIONS:

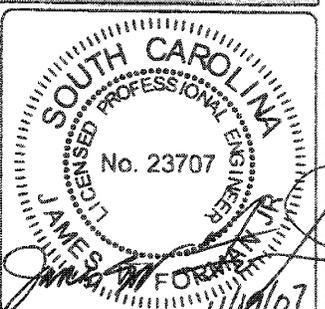
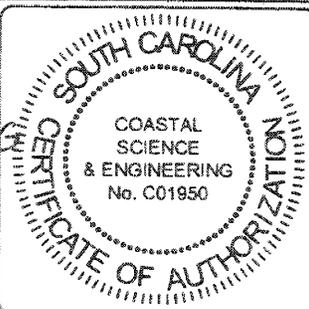
FROM CHARLESTON, TAKE US-17 NORTH. TURN RIGHT ONTO SC 517 (ISLE OF PALMS CONNECTOR). TURN LEFT ONTO PALM BLVD. SITE IS NORTHEAST OF 47TH AVE EXTENDING ALONG TO DEWEES INLET ON THE NORTHEAST END OF ISLE OF PALMS.

PROJECT AREA



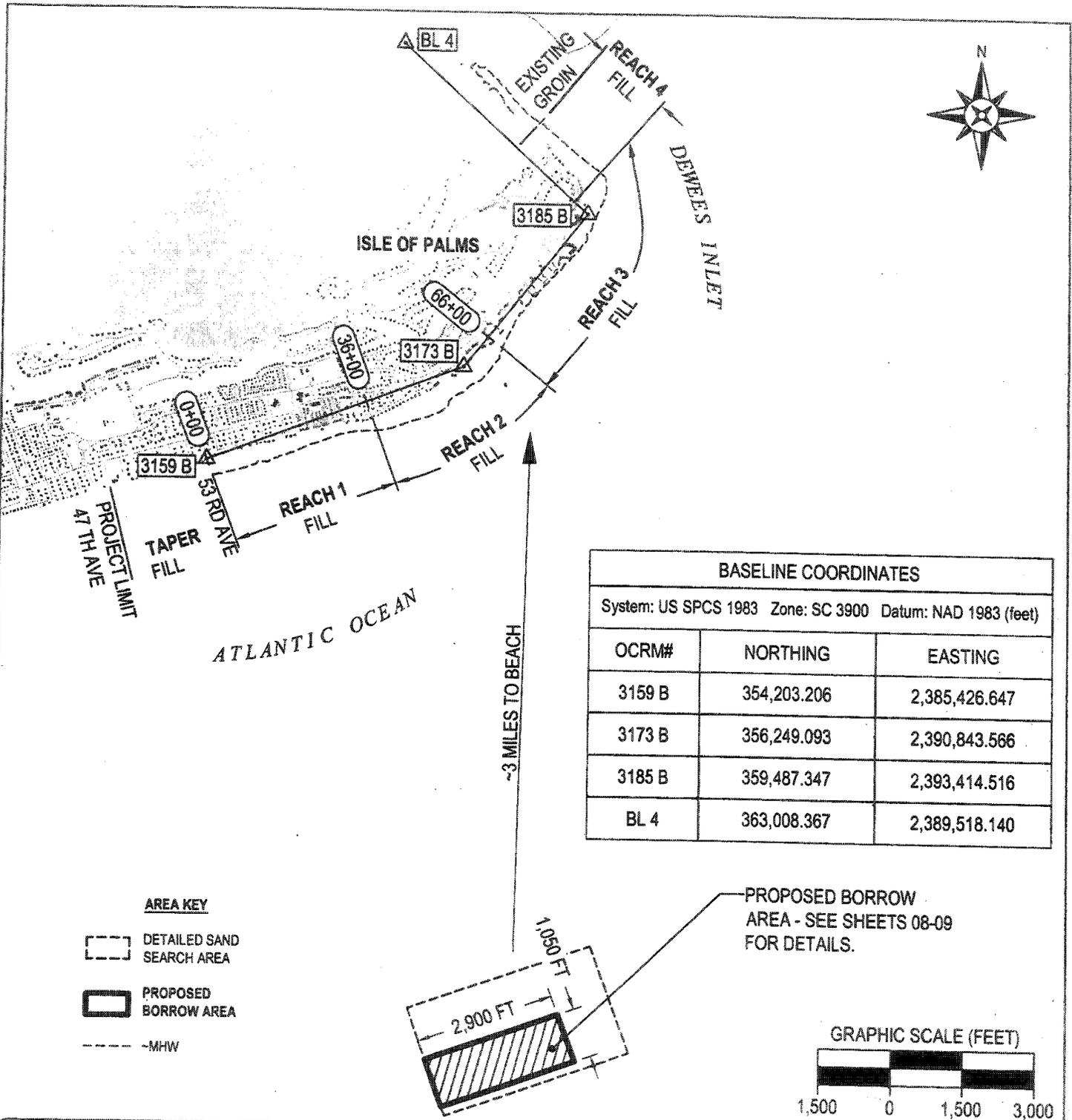
APPLICANT:
CITY OF ISLE OF PALMS
PO DRAWER 508
ISLE OF PALMS SC 29451

DRAWING TITLE:
VICINITY MAP
SAC 2007-02631-2



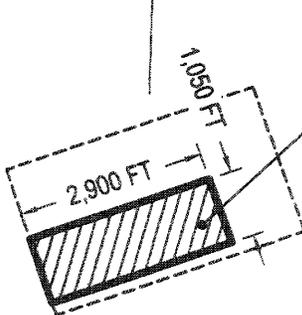
AGENT:
COASTAL SCIENCE & ENGINEERING
PO BOX 8056
COLUMBIA, SC 29202

SCALE: AS SHOWN SHEET #:
DATE: NOV 2007
TWS# 604-11-00-211
PROJECT #: 2236 OF: 12
01

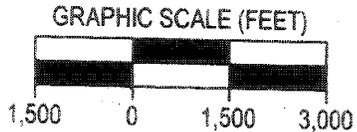


BASELINE COORDINATES		
System: US SPCS 1983 Zone: SC 3900 Datum: NAD 1983 (feet)		
OCRM#	NORTHING	EASTING
3159 B	354,203.206	2,385,426.647
3173 B	356,249.093	2,390,843.566
3185 B	359,487.347	2,393,414.516
BL 4	363,008.367	2,389,518.140

- AREA KEY**
- DETAILED SAND SEARCH AREA
 - PROPOSED BORROW AREA
 - MHW

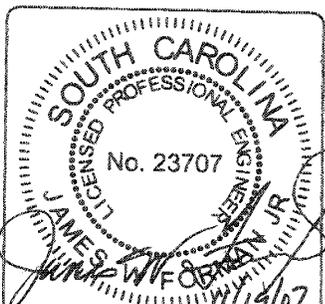
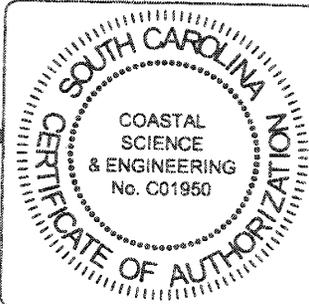


PROPOSED BORROW AREA - SEE SHEETS 08-09 FOR DETAILS.



APPLICANT:
CITY OF ISLE OF PALMS
PO DRAWER 508
ISLE OF PALMS SC 29451

DRAWING TITLE:
PROJECT PLAN MAP

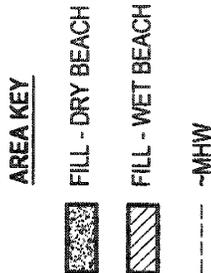
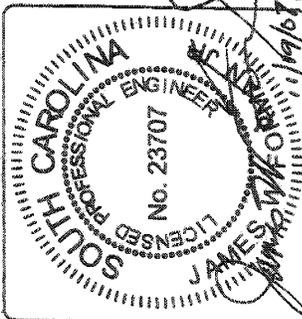
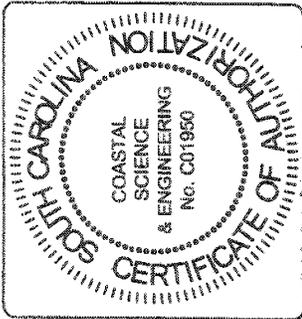
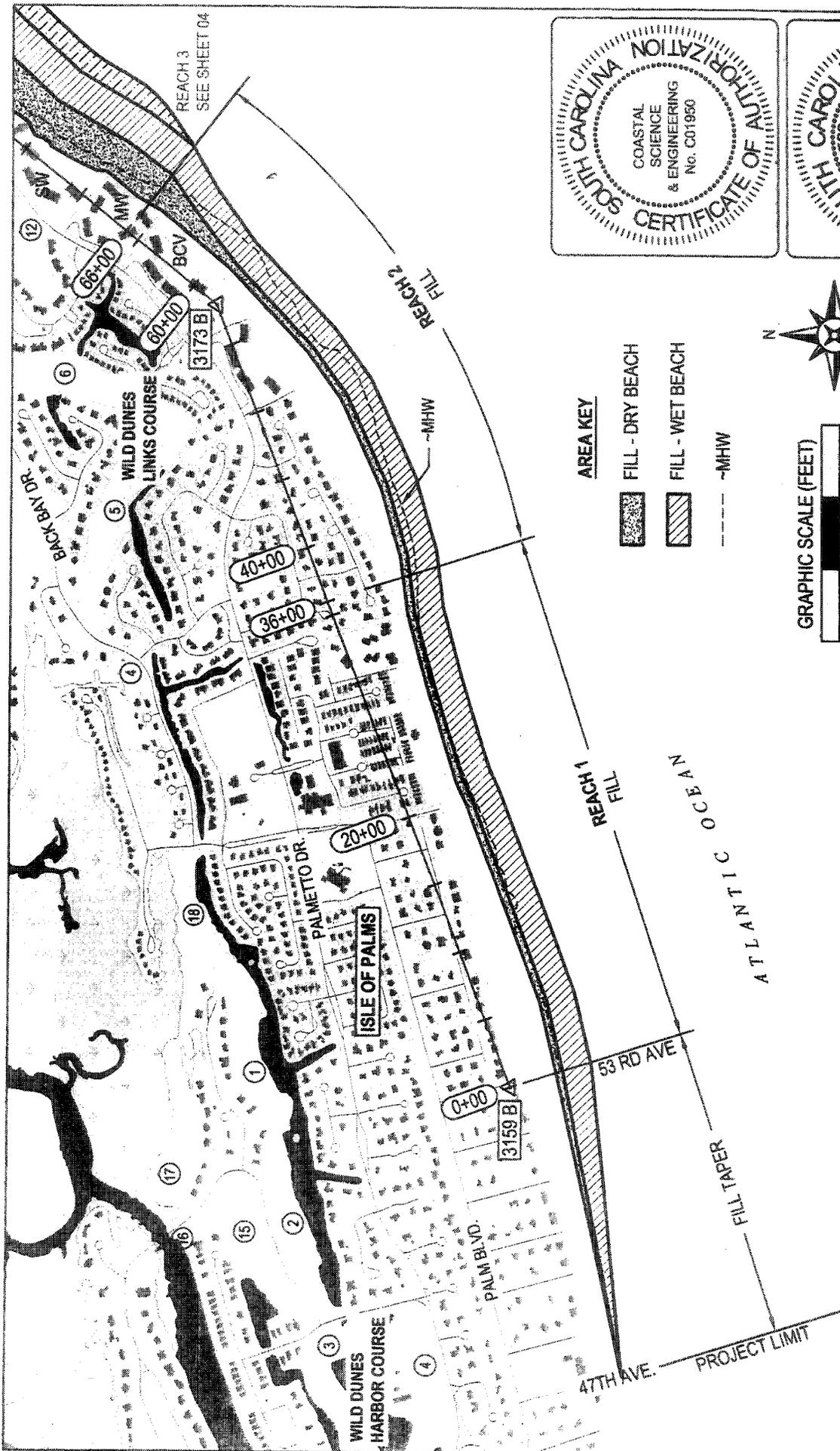


AGENT:
COASTAL SCIENCE & ENGINEERING
PO BOX 8056
COLUMBIA, SC 29202

SCALE: AS SHOWN SHEET #:
DATE: NOV 2007
TMS#: 604-11-00-211
PROJECT #: 2239 OF: 12

02

SAC 2007-02631-216



SCALE: AS SHOWN
 DATE: NOV 2007
 TMS#: 604-11-00-211
 PROJECT #: 2239

SHEET #: **03** OF 12

DRAWING TITLE:
 FILL PLAN
 REACH 1 & 2
 SAC 2007-02631-216

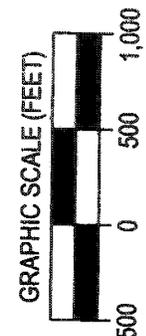
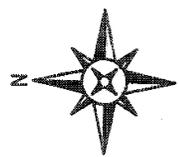
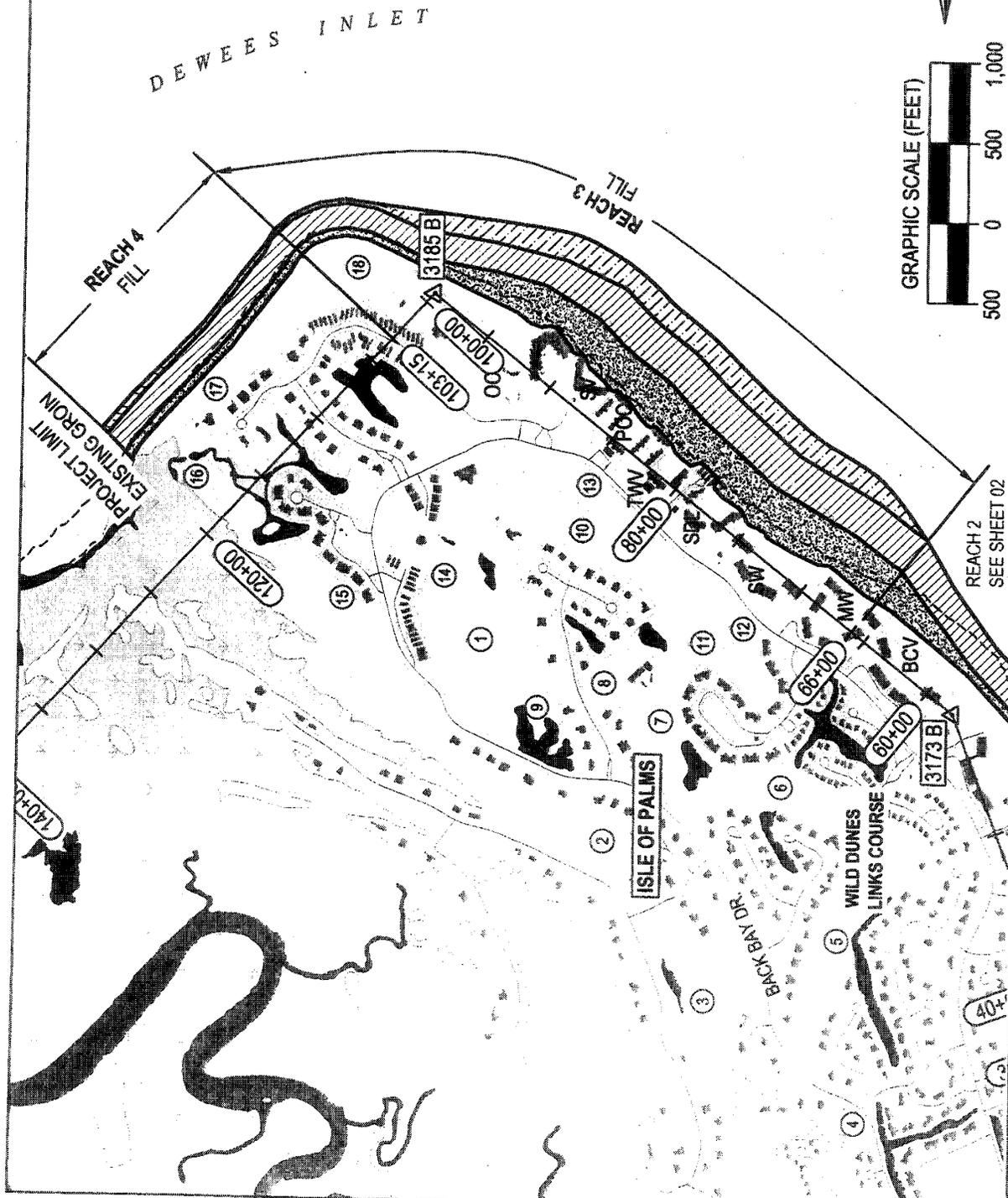
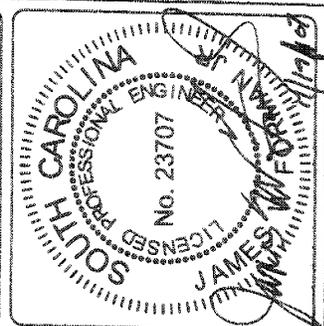
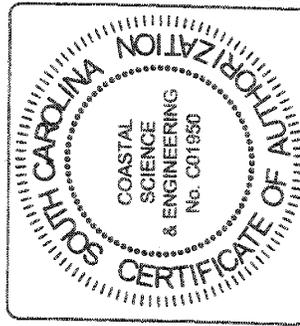
AGENT:
 COASTAL SCIENCE & ENGINEERING
 PO BOX 8056
 COLUMBIA, SC 29202

APPLICANT:
 CITY OF ISLE OF PALMS
 PO DRAWER 508
 ISLE OF PALMS SC 29451

NOTE: FILL SECTIONS MAY BE MODIFIED
ACCORDING TO CONDITIONS AT THE
TIME OF CONSTRUCTION.

AREA KEY

-  FILL - DRY BEACH
-  FILL - WET BEACH
-  UNDERWATER
-  ~MHW



SCALE: AS SHOWN	SHEET #:
DATE: NOV 2007	04
TMS#: 604-11-00-211	OF: 12
PROJECT #: 2238	

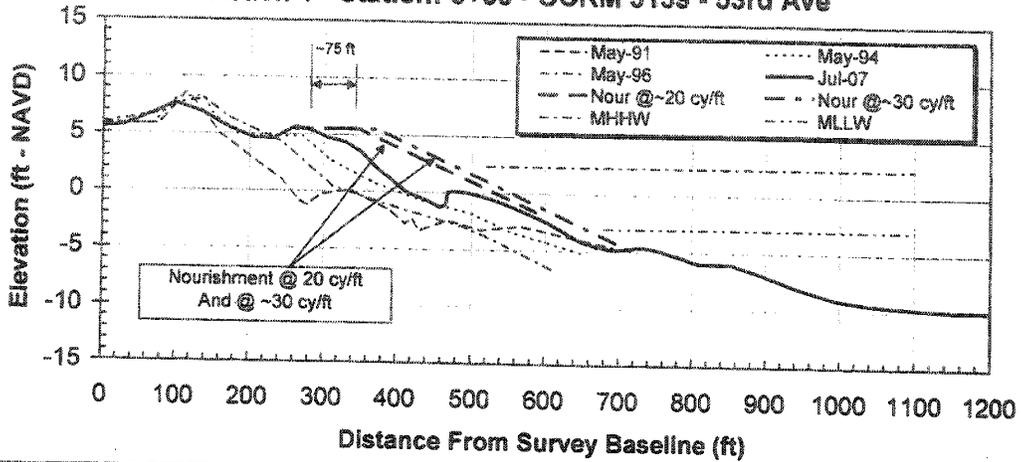
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**FILL PLAN
REACH 3 & 4**

SAC-2007-02-631-015

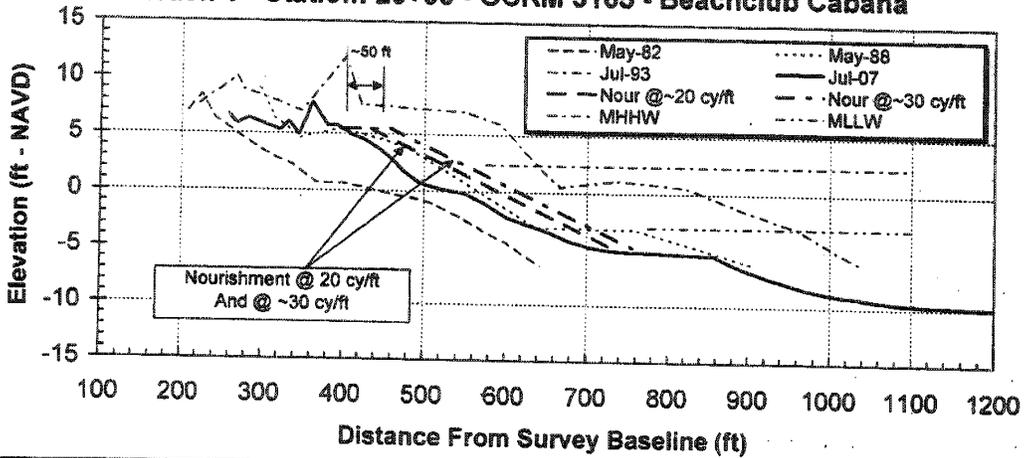
AGENT:
**COASTAL SCIENCE & ENGINEERING
PO BOX 8056
COLUMBIA, SC 29202**

APPLICANT:
**CITY OF ISLE OF PALMS
PO DRAWER 508
ISLE OF PALMS SC 29451**

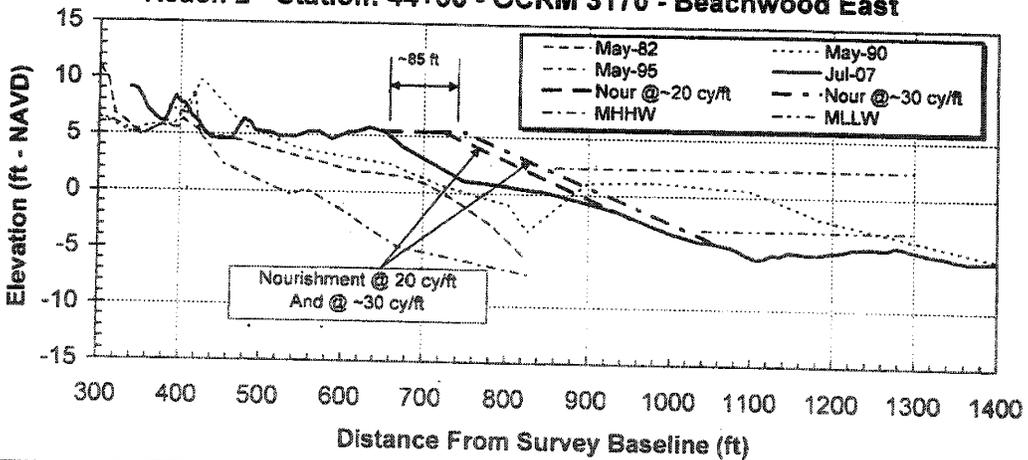
Reach 1 - Station: 0+00 - OCRM 3159 - 53rd Ave



Reach 1 - Station: 20+00 - OCRM 3165 - Beachclub Cabana



Reach 2 - Station: 44+00 - OCRM 3170 - Beachwood East



APPLICANT:
CITY OF ISLE OF PALMS
PO DRAWER 508
ISLE OF PALMS SC 29451

DRAWING TITLE:
FILL SECTIONS
STA 0+00 TO 44+00

SAC 2007-02631-21G

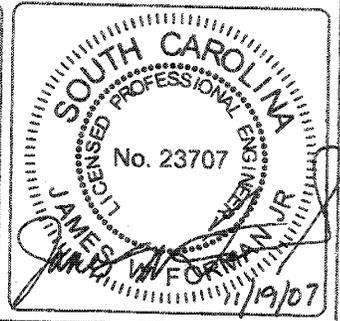
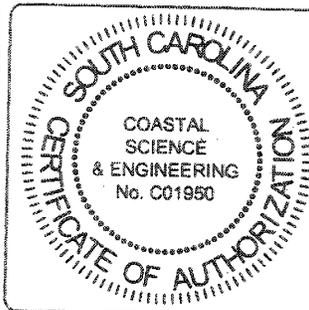
AGENT:
COASTAL SCIENCE & ENGINEERING
PO BOX 8056
COLUMBIA, SC 29202

SCALE: AS SHOWN
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TMS# 604-11-03-211
PROJECT #: 2239

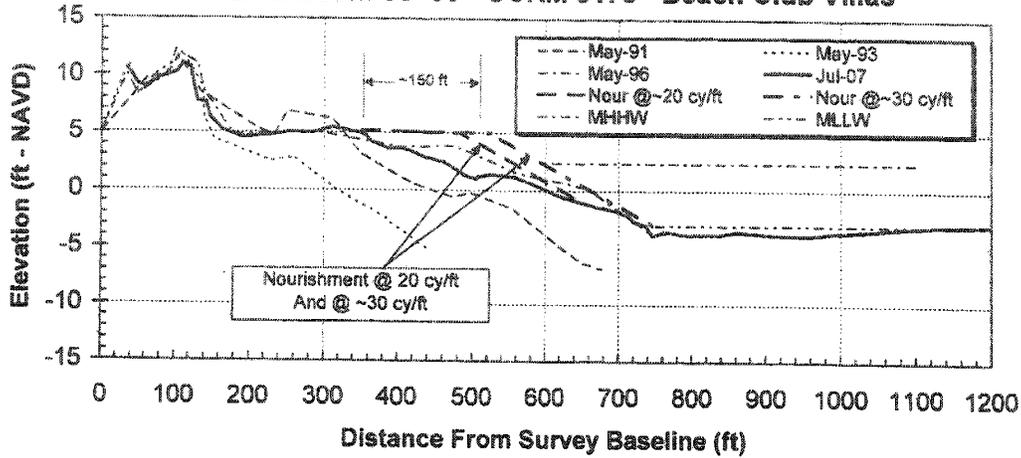
SHEET #:

05

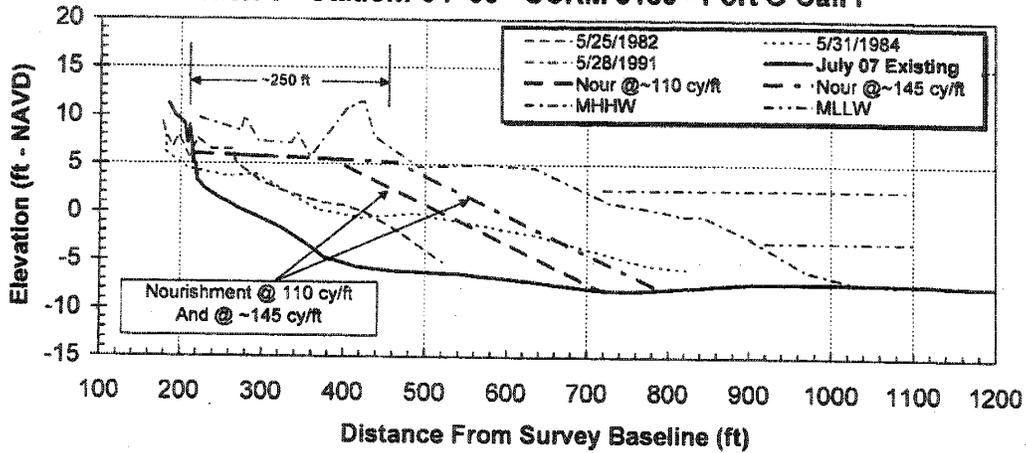
OF: 12



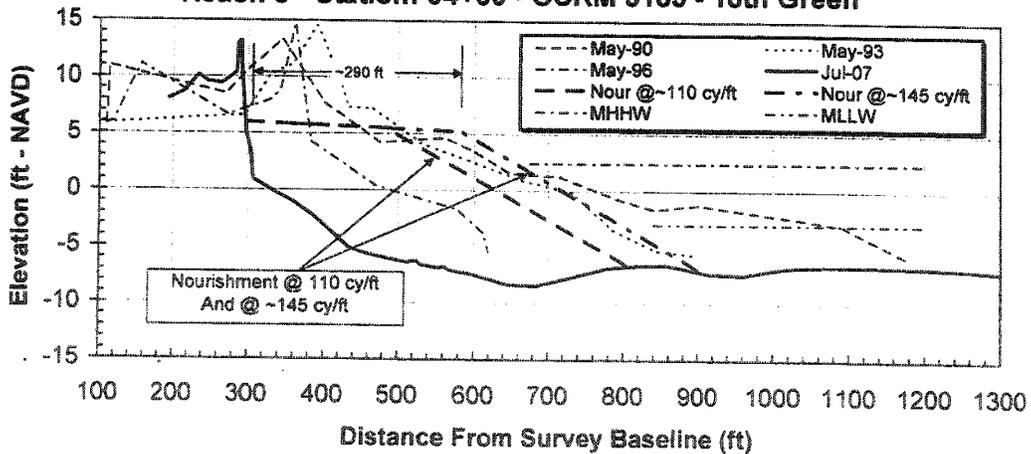
Reach 2 - Station: 58+00 - OCRM 3173 - Beach Club Villas



Reach 3 - Station: 84+00 - OCRM 3180 - Port O Call I



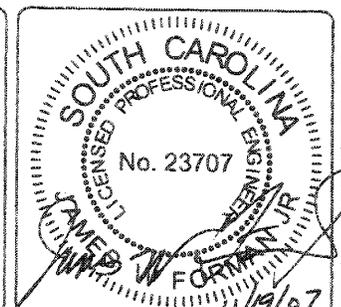
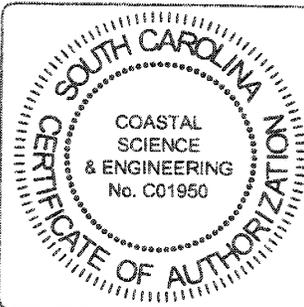
Reach 3 - Station: 94+00 - OCRM 3183 - 18th Green



APPLICANT:
CITY OF ISLE OF PALMS
PO DRAWER 508
ISLE OF PALMS SC 29451

DRAWING TITLE:
FILL SECTIONS
STA 58+00 TO 94+00

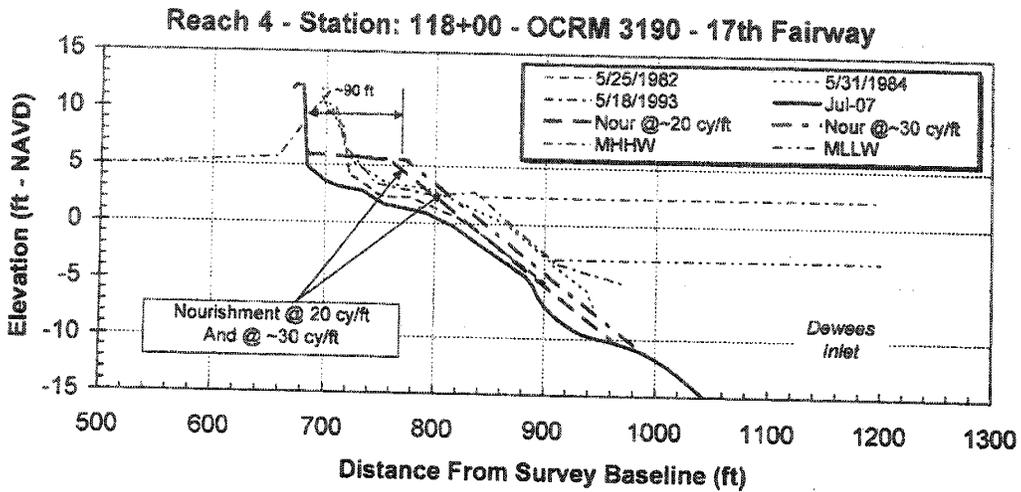
SAC 2007-02631-216



AGENT:
COASTAL SCIENCE & ENGINEERING
PO BOX 8056
COLUMBIA, SC 29202

SCALE: AS SHOWN
DATE: NOV 2007
TMS# 604-11-00-211
PROJECT # 2239

SHEET #:
06
OF 12



NOTE: INDICATED FILL SECTIONS PROVIDE THE TYPICAL RANGE OF NOURISHMENT VOLUMES ANTICIPATED BASED ON EXISTING CONDITIONS (JULY 2007 SURVEY). SECTIONS WILL ALSO BE VARIED WITHIN EACH REACH SO AS TO CREATE SMOOTH TRANSITIONS FROM STATION TO STATION.

SOURCE DATA: COASTAL SCIENCE & ENGINEERING 1984-2007

OCRM 1988 TO PRESENT

RESEARCH PLANNING INSTITUTE 1982-1984

APPLICANT:
CITY OF ISLE OF PALMS
PO DRAWER 508
ISLE OF PALMS SC 29451

DRAWING TITLE:
FILL SECTIONS
STA 118+00

GAC 2007-02631-208

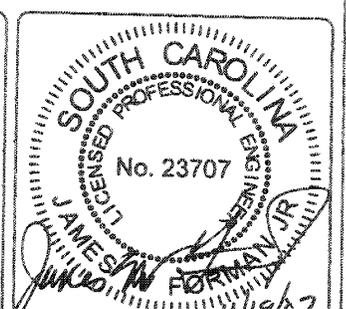
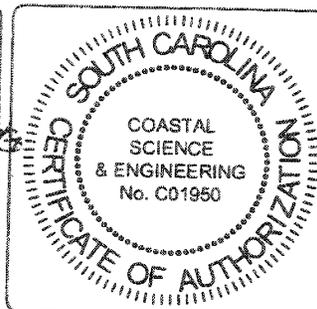
AGENT:
COASTAL SCIENCE & ENGINEERING
PO BOX 8056
COLUMBIA, SC 29202

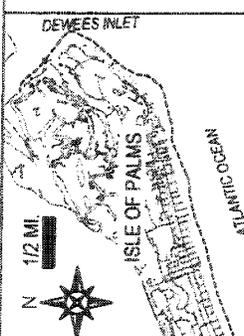
SCALE: AS SHOWN
DATE: NOV 2007
TMS# 604-11-00-211
PROJECT #: 2239

SHEET #:

07

OF: 12

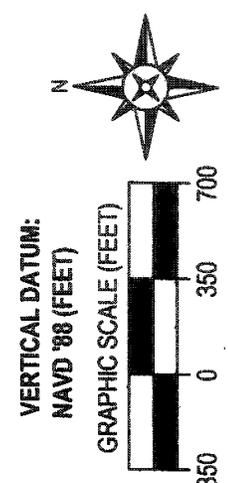
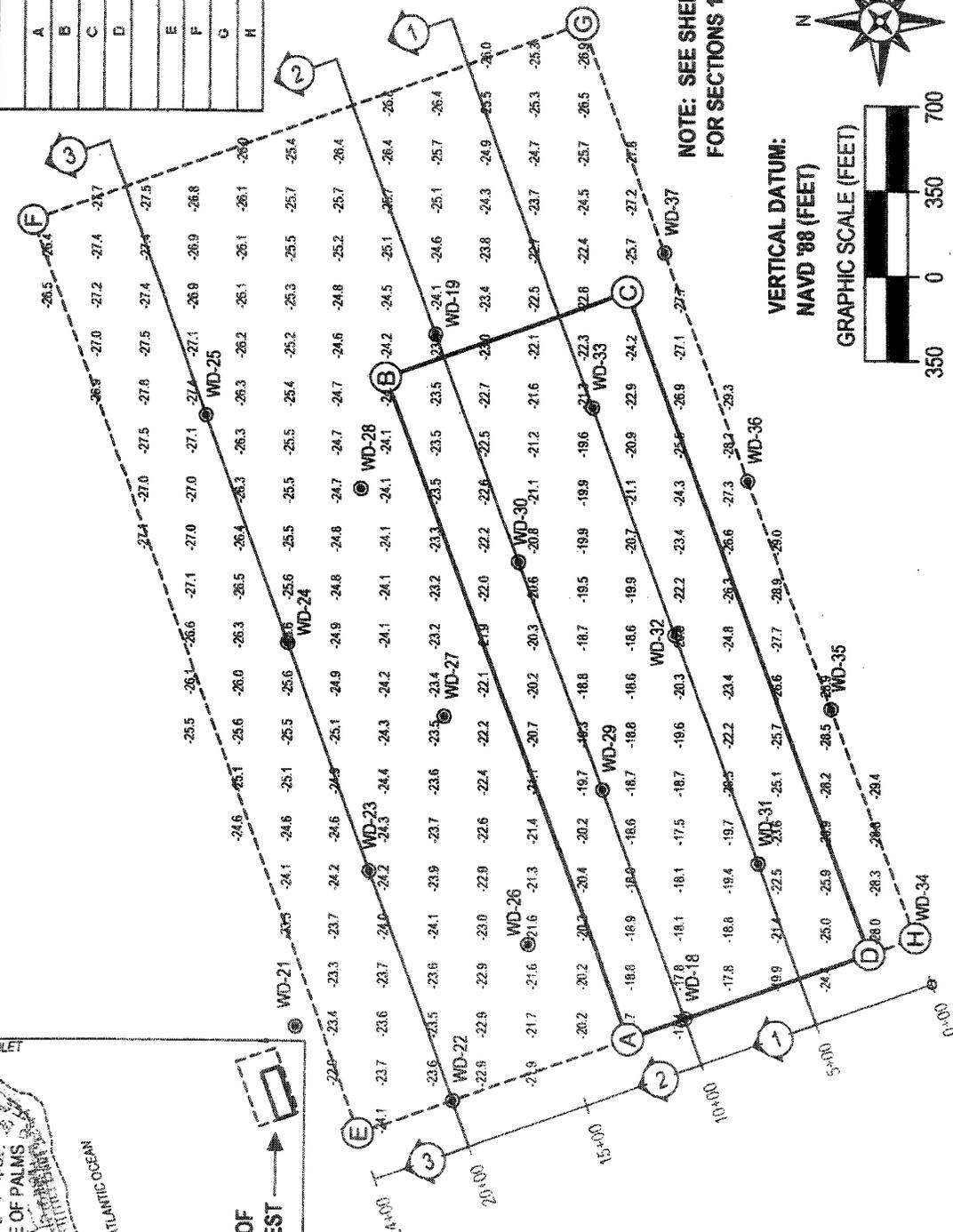
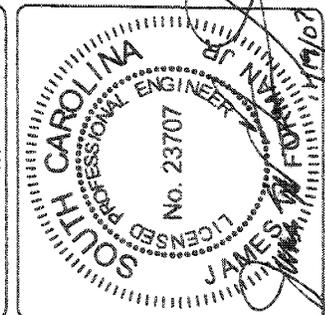
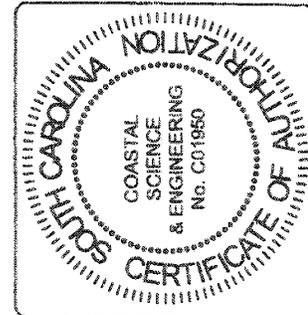
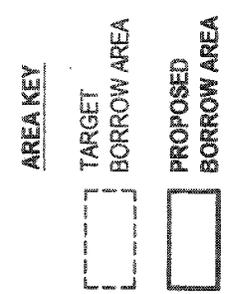




AREA OF INTEREST

CSE BASELINE COORDINATES
System: US SPCS 1983 Zone: SC 3800 Datum: NAD 1983 (feet)

NAME	NORTHING	EASTING
PROPOSED BORROW AREA		
A	341543.389	2,390,271.696
B	342536.257	2,392,996.805
C	341516.580	2,393,365.926
D	340556.721	2,390,630.817
DETAILED SAND BEACH AREA		
E	342562.045	2,399,878.373
F	343399.2126	2,393,637.144
G	341736.663	2,394,457.962
H	340368.763	2,390,699.221



DRAWING TITLE:
OFFSHORE BORROW AREA

SHEET #: 08

SCALE: AS SHOWN

DATE: NOV 2007

TMS#: 604-11-002111

PROJECT #: 2239

OF: 12

AGENT:
COASTAL SCIENCE & ENGINEERING
PO BOX 8056
COLUMBIA, SC 29202

APPLICANT:
CITY OF ISLE OF PALMS
PO DRAWER 508
ISLE OF PALMS SC 29451

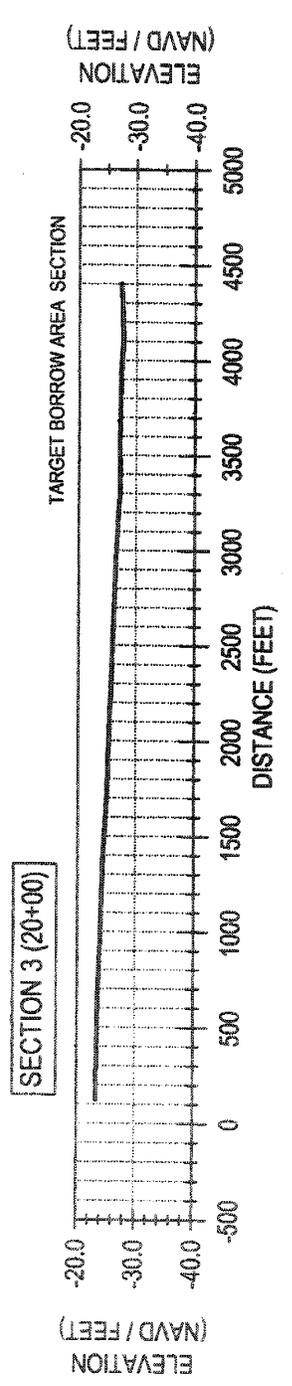
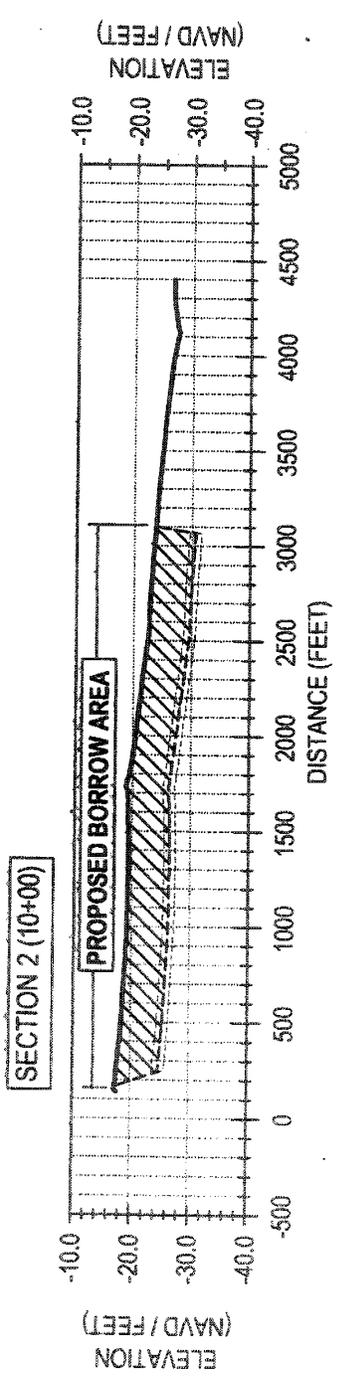
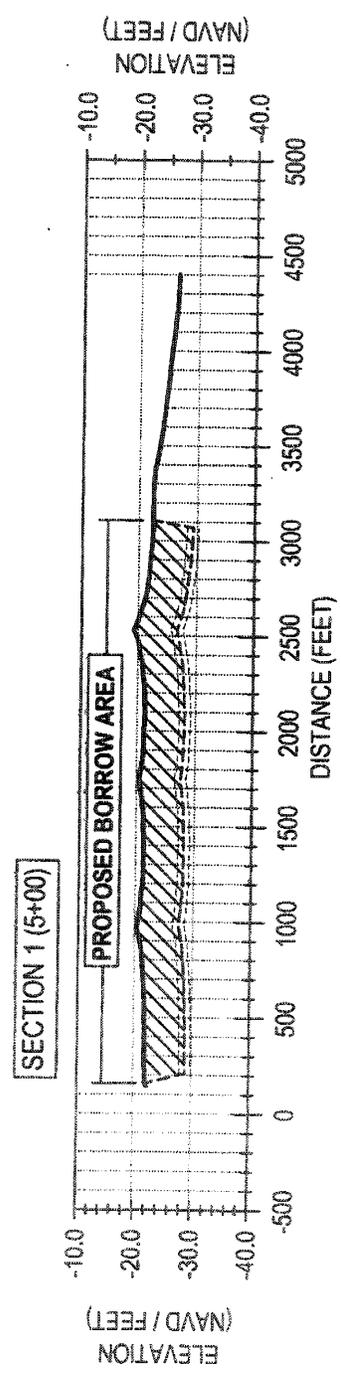
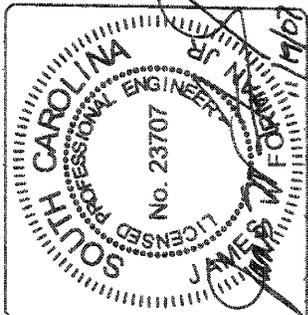
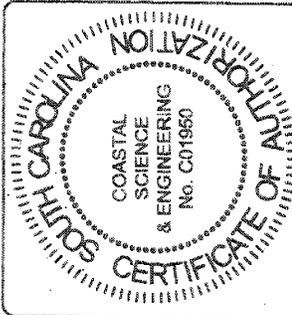
DATE: NOV 2007

PROJECT #: 2239

OF: 12

LINE KEY
 ——— EXISTING GROUND
 ▨ PROPOSED EXCAVATION
 - - - EXCAVATION ±1 FT

SURVEY DATUM:
HORIZONTAL:
 SPCS NAD 83 FEET
 SC ZONE 3900
VERTICAL:
 NAVD 1988 FEET
 EXAGGERATION: 30



SAC 2007 - 02631-2IG

SCALE	AS SHOWN	SHEET #	09
DATE	NOV 2007	OF 12	
TMS#	604-11-00-211		
PROJECT #	2239		

DRAWING TITLE:
OFFSHORE BORROW AREA SECTIONS 1-3

AGENT:
 COASTAL SCIENCE & ENGINEERING
 PO BOX 8056
 COLUMBIA, SC 29202

APPLICANT:
 CITY OF ISLE OF PALMS
 PO DRAWER 508
 ISLE OF PALMS SC 29451

SUMMARY SEDIMENT QUALITY MEASURES FOR THE RECOMMENDED OFFSHORE BORROW SUBAREA		
PARAMETER	NATIVE BEACH SAMPLES (COMPOSITE)	BORROW AREA (COMPOSITES TO 8 FT)
MEAN GRAIN SIZE MM	0.253 MM	0.355 MM
SORTING MM	0.523 MM	0.459 MM
PERCENT >2 MM	5	13.5
PERCENT SHELL >2 MM	~4.7	~13.5
PERCENT SHELL <2 MM	~6.4	~18.4
DOMINANT SHELL SPECIES	DONAX SP	DONAX SP
SEDIMENT DESCRIPTION	MEDIUM SAND	MEDIUM SAND

SOURCE: CSE. 2007. SHORELINE ASSESSMENT AND LONG-RANGE PLAN FOR BEACH RESTORATION ALONG THE NORTHEAST EROSION ZONE, ISLE OF PALMS, SOUTH CAROLINA. COASTAL SCIENCE & ENGINEERING, COLUMBIA, SC 74 PP.

APPLICANT:
CITY OF ISLE OF PALMS
PO DRAWER 508
ISLE OF PALMS SC 29451

DRAWING TITLE:
**SEDIMENT
CHARACTERISTICS**

SAC 2007-02631-216

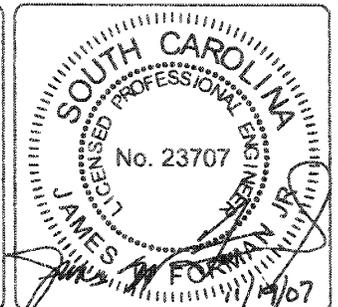
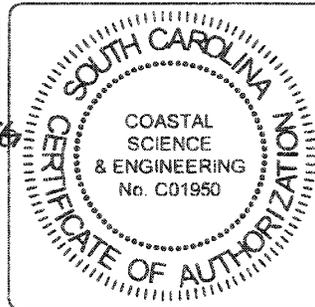
AGENT:
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PO BOX 8056
COLUMBIA, SC 29202

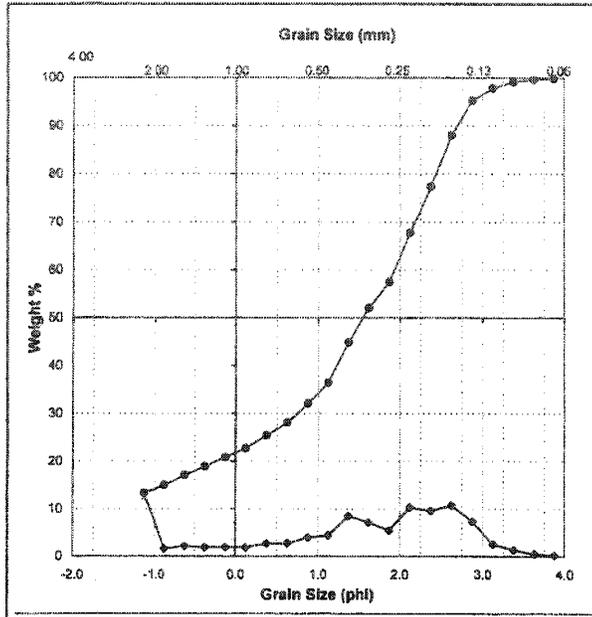
SCALE: AS SHOWN
DATE: NOV 2007
TMS# 604-11-00-211
PROJECT# 2238

SHEET #:

10

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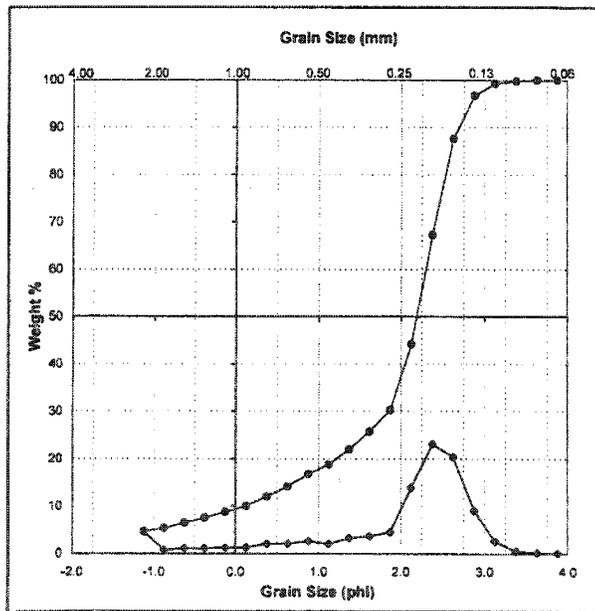
Project #2239
 Location Wild Dunes 2007
 Date

Station Comp 6 Borrow
 Interval

Mean 0.355 mm
 Std. Deviation 0.459 mm
 Skewness -0.167

Sediment Type
 MEDIUM SAND
 Poorly Sorted
 Strongly Coarse-Skewed
 Mesokurtic

Total weight (gram) 101.61
 % Mud 2.10
 % Coarser than 2 mm 13.31
 % CaCO₂ 32.41



Project #2239
 Location Wild Dunes 2007
 Date

Station Comp 6 Beach
 Interval

Mean 0.253 mm
 Std. Deviation 0.523 mm
 Skewness -0.652

Sediment Type
 MEDIUM SAND
 Poorly Sorted
 Strongly Coarse-Skewed
 Very Leptokurtic

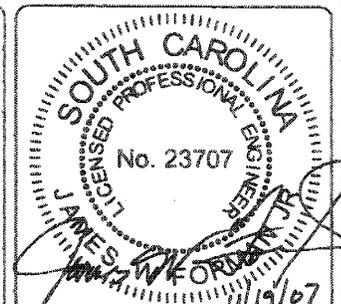
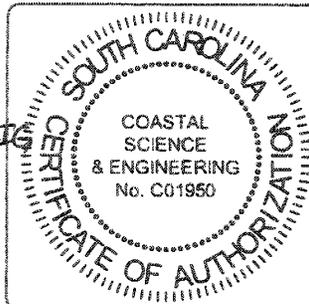
Total weight (gram) 100.85
 % Mud 0.02
 % Coarser than 2 mm 4.66
 % CaCO₂ 11.05

SEDIMENT GRAIN-SIZE DISTRIBUTION FOR THE PROPOSED OFFSHORE BORROW AREA BASED ON A COMPOSITE SIZE DISTRIBUTION FROM SIX CORES TO A TARGET EXCAVATION THICKNESS OF ~8 FT. LOWER GRAPH SHOWS A REPRESENTATIVE NATIVE BEACH COMPOSITE FOR REACHES 2 AND 3 AT WILD DUNES.

APPLICANT:
 CITY OF ISLE OF PALMS
 PO DRAWER 508
 ISLE OF PALMS SC 29451

DRAWING TITLE:
 SEDIMENT
 CHARACTERISTICS

SAC-2007-02631-216



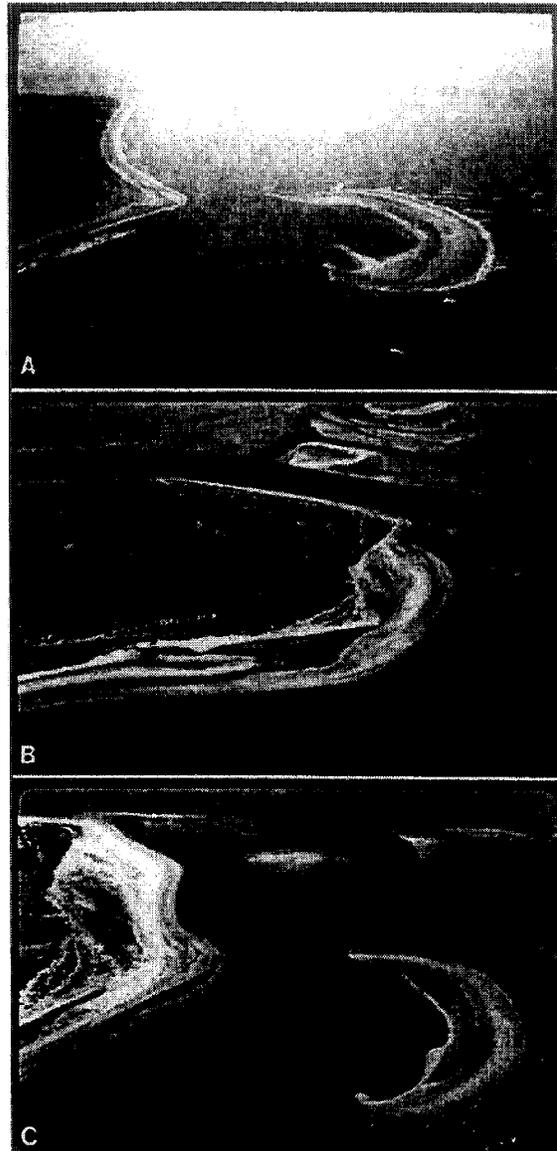
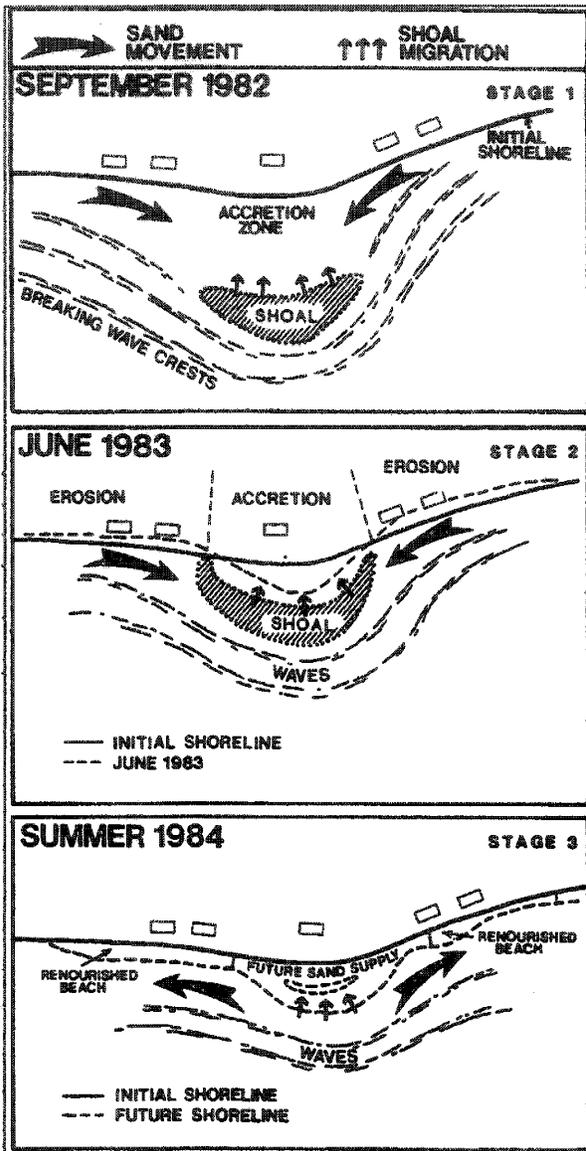
AGENT:
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 PO BOX 8056
 COLUMBIA, SC 29202

SCALE: AS SHOWN
 DATE: NOV 2007
 TMS# 604-11-08-211
 PROJECT # 2239

SHEET #:

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[LEFT] THE THREE STAGES OF SHOAL BYPASSING BASED ON A CASE STUDY AT DEWEES INLET/ISLE OF PALMS (AFTER KANA ET AL 1985). [RIGHT] SHOAL-BYPASS EVENT INVOLVING ~1 MILLION CUBIC YARDS OF SAND AT STONO INLET/KIAWAH ISLAND BETWEEN 1977(A) AND 1983 (B). A SUCCESSIVE EVENT BEGAN AROUND 1986 (C), CULMINATING IN ATTACHMENT AROUND 1990. VIEWS ARE LOOKING NORTH AT LOW TIDE. NOTE MAJOR CHANGES IN THE ADJACENT SHORELINE. SUCH LARGE SWINGS IN SHORELINE POSITION ARE COMMON AROUND ALL SOUTH CAROLINA INLETS. [FROM KANA ET AL 1999, FIG 6]

APPLICANT:
CITY OF ISLE OF PALMS
PO DRAWER 508
ISLE OF PALMS SC 29451

AGENT:
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DRAWING TITLE:
SHOAL BYPASSING
STAGES

SAC 2007-02631-216

SCALE: AS SHOWN
DATE: NOV 2007
TMS#: 604-11-00-211
PROJECT #: 2239

SHEET #:

12

OF: 12

