

Attachment 1

TASK ORDER

TASK ORDER: 0878-02 CONSULTANT: Humiston & Moore Engineers

ACCOUNT: 3652-381-M037-3120-02 CONTRACT: R2008-0878
[Fiscal approval of Budget Availability: Jim Plummer]

PROJECT MANAGER: Michael Stahl PHONE: 561-233-2433

CONTRACT MANAGER: Juan Cueto PHONE: 561-233-2431

PROJECT NAME: Singer Island Erosion Control Project - Response to DEP RAI #3

LOCATION/DISTRICT #: Singer Island / District 1

TASK DESCRIPTION (use additional pages if necessary): The consultant shall prepare a response to DEP Request for Additional Information (RAI) #3, digitize 2008 hardbottom, and respond to additional Request for Information from the USFWS, as described in the scope of work dated November 5, 2008.

DELIVERABLES: See scope of work dated 11/5/08.

TASK ORDER TYPE: FIXED PRICE DUE DATE: 2/1/09

TOTAL AMOUNT \$ 123,338.89 See attached proposal dated 11/5/08

(Check where appropriate)
for Contract and Subcontract Amounts:

	Black	Hispanic	Women	Other (specify)	White Male
M/WBE (State) <input type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	
SBE-M/WBE* <input type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	
SBE <input checked="" type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	\$ <u>12,305.00</u>

*certified as both an SBE and a State MBE

TOTAL SBE-M/WBE PARTICIPATION: \$ 12,305.00

CONSULTANT REP: Humiston DATE: 11-10-08

DIVISION DIRECTOR: [Signature] DATE: 11-13-08

APPROVED AS TO TERMS AND CONDITIONS:

ERM DIRECTOR: Richard E. Maloney DATE: 11/17/08

APPROVED AS TO FORM AND LEGAL SUFFICIENCY:

ASSISTANT COUNTY ATTORNEY: _____ DATE: _____

BOARD OF COUNTY COMMISSIONERS: _____ DATE: _____

Chair



**HUMISTON
& MOORE
ENGINEERS**

COASTAL
ENGINEERING DESIGN
AND PERMITTING

5679 STRAND COURT
NAPLES, FLORIDA 34110
FAX: 239 594 2025
PHONE: 239 594 2021

November 5, 2008

Michael Stahl
Palm Beach County DERM
2300 North Jog Road
West Palm Beach, FL 33411-2743

**Re: Task Order Scope of Work for Remainder of Response to DEP RAI #3
H&M File No. 17-030, Revised November 5, 2008.
Contract R2008-0878**

Dear Michael:

As requested, we are providing this Scope of Work for the purpose of preparing a response to Department of Environmental Protection (DEP) Request for Additional Information (RAI) #3, digitizing 2008 hardbottom from aerial photography, and to respond to the additional Request for Information from the USFWS forwarded to us on October 6, 2000.

The Scope of Work is listed below according to the number of the item in the DEP RAI. For reference, the Task number corresponding to the budget spreadsheet is in parentheses.

14. *Tasks related to computation and submittal of the Application fee are not included in this scope of work. It is understood that Palm Beach County Staff will be responsible for coordinating with DEP and responding to this item.*
21. *(Task 1) Legal Description. The deliverable will be a legal description for each individual breakwater segment as requested by DEP, provided as a hard copy and digital file.*
24. *(Task 2) Prepare full sized construction plans. This will include a site specific survey at each breakwater segment location and foundation design specific to site conditions to generate individual plans for each breakwater segment based on measured elevations within the footprint of each segment. The deliverable will be a reproducible set of construction plans and a disk containing the plans in a digital CAD file.*
25. *(Task 3) Update reduced size permit construction plans. The deliverable will include a site specific survey at each breakwater segment location and individual plans for each breakwater segment based on measured elevations within the footprint of each segment as shown on the full sized plans, reformatted to accommodate DEP's request for the reduced size plans. The deliverable will be a reproducible set of construction plans and a disk containing the plans in a digital pdf and AutoCAD dwg file.*

31. *(Task 4) Coordination with the USFWS on preparation of a Biological Opinion. Involvement by consultant is limited to providing supporting documentation related to previous submittals as may be requested by USFWS staff. It is understood that Palm Beach County Staff will be responsible for coordinating with and responding to requests for additional information from USFWS. The deliverable for this item will be supporting documentation related to previous submittals as may be requested by USFWS staff. This does not include any additional data collection, analysis, or report preparation.*

This task also includes a response to the October 6 Request for Additional Information from the USFWS. It is anticipated that this will include a conference call with USFWS staff and the Corps of Engineers, coordination with Palm Beach County staff, and a written response to the RAI which will be the deliverable for this task. Requested information on environmental studies will include the Shannon-Weaver Index of Diversity analysis as described above under DEP RAI item 33 (Task 5) which will be incorporated in the deliverable. This response will be prepared based on previously collected data and results of completed analyses

33. *(Task 5) Preparation of a monitoring plan. This will include coordination with DEP Staff, Palm Beach County staff, and CSA to develop monitoring criteria, guidelines, and schedule. The deliverable will be a monitoring plan for submittal for DEP review. The monitoring plan will include the physical monitoring of the beach and near shore area at a resolution suitable for documenting beach salient responses to each breakwater segment and evaluation of project performance, and it will include development of criteria, or triggers, for determining the need for implementing a contingency plan, as required by DEP. Triggers will be established for evaluating downdrift effects and salient or tombolo formation. A conceptual Contingency Plan describing responses to potential impacts will be included. The Contingency Plan will include an operation and maintenance plan that will identify conditions and actions that may be taken by the County without the need for additional regulatory approval, conditions and actions such as project modification that would require minor permit modification, and conditions and actions including the need for the Phase II concept consisting of additional breakwater segments and a terminal structure at the south end of the project area. The Monitoring Plan will incorporate the environmental monitoring plan to be prepared by CSA, and statistical analysis based on the Shannon Weaver Index as requested by the USFWS, also to be prepared by CSA.*

Additional Task which are not part of the DEP RAI included in this Scope of Work are::

(Task 6) Digitize 2008 Hardbottom. Digitize 2008 hardbottom, between the same limits used for previous mapping generally described as being between DEP Reference Monuments R-60 to R-69, from aerial photographs to be provided by Palm Beach County. The deliverable will be a hardbottom map provided as hardcopy and CAD or GIS digital file.

(Task 7) Prepare monthly status reports for Palm Beach County. The budget for this task is based on preparation of 12 status reports.

We propose to provide these services under a budget as provided on the attached spreadsheet, at a cost of \$123,338.89.

Satisfaction of the DEP application completion items, and satisfaction of the USFWS requirements for the BO, are determinations that will be made by agency staff, and responses to any additional requests for information beyond what can be provided under the budget for this scope of work, such as additional field work or computer analysis, will be provided as Additional Services under a separate budget and scope of work.

Attached is a spreadsheet which itemizes the estimated hours by staff designation and subconsultant expenses. Please call if you have any questions.

Please call me if you have any questions.

Sincerely yours,

HUMISTON & MOORE ENGINEERS

Ken Humiston

Kenneth K. Humiston, P.E.

REVISED BUDGET FOR SINGER ISLAND EROSION CONTROL PROJECT, ENVIRONMENTAL ITEMS, DIGITIZING AERIALS, FWS RAI AND DEP RAI #3																					
PROJECT: 0674 Singer Island Phase II, H&M File No. 17-030 (Contract R2008)		Humiston & Moore Engineers: Position Titles, Rates, and Hours											Subconsultants					Total Expenses	Total Cost		
DATE	1/22/2007 revised 12/18/07, 01/10/08, 9/5/08, 9/12/08	Proj Mgr	Sr Modeler	Prj Admin	Engr III	Mod Tech	ACAD Tech	Enviro	Clerical	Admin	Total H&M	Total H&M	Expense	Continental	Sea	Betsy	Total Expenses	Total Cost			
Task	Description (DEP RAI Item #)	\$181.91	\$159.18	\$100.28	\$95.51	\$89.14	\$83.38	\$71.83	\$67.84	\$60.64	\$53.06	Hours	Fee	Shelf Assoc	Diversified, Inc.	Lindsay, Inc.	& Subconsultants	of Task			
1.0	Legal descriptions of breakwater segments (#21)	1.00	0.00	0.00	8.00	0.00	0.00	2.00	0.00	0.00	1.00	12.00	\$1,142.31	\$0.00	\$0.00	\$1,525.00	\$0.00	\$1,525.00	\$2,667.31		
2.0	Plans (#24) and Foundation Design	20.00	20.00	20.00	40.00	80.00	80.00	120.00	0.00	0.00	10.00	350.00	\$32,125.20	\$1,304.00	\$0.00	\$10,780.00	\$0.00	\$12,084.00	\$44,209.20		
3.0	Reduced Plans (#25)	2.00	0.00	0.00	10.00	0.00	40.00	10.00	0.00	0.00	0.00	62.00	\$5,370.42	\$100.00	\$0.00	\$0.00	\$0.00	\$100.00	\$5,470.42		
4.0	FWS RAI Response and B. O. Coordination (#31)	18.00	18.00	8.00	0.00	10.00	0.00	0.00	0.00	3.00	8.00	83.00	\$8,075.84	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8,075.84		
5.0	Monitoring Plan (#33)	30.00	40.00	30.00	40.00	40.00	20.00	20.00	0.00	0.00	10.00	230.00	\$25,849.70	\$100.00	\$22,482.00	\$0.00	\$0.00	\$22,582.00	\$48,111.70		
6.0	Digitize 2008 Hardbottom (Not an RAI Item)	4.00	0.00	0.00	8.00	0.00	40.00	10.00	0.00	0.00	0.00	62.00	\$5,543.22	\$100.00	\$0.00	\$0.00	\$0.00	\$100.00	\$5,643.22		
7.0	Status Reports (Not an RAI Item)	22.00	8.00	22.00	10.00	0.00	0.00	0.00	0.00	0.00	8.00	70.00	\$8,861.20	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8,861.20		
Totals:		95.00	86.00	80.00	116.00	110.00	160.00	162.00	0.00	3.00	37.00	849.00	\$86,967.89	\$1,604.00	\$22,482.00	\$12,305.00	\$0.00	\$36,371.00	\$123,336.89		
Notes:																					
Hours listed above are provided for estimates only.																					
Estimated Anticipated Expenses																					
2. Estimated costs of copies, exhibits, for submittals to agencies																					
3. Estimated expenses associated with construction plans, including plotting check copies and final plans.																					
5. Estimated costs of copies, exhibits, bindings, for submittals to agencies																					
6. Estimated costs of copies, exhibits, submittals.																					
*Actual expense amounts will be based on actual task requirements which will be determined during the course of the work.																					
As requested, the following is an example breakdown of the kind of expenses that may be incurred:																					
	Shipping		131 @		\$13.00		\$169.00														
	24" X 36" Plots		135 @		\$10.00		\$1,350.00														
	Copies, Color		310 @		\$0.10		\$31.00														
	Copies, Plans		75 @		\$0.72		\$54.00														
	Total						\$1,604.00														
Expenses are not limited to the items listed in this illustration. It is not possible to forecast what actual expenses will be incurred, and this should not be construed as in any way being a representation of the actual breakdown of expenses that will be billed.																					

17



CSA International, Inc.

www.csaintl.com

8502 SW Kansas Avenue
Stuart, Florida 34997

Phone: 772-219-3000
Fax: 772-219-3010

3 October 2008

Mr. Ken Humiston, P.E.
Humiston & Moore engineers
5679 Strand Court
Naples, Florida 34110

RE: Revised Singer Island Cost Estimate for Preparation of a Monitoring Plan with Statistical Analysis of Field Data.

Dear Mr. Humiston:

CSA International, Inc. (CSA) has prepared a revised cost estimate for the preparation of a Monitoring Plan and the additional performance of statistical analyses of the data collected during the field investigation per your request. Although the RAI#3 requests that Shannon Weiner analysis be performed, per your request, our staff spoke directly with Jeff Howe with FWC and he requested different statistical analysis be performed that will be more useful than then Shannon Weiner. The analyses he requested are included in the below table. Listed below is our basis of estimate as outlined in the attached cost spreadsheet.

TASK	ITEM	COST
2.14 Task 5	<ul style="list-style-type: none">Prepare a post construction Monitoring Plan for the project area.	\$16,132
	<ul style="list-style-type: none">CSA will be able to coordinate Monitoring Plan requirements with Vladimir Kosmyrin of FDEP by phone. No travel for meetings is included.	
Deliverables	<ul style="list-style-type: none">Monitoring Plan	
2.14 Task 5	<ul style="list-style-type: none">Perform statistical analysis on the benthic organism and fish data collected during the field surveys. Analyses includes calculating diversity and evenness using Expected number of species, probability of interspecific encounter, and multivariate comparison using the epibiota and fish data.	\$6,330
	<ul style="list-style-type: none">	
Deliverables	<ul style="list-style-type: none">Statistical analyses and interpretation results document.	
Total		\$22,462

CSA has used the 2008 labor category rates for this cost estimate, which are based on our revised rates for all coastal engineering firms and was previously approved for use by PBC. If you have any questions regarding this cost estimate or the associated basis of estimate, please call me at (772) 219-3024 to discuss.

Best Regards,

Kim Olsen
Senior Scientist

Al Hart, PhD
Science Director/Vice President

8

Palm Beach County Singer Island Statistical Analysis

CSA International, Inc.

October 3, 2008

PROPRIETARY COST DATA

			FY 08		Monitoring Plan		Statistical Analysis		GRAND TOTAL	
	FUNCTION	RATE	Hrs	Cost	Hrs	Cost	Hrs	Cost	Hrs	Cost
	Senior Scientist 2	\$179.21	50	\$8,961.00		\$0.00	50	\$8,961.00		
	Senior Scientist 1	\$150.54	8	\$1,204.00	4	\$602.00	12	\$1,806.00		
	Senior Scientist 1	\$150.54	24	\$3,613.00	26	\$3,914.00	50	\$7,527.00		
	Project Scientist 3	\$111.11		\$0.00		\$0.00	0	\$0.00		
	Project Scientist 3	\$111.11		\$0.00		\$0.00	0	\$0.00		
	Project Scientist 2	\$89.61		\$0.00	10	\$896.00	10	\$896.00		
	GIS	\$82.44		\$0.00		\$0.00	0	\$0.00		
	Project Scientist 1	\$75.27		\$0.00	6	\$452.00	6	\$452.00		
	Operations Supervisor	\$96.77		\$0.00		\$0.00	0	\$0.00		
	Technician 2	\$78.85		\$0.00		\$0.00	0	\$0.00		
	Editing	\$100.36	12	\$1,204.00	2	\$201.00	14	\$1,405.00		
	Admin	\$64.52		\$0.00	2	\$129.00	2	\$129.00		
	WP	\$68.10	16	\$1,090.00	2	\$136.00	18	\$1,226.00		
	Graphics	\$93.19		\$0.00		\$0.00	0	\$0.00		
TOTAL LABOR COST			110	\$16,072.00	52	\$6,330.00	162	\$22,402.00		
OTHER DIRECT COSTS			Units	Cost	Units	Cost	Units	Cost		
	Admin									
	Photocopies	\$0.12	500	\$60.00		\$0.00	500	\$60.00		
	Subtotal			\$60.00		\$0.00	0	\$60.00		
	CSA Equipment Rental	Day Rates								
	23' Parker Survey Vessel	\$450.00		\$0.00		\$0.00	0	\$0.00		
	Navigation Software & DGPS System	\$300.00		\$0.00		\$0.00	0	\$0.00		
	Pentium computer	\$66.00		\$0.00		\$0.00	0	\$0.00		
	Onan Generator	\$50.00		\$0.00		\$0.00	0	\$0.00		
	Dive Gear	\$20.00		\$0.00		\$0.00	0	\$0.00		
	Scuba Tanks	\$8.00		\$0.00		\$0.00	0	\$0.00		
	parker Gas	\$4.00		\$0.00		\$0.00	0	\$0.00		
	Subtotal			\$0.00		\$0.00		\$0.00		
	Travel:									
	Drinks/ice/lunch	\$20.00		\$0.00		\$0.00	0	\$0.00		
	Truck	\$150.00		\$0.00		\$0.00	0	\$0.00		
	Mileage	\$25.000		\$0.00		\$0.00	0	\$0.00		
	Subtotal			\$0.00		\$0.00		\$0.00		
TOTAL OTHER DIRECT COSTS				\$60.00		\$0.00		\$60.00		
TOTAL ESTIMATED COST				\$16,132.00		\$6,330.00		\$22,462.00		

6



SEA Diversified, Inc.
1200 NW 17th Avenue, Suite 3
Delray Beach, Florida 33445
Phone: 561-243-4920
Facsimile: 561-243-4957

4640 Lipscomb Street, Suite 12
Palm Bay, Florida 32905
Phone: 321-984-7268
Facsimile: 321-984-7270

September 17, 2008

Mr. Ken Humiston, P.E.
Humiston & Moore Engineers
5679 Strand Court, Suite 110
Naples, Florida 34110

Sent via Electronic Mail 09-17-08

**RE: Proposal for Professional Surveying Services
Singer Island Erosion Control Project
SSL Legal Descriptions
Sea Diversified P.N. 08-1413**

Dear Ken:

As per our discussions with Mr. Marc Damon, Sea Diversified, Inc. (SDI) is pleased to submit the following cost proposal for survey services pertaining to the Singer Island Breakwater permitting process. Services shall include modifying the previously prepared Sovereign Submerged Lands Easement documents pursuant to the requirements of Florida Department of Environmental Protection (FDEP) RAI Number 3 (FDEP File No. 0267233-001-JC). Specifically, this shall include the preparation of individual legal descriptions for each breakwater based on the proposed footprint of each structure provided by Humiston and Moore Engineers. The individual descriptions shall be incorporated and made part of a single easement package for submittal to the FDEP, Division of State Lands, by others. The final sketch and description(s) shall be certified by a Professional Surveyor and Mapper, registered in the State of Florida.

Total lump sum fee for the referenced survey shall be \$ 1,525.00.

It is noted that the cost for this service does not include any fieldwork pertaining to the location of the Mean High Water Line (MHWL) or any other tasks that may be required as part of the FDEP. It is assumed that all required fieldwork has been completed as part of prior surveys and/or will be conducted as part of future task orders.

Should you have questions or require additional information please do not hesitate to contact us at your convenience. Should you agree with the scope of work and subject fees, please execute below and return one copy for our records. We appreciate this opportunity to assist you with this project and look forward to hearing from you soon.

Sincerely,

A handwritten signature in black ink, appearing to read "W. Sadler".

William T. Sadler Jr., P.E., P.S.M.
President

Executed this _____ day of _____, 2008

Mr. Ken Humiston, P.E.
Humiston & Moore Engineers

WTS/tm

Cost Breakdown
 Sea Diversified, Inc.
 Modified SSL Documents
 Palm Beach County
 SDI P.N. 08-1413
 September 17, 2008

SSL - Legal Descriptions of Each Breakwater

Description	Reg Hours	Reg Rate	OT Hours	OT Rate	Unit	Total
						\$0.00
3-Person Hydrographic Survey Crew	0	\$240.00		\$360.00	CH	\$0.00
3-Person GPS Survey Crew	0	\$210.00		\$315.00	CH	\$0.00
						\$0.00
Computer / CADD Operator	0	\$85.00		\$127.50	PH	\$0.00
Professional Surveyor and Mapper	12	\$115.00		\$172.50	PH	\$1,380.00
Project Manager	1	\$145.00		\$217.50	PH	\$145.00
Expenses						
Per Diem (Field Crew)		\$75.00		N/A	PP/PD	\$0.00
Per Diem (Project Manager)		\$125.00		N/A	PD	\$0.00
Total Cost:						\$1,525.00

Notes:

1. Topographic crew rates include (1) party chief, (1) instrument person, survey helper(s), conventional survey equipment and vehicle.
2. Hydrographic crew rates include (1) party chief, (1) instrument person / vessel operator, survey helper(s), 23' survey launch w/ fuel, automated hydrographic data acquisition system and vehicle.
3. GPS crew rates include (1) party chief, (1) instrument person, survey helper(s), High Order GPS equipment (Trimble or equivalent) and vehicle.
4. Side Scan Sonar, Magnetometer and Sub-Bottom Profiler System rates are without operator and are based on shallow water operations (water depths less than 100 feet).
5. All labor rates include labor multiplier (overhead and fringe) and operating margin.
6. Overtime (over 40 hours per week) shall be 1.5 times regular hourly rate.



SEA Diversified, Inc.
1200 NW 17th Avenue, Suite 3
Delray Beach, Florida 33445
Phone: 561-243-4920
Facsimile: 561-243-4957

4640 Lipscomb Street, Suite 12
Palm Bay, Florida 32905
Phone: 321-984-7268
Facsimile: 321-984-7270

September 11, 2008

Mr. Ken Humiston, P.E.
Humiston & Moore Engineers
5679 Strand Court, Suite 110
Naples, Florida 34110

Sent via Electronic Mail 09-11-08

**RE: Proposal for Professional Surveying Services
Singer Island Erosion Control Project
Beach and Offshore Profile Survey – Pre-Construction Survey
Sea Diversified P.N. 08-1402**

Dear Ken:

As per our discussions, Sea Diversified, Inc. (SDI) is pleased to submit the following cost proposal to perform a beach and offshore profile survey of the Singer Island project site. Survey data shall be collected along profiles extending from R-60.5 to R-66.5 as described on sketches provided by your office on September 4, 2008. Specifically this shall include the following:

- Two (2) profiles each at eleven (11) proposed breakwater structure locations, totaling twenty-two (22) profile lines. Profiles shall extend 800 feet seaward of the structure.
- One (1) profile between each proposed breakwater segment, totaling ten (10) profile lines. Profiles shall extend 800 feet seaward of the structure.
- (2) profiles, R-60.5 and R-66.5, at the north and south limits of the project area. Profiles shall extend along historical FDEP azimuths to an offshore distance specified by Humiston and Moore Engineers.

Details of the scope of work are as follows:

General:

Vertical and horizontal data shall be collected and presented relative to the National Geodetic Vertical Datum (NGVD) of 1929 and the Florida State Plane Coordinate System, East Zone, North American Datum (NAD), 1983/90, respectively. Data shall also be provided relative to the North American Vertical Datum of 1988 if requested. All work shall be conducted in accordance with Rule 62B-41.008(1)(h), F.A.C. and shall meet or exceed the Minimal Technical Standards set forth by the Florida Board of Professional Surveyors and Mappers in Chapter 61G17-6, Florida Administrative Code, pursuant to Section 472.027, Florida Statutes. Work shall be conducted under the direct supervision and responsible charge of a Professional Surveyor and Mapper registered in the State of Florida. It is assumed that all control for the referenced profiles has been established with no additional requirement for verification.

Field Data Collection:

Upland profile data shall be collected via Real-Time Kinematic (RTK) GPS or conventional level, rod and chain. Data shall be collected at twenty-five (25) foot intervals along each profile and at all grade breaks or material changes. Profiles shall extend from the crest of the first dune, dune escarpment or rigid structure to the seaward limits described above. It will be the objective to maintain a minimum overlap of fifty (50) feet between onshore and offshore data.

12



**Proposal for Professional Surveying Services
Singer Island Erosion Control Project
Pre-Construction Survey
Sea Diversified P.N. 08-1402
September 11, 2008
Page 2 of 2**

Offshore surveys shall be conducted using a 23-foot survey launch with enclosed cabin and centrally located hull-mounted transducer. Soundings shall be collected using an Odom depth sounder / recorder. For horizontal vessel positioning, a Trimble real-time Differential Global Positioning System (DGPS) shall be used with differential corrections provided via Coast Guard Beacon. For vessel navigation and data collection / storage, the Coastal Oceanographics "Hypack" system is utilized. Water levels shall be recorded from a tide staff set in proximity to the project at fifteen (15) minute intervals throughout the duration of the offshore survey.

Data Processing and Final Deliverables:

Upon completion of field survey activities, data will be edited and reduced to the project datum and formatted as required for bathymetric modeling and chart preparation. Final data, reduced to an x,y,z, ASCII format will be imported to a CADD environment and subsequently translated to Digital Terrain Model (DTM) for preparing contour charts. Final charts shall include the following:

- Contours depicted at intervals of one (1) foot.
- Horizontal and vertical control tabulation encompassing coordinates of all reference monuments and profile azimuths.
- Location with coordinates of all FDEP survey reference monuments within the limits of the project including the nearest adjacent monument both north and south of the project limits.
- Chart scale, north arrow, dates of the survey and all applicable notes pertinent to the survey.
- Signature and seal of a Florida registered Professional Surveyor and Mapper
- Charts shall be provided on 24" x 36" paper media. Electronic CADD and data files (ASCII, (.xyz) format) shall be provided if requested.

Total lump sum fee for the referenced survey shall be \$10,780.00.

Should you have questions or require additional information please do not hesitate to contact us at your convenience. Should you agree with the scope of work and subject fees, please execute below and return one copy for our records. We appreciate this opportunity to assist you with this project and look forward to hearing from you soon.

Sincerely,

William T. Sadler Jr., P.E., P.S.M.
President

WTS/tm

Executed this _____ day of _____, 2008

Mr. Ken Humiston, P.E.
Humiston & Moore Engineers

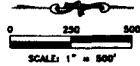
Cost Breakdown
 Sea Diversified, Inc.
 Pre-Construction Beach Profile Survey
 Palm Beach County
 SDI P.N. 08-1402
 September 4, 2008
Beach and Offshore Profile Survey

Description	Reg Hours	Reg Rate	OT Hours	OT Rate	Unit	Total
						\$0.00
3-Person Hydrographic Survey Crew	12	\$240.00		\$360.00	CH	\$2,880.00
3-Person GPS Survey Crew	24	\$210.00		\$315.00	CH	\$5,040.00
						\$0.00
Computer / CADD Operator	16	\$85.00		\$127.50	PH	\$1,360.00
Professional Surveyor and Mapper	8	\$115.00		\$172.50	PH	\$920.00
Project Manager	4	\$145.00		\$217.50	PH	\$580.00
Expenses						
Per Diem (Field Crew)		\$75.00		N/A	PP/PD	\$0.00
Per Diem (Project Manager)		\$125.00		N/A	PD	\$0.00
Total Cost:						\$10,780.00

Notes:

1. Topographic crew rates include (1) party chief, (1) instrument person, survey helper(s), conventional survey equipment and vehicle.
2. Hydrographic crew rates include (1) party chief, (1) instrument person / vessel operator, survey helper(s), 23' survey launch w/ fuel, automated hydrographic data acquisition system and vehicle.
3. GPS crew rates include (1) party chief, (1) instrument person, survey helper(s), High Order GPS equipment (Trimble or equivalent) and vehicle.
4. Side Scan Sonar, Magnetometer and Sub-Bottom Profiler System rates are without operator and are based on shallow water operations (water depths less than 100 feet).
5. All labor rates include labor multiplier (overhead and fringe) and operating margin.
6. Overtime (over 40 hours per week) shall be 1.5 times regular hourly rate.

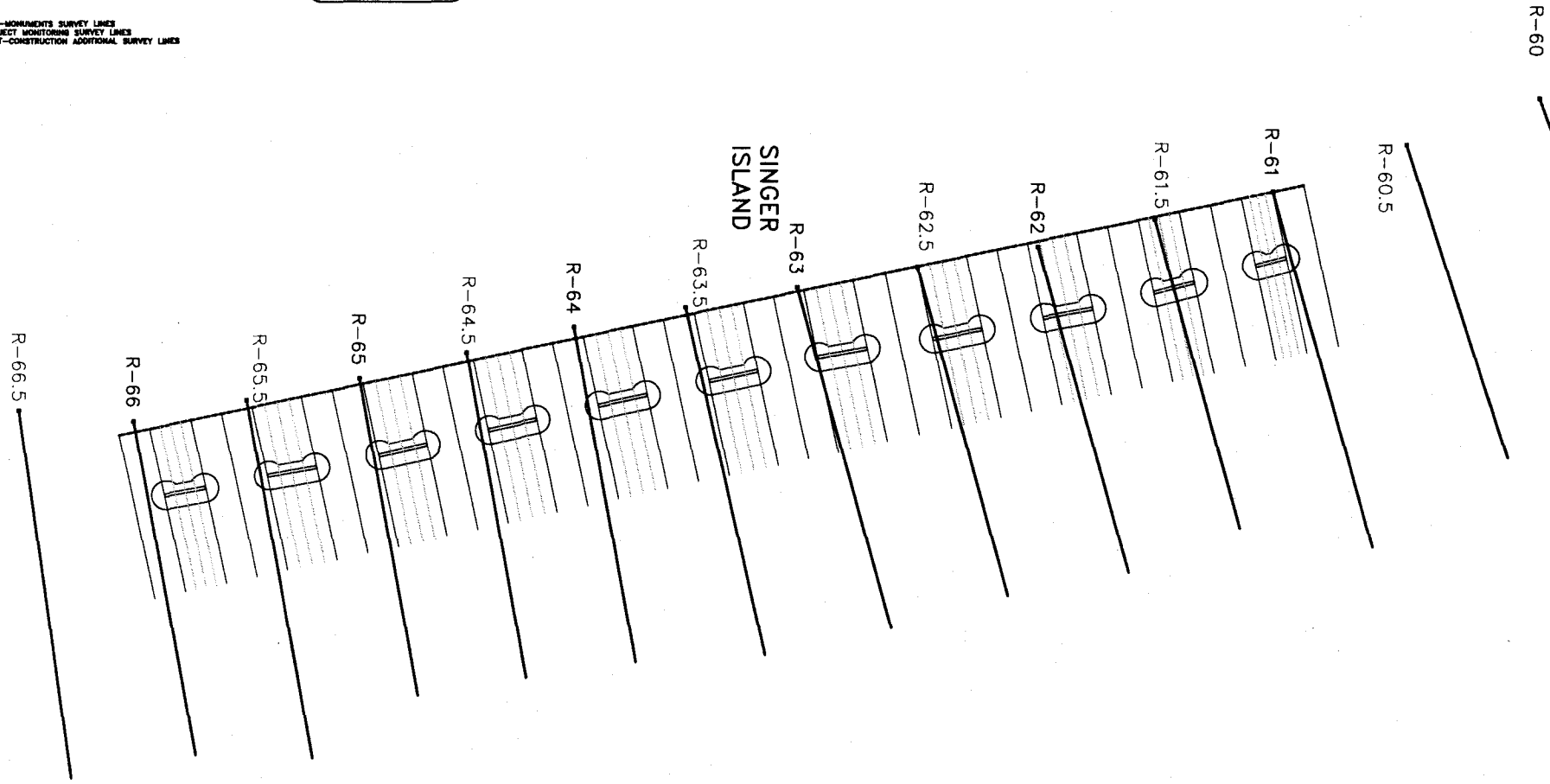
DATE OF PHOTOGRAPH: 2008.
PHOTOGRAPH PROPERTY OF
PALM BEACH COUNTY.
EXHIBIT FOR ILLUSTRATIVE
PURPOSES ONLY.




DRAFT

— DNR—MONUMENTS SURVEY LINES
— PROJECT MONITORING SURVEY LINES
— POST—CONSTRUCTION ADDITIONAL SURVEY LINES

SINGER
ISLAND



15

 HUMISTON & MOORE ENGINEERS <small>COASTAL ENGINEERING DESIGN AND PERMITTING</small>	SINGER ISLAND EROSION CONTROL PROJECT MONITORING PLAN - PRELIMINARY			5679 STRAND COURT NAPLES, FL 34110	
	FOR: CUSTOMER			FAX: (239) 594-2025	
	DATE: X/X/XX	FILE: AERIAL	SCALE: 1"=100'	PHONE: (239) 594-2021 www.humistonandmoore.com	
JOB: 13-XXX	DATUM: NONE	FIGURE: 1 OF 1			

R2008 0878

**CONTRACT FOR PROFESSIONAL CONSULTANT SERVICES
BETWEEN PALM BEACH COUNTY AND
HUMISTON & MOORE ENGINEERS**

This is a Contract made as of MAY 20 2008, by and between Palm Beach County, a Political Subdivision of the State of Florida, by and through its Board of County Commissioners, hereinafter referred to as the COUNTY, and Humiston and Moore Engineers, 5679 Strand Court, Naples, Florida 34110, an engineering firm, a corporation, authorized to do business in the State of Florida, hereinafter referred to as the CONSULTANT, whose Federal I.D. Number is 65-0262357.

In consideration of the mutual promises contained herein, the COUNTY and the CONSULTANT agree as follows:

ARTICLE 1 - SERVICES

The CONSULTANT's responsibility under this Contract is to perform professional coastal and marine engineering services and incidental services as more specifically set forth in the Scope of Work attached hereto as Exhibit "A". In the event services are required to be performed that are not described in Exhibit "A", but are within the general scope of services, the COUNTY and the CONSULTANT hereby reserve the right to negotiate task orders covering the desired services.

The CONSULTANT shall conduct professional services in accordance with Chapters 471 and 472, Florida Statutes and other applicable local, state and federal standards. The CONSULTANT shall conduct topographic and hydrographic survey work in compliance with the U.S. Army Corps of Engineers "Technical Requirements for Surveying, Mapping and Photogrammetric Services," Revised March 1989 and the U.S. Army Corps of Engineers "Engineering Design: Hydrographic Surveying," EM 1110-2-1003, January 1, 2001, and the most current Florida Department of Environmental Protection specifications for topographic (section 02000) and bathymetric (section 02100) surveying.

ARTICLE 2 - PERIODS OF SERVICE AND SCHEDULES

This Contract commences on the day and year first written above and ends two years later. At the option of the COUNTY, the Contract can be renewed for an additional one-year period.

Reports and other work items shall be delivered or completed according to schedules established in each task order.

ARTICLE 3 - ASSIGNMENT OF WORK

The CONSULTANT shall provide professional services on a task order basis. A copy of the Task Order form and Task Change Order form are attached hereto as Exhibit "C" and Exhibit "D". The COUNTY reserves the right to modify these forms during the term of the Contract.

ARTICLE 32 - CRIMINAL HISTORY RECORDS CHECK

The CONSULTANT shall comply with the provisions of Ordinance 2003-030, the Criminal History Records Check Ordinance ("Ordinance"), if CONSULTANT's employees or subcontractors are required under this contract to enter a "critical facility" as identified in Resolution R-2003-1274. The CONSULTANT acknowledges and agrees that all employees and subcontractors who are to enter a "critical facility" will be subject to a fingerprint based criminal history records check. Although COUNTY agrees to pay for all applicable FDLE/FBI fees required for criminal history record checks, the CONSULTANT shall be solely responsible for the financial, schedule, and staffing implications associated in complying with Ordinance 2003-030.

IN WITNESS WHEREOF, the Board of County Commissioners of Palm Beach County, Florida has made and executed this Contract on behalf of the COUNTY and CONSULTANT has hereunto set its hand the day and year above written.

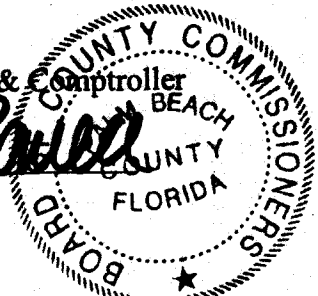
R2008 0878
MAY 20 2008

ATTEST:

Sharon R. Bock, Clerk & Comptroller

By: *Tracy Powell*

Deputy Clerk



PALM BEACH COUNTY

BOARD OF COUNTY COMMISSIONERS:

By: *Addie L. Greene*

Addie L. Greene, Chairperson

WITNESS:

Celia M. Fellows

Signature

Celia M. Fellows

Name (type or print)

CONSULTANT:

Humiston & Moore Engineers

Company Name

Kenneth K. Humiston

Signature

Kenneth K. Humiston, P.E.

Name (type or print)

President

Title

(corp.seal)

APPROVED AS TO FORM AND LEGAL SUFFICIENCY:

By: *Steven C. Wray*

Assistant County Attorney

APPROVED AS TO TERMS AND CONDITIONS:

By: *Richard E. Walesky*

Richard E. Walesky, Director
Dept. of Environmental Resources Mgmt.



17-030 PBC
Rate Sheet
Exhibit B
Humiston and Moore Engineers

Dated: 4-4-08

19

Category (Abbreviation)	Name	Actual Hourly Salary Rate	Multiplier 2.85 for labor rates	Contract billing rate
-------------------------	------	---------------------------	---------------------------------	-----------------------

Labor Category

Project Manager, Prof Engineer	K. Humiston	\$ 63.83	Wages	\$ 181.91
Assistant Project Manager, Prof Engineer	B. Moore	\$ 63.83	Wages	\$ 181.91
Senior Modeler (SM)	M. Dabees	\$ 55.85	Wages	\$ 159.18
Modeling Technician (M2)	M. Damon	\$ 31.28	Wages	\$ 89.14
Modeling Technician I (M1)	J. Foster	\$ 29.26	Wages	\$ 83.38
Engineer III (E3)	S. Foge	\$ 33.51	Wages	\$ 95.51
Enviornmental Engineer (EE)	P. Lewis	\$ 23.73	Wages	\$ 67.64
AutoCAD Technician I (AC1)	A. Miller	\$ 25.13	Wages	\$ 71.63
Project Administrator/Coordinator (PC)	C. Fellows	\$ 35.19	Wages	\$ 100.28
Administrative (AD)	K. Defedericis	\$ 18.62	Wages	\$ 53.06
Clerical (CL)	M. Goldie	\$ 21.28	Wages	\$ 60.64

Other Direct Costs**

In-house color copy expenses			PerPage	\$ 0.10
In-house plotting expenses for 24 x 36 inch sheet	Standard Paper		PerSheet	\$ 10.00
In-house plotting expenses for 24 x 36 inch sheet	Photo/BondPaper		PerSheet	\$ 25.00

Equipment

Turbidity Meter/per day				\$ 25.00
18' Boat Rental/per day				\$ 100.00
Diving equipment/per person/per day				\$ 50.00

Black and white copies and other miscellaneous office expenses are not billed as Other Direct Costs. The time spent is billed in staff time. The expense is included as overhead. Courier, FedEx and Other Direct Costs are proposed during task order negotiations at the cost billed to Humiston & Moore Engineers.

** Approval for Other Direct Costs not listed will be submitted for approval during task order or change order negotiation prior to incurring.

22