

## **EXECUTIVE SUMMARY**

**Recommend approval of Work Order HM-FT-3902-08-01 under Contract 06-3902 with Humiston & Moore Engineers for time and material not to exceed \$28,340 (Project 195-905421)**

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**OBJECTIVE:** To provide monitoring survey and report, as required for 2008, and to submit information to the State of Florida DEP as required by permit #0235209-001-JC.

**CONSIDERATIONS:** This monitoring will fulfill the requirements of the first annual monitoring required under a DEP approved five (5) year monitoring plan. That plan calls for monitoring to be completed in the spring of 2008, then 2009, 2010 and 2012.

This proposal will include Hydrographic and upland beach profile data collected by Sea Diversified as a subconsultant to H&M. The report shall summarize and discuss the data, the performance of the beach fill project and identify erosion and accretion patterns within the monitored area.

**ADVISORY COMMITTEE RECOMMENDATIONS:** At the Coastal Advisory Committee (CAC) August 14, 2008 meeting the above project was recommended for approval. **This recommendation carried 7-0.**

**COUNTY ATTORNEY FINDING:** A finding by the County Attorney is not required for this item.

**FISCAL IMPACT:** The Source of funds is from Category "A" Tourist Development Tax.

**GROWTH MANAGEMENT IMPACT:** There is no impact to the Growth Management Plan related to this action.

**RECOMMENDATION:** To approve Work Order HM-FT-3902-08-01 under Contract 06-3902 with Humiston & Moore Engineers in the amount of \$28,340

**PREPARED BY: Gail Hambright, Coastal Zone Management**



**HUMISTON  
& MOORE  
ENGINEERS**  
COASTAL  
ENGINEERING DESIGN  
AND PERMITTING

5679 STRAND COURT  
NAPLES, FLORIDA 34110  
FAX: 239 594 2025  
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August 6, 2008

Mr. Gary McAlpin  
Collier County - Coastal Zone Mgmt. Dept.  
3300 Santa Barbara Blvd.  
Naples, FL 34116

**Sent via email**

**Re: Revised Updated Proposal, South Marco Monitoring Survey and Report,  
H&M File No. 16001**

Dear Gary:

This proposal is to provide the referenced monitoring survey and report, as required for 2008, and to submit information to the State of Florida DEP as required by permit #0235209-001-JC. This will fulfill the requirements of the first annual monitoring required under a DEP approved five year monitoring plan. That plan calls for monitoring to be completed in the spring of 2008, then 2009, 2010, and 2012, and will include items 1 and 3 shown below. The entire scope of the monitoring required by the plan is listed below, however, item 2 is only required for the reports due in 2009 and 2012 and is therefore listed for information purposes only.

1. Hydrographic and upland beach profile data collected by Sea Diversified Incorporated (SDI) as a subconsultant to Humiston & Moore Engineers (H&M) will be reduced, upland data will be merged with offshore data, and digital files will be prepared in DEP format for submittal to DEP on DNR Reference Monuments R-139 to R-148, G1 through G5, K1 & K2.

Estimated cost .....\$ 9,825

2. (Not included in the scope of this proposal) A hydrographic survey of the Caxambas Pass area will be performed. The survey shall be bounded in the east-west direction by the inlet throat and the offshore 15-ft water depth contour and bounded in the north-south direction by the Marco Island south end seawall and transect K1 on Kice Island. The northern half of the survey domain will be surveyed north-south at 200-ft line intervals, the southern half of the domain will be surveyed north-south at 400-ft line intervals, and the entire domain will have east-west lines at 600-ft intervals. The permitted borrow area will be surveyed at 50-ft intervals.

Estimated cost ..... Not included in this scope

3. H&M will submit two (2) copies of an engineering report and the monitoring data to DEP, and fifteen (15) copies to Collier County. The report shall summarize and discuss the data, the performance of the beach fill project, and identify erosion

and accretion patterns within the monitored area. In addition, the report shall include a comparative review of project performance to performance expectations and identification of adverse impacts attributable to the project. Appendices shall include plots of survey profiles and graphical representations of volumetric and shoreline position changes for the monitoring area. Results shall be analyzed for patterns, trends, or changes between annual surveys and cumulatively since project construction.

Estimated cost .....\$18,515

Total Estimated Cost.....\$28,340

The DEP approved monitoring plan also requires that: Aerial photography of the beach shall be taken concurrently with the post-construction survey and each annual and biennial monitoring survey required above, as close to the date of the beach profile surveys as possible. The limits of the photography shall include the surveyed monitoring area as described above. All work activities and deliverables shall be conducted in accordance with the latest update of the BBCS Monitoring Standards for Beach Erosion Control Projects, Section 02000 -Aerial Photography.

We have requested that DEP waive this requirement in lieu of accepting the 2008 aerial photography taken by Collier County, and we have at the same time requested quotes for the aerial photography in the event that DEP does not accept the 2008 County aerals. We will advise further as soon as we receive responses from DEP and the firm that provides the aerial photographic services.

We propose to provide these 2008 monitoring services and deliverables on a time and materials basis for a not-to-exceed budget of \$28,340, in accordance with the terms of our Fixed Term Professional Engineering Services. If any services beyond the above described scope of work are requested by the county, They will be provided upon receipt of written authorization, and a budget amendment if the costs exceed the not-to-exceed budget.

Sincerely yours,

**HUMISTON & MOORE ENGINEERS**



Kenneth K. Humiston, P.E.

08/06/08 South Marco Erosion Control H&M File No. 16001																	
<b>BUDGET FOR SOUTH MARCO EROSION CONTROL PROJECT, 2008 ANNUAL MONITORING</b>																	
PROJECT: South Marco H&M File No. 16001		Humiston & Moore Engineers												Subconsultant		Total Expenses &	Total Cost of Task
DATE	6-Aug-08	Principal Engineer	Senior Engineer	Project Director	Engr III	Coastal Modeler	Field Ecologist	Senior Tech	Junior Tech	Clerical	Admin	Total H&M	Total H&M	Sea	Diversified, Inc.	Subconsultants	
Task	Rates	\$185	\$150	\$145	\$115	\$110	\$95	\$85	\$65	\$40	\$55	Hours	Fees	Expense			
1.0	Survey	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	\$0.00	\$0.00	\$9,825.00	\$9,825.00	\$9,825.00
2.0	Report	20.00	8.00	4.00	60.00	0.00	0.00	65.00	0.00	2.00	0.00	159.00	18015.00	500.00	\$0.00	\$500.00	\$18,515.00
Totals:		20.00	8.00	4.00	60.00	0.00	0.00	65.00	0.00	2.00	0.00	159.00	\$18,015.00	\$500.00	\$9,825.00	\$10,325.00	\$28,340.00
Task 2 Expense reimbursement includes materials and reproduction for preparation and transmittal of 17 copies of the report																	