

**PALM BEACH COUNTY  
BOARD OF COUNTY COMMISSIONERS**

**AGENDA ITEM SUMMARY**

**Meeting Date:** September 13, 2011

Consent

Regular

Workshop

Public Hearing

**Department**

**Submitted By:** Environmental Resources Management

**Submitted For:** Environmental Resources Management

**I. EXECUTIVE BRIEF**

**Motion and Title:** Staff recommends motion to approve: Task Order No. 1297-02 to a continuing Contract (R2010-1297) with Olsen Associates, Inc. (Olsen) in the amount of \$428,804 for planning, design, and permitting of the third nourishment of the Ocean Ridge Shore Protection Project.

**Summary:** The Contract with Olsen, a Jacksonville, Florida company, was approved on August 17, 2010 (R2010-1297). Task Order 1297-01 was approved on October 5, 2010 and included planning, borrow area development, and preliminary engineering and design of the beach fill project. This Task Order 1297-02 authorizes Olsen to prepare, submit, and coordinate the Federal Decision Document (Limited Reevaluation Report - LRR) as well as State and Federal permits for the Ocean Ridge Shore Protection Project with a completion date of December 15, 2012. The Task Order is funded by tourist development taxes. State and Federal funding agreements are also anticipated. There is 22.9% Small Business Enterprise and Minority/Woman Business Enterprise (SBE-M/WBE) sub-consultant participation on the Task Order. Olsen committed to an overall 38% SBE-M/WBE participation in the Contract. Olsen has achieved 25.2% cumulative SBE-M/WBE participation on the Contract including this Task Order. District 4 (JM)

**Background and Justification:** The beach at Ocean Ridge was nourished in 1998 and 2005. The federally estimated nourishment interval is six (6) years. Since the rock groin field was installed in 1997 at the north end of the project, only 1.1 miles out of the original 1.42 total project miles have required sand fill. Cost-sharing of approximately 50% Federal and 25% State is anticipated for this nourishment project.

**Attachments:**

1. Task Order No. 1297-02 with Contract History
2. Contract (pages 1, 19, Exhibit B Fee Schedule)

**Recommended by:** Richard E. Walsby 8/17/11  
 Department Director Date

**Approved by:** [Signature] 9/1/11  
 County Administrator Date

**II. FISCAL IMPACT ANALYSIS**

**A. Five Year Summary of Fiscal Impact:**

<b>Fiscal Years</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>
<b>Capital Expenditures</b>	_____	_____	_____	_____	_____
<b>Operating Costs</b>	<u>\$428,804</u>	_____	_____	_____	_____
<b>External Revenues</b>	_____	_____	_____	_____	_____
<b>Program Income (County)</b>	_____	_____	_____	_____	_____
<b>In-Kind Match (County)</b>	_____	_____	_____	_____	_____
<b>NET FISCAL IMPACT</b>	<u>\$428,804</u>	_____	_____	_____	_____
<b># ADDITIONAL FTE POSITIONS (Cumulative)</b>	_____	_____	_____	_____	_____

Is Item Included in Current Budget? Yes  No \_\_\_\_\_  
 Budget Account No.: Fund 3652 Department 381 Unit M015 Object 3120  
 Program \_\_\_\_\_

**B. Recommended Sources of Funds/Summary of Fiscal Impact:**

Tourist development taxes.

**C. Department Fiscal Review:**

*JH*

**III. REVIEW COMMENTS**

**A. OFMB Fiscal and /or Contract Dev. and Control Comments:**

*N. Diaz 8/28/11*  
 OFMB *8/25/11 pm*

*Dr. J. Jacob 8/30/11*  
 Contract Development and Control  
*8-30-11 B. Scheeler*

**B. Legal Sufficiency:**

*Maureen P. Quatt 8-25-11*  
*Jane C. Meyer 9/1/11*  
 Assistant County Attorney

This item complies with current County policies.

**C. Other Department Review:**

\_\_\_\_\_  
 Department Director

**TASK ORDER**

TASK ORDER: 1297-02 CONSULTANT: Olsen Associates, Inc.

ACCOUNT: 3652-381-M015-3120-6505 CONTRACT: R2010-1297  
[Fiscal approval of Budget Availability: 8/3/11]

PROJECT MANAGER: Tracy Logue PHONE: 561-233-2491

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

PROJECT NAME: Ocean Ridge Shore Protection Project 3 – LRR and Permitting

LOCATION/DISTRICT #: Ocean Ridge / District 4

TASK DESCRIPTION (use additional pages if necessary): The Consultant shall provide professional services for the Federal Decision Document, as well as State and Federal permits for the Ocean Ridge Shore Protection Project 3, as described in the attached proposal dated August 12, 2011.

DELIVERABLES: See scope of work dated 8/12/2011.

TASK ORDER TYPE: FIXED PRICE \$405,780.00 DUE DATE: 12/15/2012  
NOT-TO-EXCEED \$23,024.00

TOTAL AMOUNT \$ 428,804.00

(Check where appropriate)

for Contract and Subcontract Amounts:

	Black	Hispanic	Women	Other (specify)	White Male
M/WBE (State) <input checked="" type="checkbox"/>	\$ _____	\$ _____	\$ <u>86,305.00</u>	\$ _____	
SBE-M/WBE* <input type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	
SBE <input checked="" type="checkbox"/>	\$ _____	\$ _____	\$ _____	\$ _____	\$ <u>11,949.00</u>

\*certified as both an SBE and a State MBE

TOTAL SBE-M/WBE PARTICIPATION: \$ 98,254.00

CONSULTANT REP: [Signature] DATE: 12/06/11

DIVISION DIRECTOR: [Signature] DATE: 8-16-11

APPROVED AS TO TERMS AND CONDITIONS:

ERM DIRECTOR: [Signature] DATE: 8/17/11

APPROVED AS TO FORM AND LEGAL SUFFICIENCY:

ASSISTANT COUNTY ATTORNEY: [Signature] DATE: 9/1/11

BOARD OF COUNTY COMMISSIONERS: \_\_\_\_\_ DATE: \_\_\_\_\_

Karen T. Marcus, Chair

August 12, 2011

Richard E. Walesky, Director  
Palm Beach County  
Dept. of Environmental Resources Management  
2300 North Jog Road, 4<sup>th</sup> Floor  
West Palm Beach, FL 33411-2734



**olsen**  
associates, inc.  
Coastal Engineering

Re: Ocean Ridge Shore Protection Project 3  
Task Order 2 (TO 1297-02)

Mr. Walesky,

Attached please find a revised version of supporting draft documentation for a proposed Task Order 2 of our existing contract with Palm Beach County. This version of the documents reflects revisions made based upon comments from your staff received on July 1, 2011. This Task Order will cover costs associated with the planning and execution of environmental data collection, formulation of a Biological Assessment Report, Environmental Assessment Report, Limited Reevaluation Report (LRR), JCP Application and limited JCP processing.

The total cost for this Task Order presently is \$428,804.00 which includes a lump sum amount of 405,780.00 and a not-to-exceed (NTE) amount \$23,024.00. Of the total amount, \$98,254.00, or 22.9 percent, is allocated to SBE and M/WBE certified firms.

Please contact us with questions regarding this revised submittal.

Sincerely yours,

Christopher G. Creed, P.E.  
Sr. Engineer / Vice President

Attachments

- SOW
- Cost and Supporting Documentation

**SCOPE OF CONSULTANT SERVICES FOR THE  
OCEAN RIDGE SHORE PROTECTION PROJECT 3**  
*Task Order 2: ENVIRONMENTAL SURVEYS, FEDERAL DOCUMENT (LRR) PREPARATION &  
INITIATION OF JOINT COASTAL PERMITTING (JCP)*

This Task Order provides for Coastal Engineering and Environmental Permitting Consulting Services related to the preparation, submittal and coordination of a Federal Decision Document (Limited Reevaluation Report – LRR) as well as State and Federal permits for the Ocean Ridge Shore Protection Project 3.

**1. NEARSHORE HARDBOTTOM ANALYSIS AND VERIFICATION SURVEY**

- 1.1. The CONSULTANT, through a qualified subconsultant, shall map the nearshore hardbottom edge located between FDEP monuments R-152 and R-164. The hardbottom edge shall be mapped utilizing a diver-towed taut-line radio telemetry buoy with an attached DGPS antenna, which transmits continuous positions to hydrographic survey software on board a survey vessel. Horizontal positioning shall be determined with a Trimble differential global positioning system (DGPS) technology utilizing the USCG NAVBeacon System and HYPACK navigation software. Two biologists equipped with SCUBA shall swim the hardbottom edge; one biologist shall tow the buoy system and the second biologist shall document the benthic communities along the nearshore hardbottom edge with digital video. During the survey, one of the biologists shall randomly perform measurements of vertical relief of the exposed hardbottom edge in areas of visually different hardbottom exposure/relief, and the locations of variations in vertical relief along the edge shall be geo-referenced by marking each location with DGPS targets.

In addition to the nearshore hardbottom edge mapping survey, the six permanent transects established for the 2005 Shore Protection Project shall be resurveyed for sediment line-intercept and sediment depth measurements to document existing hardbottom exposure downdrift of the project fill area. These data shall be compared to the monitoring data for the 2005 project and a letter report with associated graphics will be prepared for submittal in the Joint Coastal Permit application. Changes in sediment depth and cover will be analyzed and compared to the benthic community data presented in the final biological monitoring report for the 2005 Shore Protection Project.

The digital trackline data shall be superimposed over aerial photography to graphically compare the *in-situ* hardbottom edge with the hardbottom edge digitized from recent aerial imagery. Biologists shall review the digital video record to provide general descriptions of the dominant benthos, sediment cover, and landscape features of the nearshore hardbottom edge in relation to the vertical relief description and DGPs position information.

- 1.2. Deliverable. Deliverables shall include three (3) hardcopies and three (3) digital copies (DVDs) in PDF format of a letter report and hardbottom edge mapping results created in

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ArcMap 9.2 and an electronic line file of the hardbottom edge boundary, submitted to the COUNTY within 90 days of completion of the survey.

**2. BIOLOGICAL ASSESSMENT**

- 2.1. The CONSULTANT, through a qualified sub-consultant, shall prepare a Biological Assessment (BA) that will be used to assist U.S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS) personnel in fulfilling their obligations under the Endangered Species Act of 1973. The BA will evaluate the potential impacts that the proposed project may have on federally-listed endangered and threatened species, including but not limited to nesting loggerhead, green and leatherback sea turtles, nearshore foraging habitat for juvenile green sea turtles, Acroporid corals and their designated critical habitat, smalltooth sawfish, piping plovers, Johnson's seagrass, right whale and manatees, and describe the avoidance, minimization and conservation measures proposed by the applicant. A critical habitat effects assessment for *Acropora spp.* will be developed and approval of the assessment shall be obtained from the National Marine Fisheries Services.

A survey of offshore hardbottom adjacent to the proposed borrow site is not included in this scope of services. A survey of the offshore reefs was performed by the Palm Beach County Reef Research Team (PBCRRT) on June 26, 2011. The survey results and letter report generated by Palm Beach County Environmental Resources Management (ERM) will be used in the BA and critical habitat effects assessment for *Acropora spp.* Any additional information requested by the NMFS regarding the offshore reef survey shall be provided by Palm Beach County or require a separate authorization for additional services.

- 2.1.1. In support of the Biological Assessment and critical habitat effects assessment for *Acropora spp.*, nearshore hardbottom shall be sampled for *Acropora spp.* using the National Marine Fisheries Service (NMFS) "Recommended Survey Protocol for *Acropora spp.* in support of Section 7 Consultation." Pursuant to the approved protocol, sampling will be conducted at one sampling site per every 10,000 m<sup>2</sup> on nearshore hardbottom within the turbidity mixing zone and downdrift of the project fill area between FDEP monuments R-152 and R-164, seaward of the 6-ft contour within designated critical habitat (a minimum of 9 sample sites).

At each sampling site, a two-tiered survey shall be performed with the second tier survey dependent on the results of the tier one survey. Upon arrival at the sampling site, scientific divers will conduct a structured 20-minute swim from a

**SCOPE OF CONSULTANT SERVICES FOR THE  
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referenced center point. If less than five individual colonies are recorded within a station, data collection for each colony will include photographic documentation, largest linear dimension (branch length, width, and height), and evaluation of percent live tissue. If more than five colonies of *Acropora spp.* are encountered at a sampling site, the tier two survey shall be initiated. During the tier two survey, scientific divers will lay three belt transects (4 m x 50 m) from the referenced center point at three random bearings. Mean density, colony size (branch length, width, and height), and percent live tissue will be recorded for each colony will be recorded, and photographic documentation will be performed.

2.1.2. The CONSULTANT, through a qualified subconsultant, shall analyze the *in-situ* data and develop a map of *Acropora* distribution/density within the areas of investigation which includes data/reports from other agencies in addition to the colonies found in 2.1.1. A written report shall be prepared that summarizes the data within the study area.

2.2. Deliverable. A Draft BA which includes a critical habitat effects assessment for *Acropora spp.* shall be prepared and submitted to the COUNTY for review. The draft document shall be revised based on COUNTY'S comments and made available for submittal to the USACE-Jacksonville District for review. It is anticipated that the Jacksonville District will require additional revisions to the document. CONSULTANT shall make a maximum of two (2) discrete revisions to the document prior to production of the Final BA (one following COUNTY review and a second following USACE review).

Upon completion of revisions to the BA based comments by the COUNTY, the CONSUTANT shall prepare and provide to the COUNTY for use by the COUNTY and the regulatory/resource agencies up to twenty (20) hardcopies of the BA and twenty (20) DVD's containing a PDF version of the same document.

**3. ENVIRONMENTAL ASSESSMENT**

3.1. The CONSULTANT, through a qualified sub-consultant shall prepare an Environmental Assessment (EA) in accordance with current requirements of the USACE. The EA will contain a literature review of all existing data, monitoring reports, and published data for the project area and shorelines immediately adjacent to the project area within Palm Beach County. The EA shall include an Essential Fish Habitat Assessment (EFH) pursuant to the Magnuson Stevens Fishery and Conservation Management Act.

**SCOPE OF CONSULTANT SERVICES FOR THE  
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- 3.2. Deliverable. A Draft EA shall be prepared and submitted to the COUNTY for review. The draft document shall be revised based on COUNTY'S comments and made available for submittal to the USACE-Jacksonville District for review. It is anticipated that the Jacksonville District will require additional revisions to the document. CONSULTANT shall make a maximum of two (2) discrete revisions to the document prior to production of the Final EA (one following COUNTY review and a second following USACE review).

Upon completion of revisions to the EA based comments by the COUNTY, the CONSUTANT shall prepare and provide to the COUNTY for use by The COUNTY and the regulatory/resource agencies up to twenty (20) hardcopies of the EA and twenty (20) DVD's of containing a PDF version of the same document.

4. **LIMITED REEVALUATION REPORT (LRR)**

4.1. **Analysis and Draft Report Preparation**

4.1.1. The CONSULTANT shall prepare a Limited Reevaluation Report (LRR) in accordance with current requirements provided by of the USACE and in a manner acceptable to the USACE. The CONSULTANT shall incorporate into the LRR sufficient analyses and detail intended to verify the economics for the renourishment of those areas of beach that have been previously constructed with Federal financial assistance. The report document shall be formulated and formatted in accordance with USACE-approved procedures, which may include, but not be limited to, the following elements:

- Syllabus and Pertinent Information
- Main Text
  - Text and Summaries
  - Project Authorization and Background
  - Plan Formulation Summary
  - Plan Implementation Description
  - Cost-sharing Analysis
  - Project Recommendations
  - Project Plates
- Engineering Appendix
- Economic Appendix
- Geotechnical Appendix
- Real Estate Appendix



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- 4.1.2. The CONSULTANT shall coordinate with the USACE-Jacksonville District to produce required project MCACES Cost Estimates as required for the LRR. The CONSULTANT shall formulate and compile project-specific information required as input to the MCACES software and provide to the USACE-Jacksonville District for use in creating the MCACES estimate. The Jacksonville District will be responsible for the actual use of the USACE MCACES software.
- 4.1.3. This scope of services does not include the use of Beach-*fx*, or other detailed plan formulation models, potentially required for the reevaluation of the Ocean Ridge Shore Protection Project economics. It is understood that only a “windshield review” of economic conditions will be required as part of plan review and LRR formulation.
- 4.1.4. The report shall initially be prepared in draft form and submitted to the COUNTY for review. The draft document shall be revised based on COUNTY’S comments and made available for submittal to the USACE-Jacksonville District for review. CONSULTANT shall provide to the COUNTY three (3) hardcopies and one (1) editable digital copy (MS Word) of the initial draft of the LRR for review and comment by the COUNTY.
- 4.1.5. The CONSULTANT shall attend up to three (3) face-to-face meetings in Jacksonville, as required and as directed by COUNTY, with the USACE to review Federal policies, principles, guidelines, economic analysis procedures, and cost estimation procedures, and to discuss the progress of the documents. The CONSULTANT shall also participate in monthly PDT teleconference calls with the USACE in support of the LRR formulation and review.
- 4.2. Deliverable. Upon completion of revisions to the LRR based comments by the COUNTY, the CONSUTANT shall prepare and provide to the COUNTY for distribution to the USACE, up to thirty (30) hardcopies of the LRR and up to thirty (30) DVD’s containing a PDF version of the same document for initial review and comment by the USACE-Jacksonville District.

**SCOPE OF CONSULTANT SERVICES FOR THE  
OCEAN RIDGE SHORE PROTECTION PROJECT 3**  
*Task Order 2: ENVIRONMENTAL SURVEYS, FEDERAL DOCUMENT (LRR) PREPARATION &  
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**5. USACE LRR REVIEW**

- 5.1. The Jacksonville will review the draft LLR and provide comments to the COUNTY for consideration and inclusion in the document. Review of the LRR document by the Jacksonville District will require revisions to the document. CONSULTANT shall make a maximum of three (3) discrete revisions to the document consistent with initial and subsequent USACE comments and requirements using existing data as well as data and information that are developed under this Task Order. Additional data collection, studies, numerical modeling and above that developed under other provisions of this Task Order will be considered additional work and additional budget and authorization will be required. This scope of services does not include participation by the CONSULTANT in any aspect of an Independent Expert Panel Review (IEPR) of the LRR.
- 5.2. The CONSULTANT shall attend up to three (3) face-to-face meetings in Jacksonville, one per revision, as required and as directed by COUNTY, to address comments by the USACE.
- 5.3. *Deliverable.* Subsequent to each of the three reviews by the USACE Jacksonville District and/or higher USACE authority, the CONSULTANT shall make the requested revisions to the LRR, with available information, analyses, and results, and submit up to twenty (20) hardcopies and twenty (20) DVD's containing a PDF copy of the revised document to the COUNTY for resubmittal to the USACE.

**6. JOINT COASTAL PERMIT (JCP) APPLICATION**

- 6.1. The CONSULTANT shall develop and submit a JCP application for the Ocean Ridge Shore Protection Project 3 beach fill, potential structure modifications, and borrow area. The JCP application shall incorporate the results from existing surveys, engineering, geotechnical and environmental work conducted in support of this project and shall include sufficient detail to describe the scope of the proposed project and anticipated impacts from the project. A set of permit drawings in hardcopy and electronic format and appropriate supporting documentation shall be included within the submission.
- 6.2. The CONSULTANT, through a qualified sub-consultant, shall develop a summary document in response to Specific Condition 6 of FDEP Permit No. P/N 0244200-001-JC for submittal with the JCP application. The condition requires an analysis of hardbottom monitoring since the previous project. The nearshore hardbottom survey described under Task 1.1 shall provide the updated information necessary to show the long-term condition of the downdrift hardbottom.

**SCOPE OF CONSULTANT SERVICES FOR THE  
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- 6.3. The CONSULTANT shall also make application to the Board of Trustees of the Internal Improvement Trust Fund (BTITF) for Easements and/or Consent of Use instruments for sand fill areas, borrow areas, pipeline corridors, and offshore dredge operating areas on or over sovereign submerged lands. This will require drawings and legal descriptions certified by a Professional Surveyor licensed in the State of Florida.
- 6.4. *Deliverable.* Deliverables to the COUNTY shall include one hardcopy and one electronic copy in PDF format of the JCP permit application with drawings and supporting documentation, summary response document to Specific Conditions 6 of FDEP Permit No. P/N 0244200-001-JC, and the application to BTITF for easements and consent of use of sovereign submerged lands. The CONSULTANT shall also deliver to the COUNTY electronic files of the final permit drawings in AutoCAD format.

**7. JCP RAI PROCESSING**

- 7.1. Upon receipt of comments from the FDEP and the USACE, CONSULTANT shall coordinate with COUNTY personnel to respond to the Agency Request for Additional Information (RAI).
- 7.2. *Deliverable.* The CONSULTANT shall provide responses for up to two (2) separate RAIs from FDEP and up to two (2) separate RAIs from the US Army Corps of Engineers (USACE). Obtaining the information to answer the agencies' questions may entail additional research, numerical model studies, and/or fieldwork. CONSULTANT agrees to assist the COUNTY in responding to RAIs from the agencies using existing data as well as data and information that are developed under this Task Order. Additional data collection, studies, numerical modeling over and above that developed under other provisions of this Task Order will be considered additional work and additional budget and authorization will be required. The intent of this Task is to provide adequate information to the agencies for processing permits and to develop back-up data that will put the COUNTY in a position to respond to issues raised by agencies, environmental groups, and concerned citizens. This task specifically excludes testifying at Administrative or Court Hearings or related meetings for developing a case with attorneys.

**SCOPE OF CONSULTANT SERVICES FOR THE  
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**8. PERMITTING RELATED MEETING AND CONSULTATIONS**

- 8.1. The CONSULTANT shall plan, coordinate, and participate in meetings with the federal and state resource and regulatory agencies. The CONSULTANT shall attend up to two (2) progress meetings in Tallahassee with FDEP staff and two (2) progress meetings in Jacksonville with the USACE-Regulatory Division. The CONSULTANT shall participate via teleconference in up to two (2) USACE-Regulatory Division meetings in West Palm Beach. The CONSULTANT will not be required to travel to Palm Beach County for the regulatory meetings.
- 8.2. *Deliverable.* The CONSULTANT shall provide limited preparation for progress meetings including preparation of meeting agendas and presentation materials where appropriate. Deliverables shall include meeting notes, agendas, and pertinent correspondence.

**9. RESPONSE TO FEDERAL AGENCY COMMENTS**

- 9.1. The CONSULTANT shall review and provide responses to two (2) sets of comments received from Federal Agencies regarding the permit application. Federal commenting agencies include: USFWS, NMFS and the EPA. Upon receiving comments from any Federal Agency, the CONSULTANT shall discuss the issues and points raised within the comments with the COUNTY and propose an acceptable response plan. The CONSULTANT will only be required to use existing data and information as well as the responses to JCP RAI's to formulate responses to the Federal resources agencies.
- 9.2. *Deliverable.* Deliverables shall be up to two (2) sets of response letters to Federal Agencies.

Palm Beach County, Florida  
OCEAN RIDGE SHORE PROTECTION PROJECT 3: Task Order 2

TOTAL SUMMARY  
Olsen Associates, Inc. Costs

Task		Labor	ODC's	Outside SVS/Cntrctrs	Total
Task 1.0	Nearshore Hardbottom Analysis and Verification Survey	\$ 4,872	\$ -	\$ 10,849	\$ 15,721
Task 2.0	Biological Assessment	\$ 9,744	\$ -	\$ 29,320	\$ 39,064
Task 3.0	Environmental Assessment	\$ 12,144	\$ -	\$ 31,456	\$ 43,600
Task 4.0	Limited Reevaluation Report (LRR)	\$ 132,416	\$ -	\$ 1,604	\$ 134,020
Task 5.0	USACE LRR Review (3 Reviews and Revisions)	\$ 51,228	\$ -	\$ 3,207	\$ 54,435
Task 6.0	JCP Application	\$ 44,272	\$ 130	\$ 11,033	\$ 55,435
Task 7.0	JCP RAI Processing (2 Responses)	\$ 45,400	\$ 70	\$ 3,293	\$ 48,763
Task 8.0	Permitting Related Meetings and Consultations (6 meetings - 2 tally / 2 jax / 2 teleconference)	\$ 16,800	\$ 312	\$ 4,087	\$ 21,199
Task 9.0	Response to Federal Agency Comments (2 Response Sets)	\$ 13,092	\$ 70	\$ 3,405	\$ 16,567
TOTAL		\$ 329,968	\$ 582	\$ 98,254	\$ 428,804

8/12/2011

olsen associates, inc.

Palm Beach County, Florida  
OCEAN RIDGE SHORE PROTECTION PROJECT 3: Task Order 2  
TASK 1.0: Nearshore Hardbottom Analysis and Verification Survey

Task 1.0 Nearshore Hardbottom Analysis and Verification Survey																	
DIRECT LABOR											ODC's		OUTSIDE SVS/SUB-CONTRACTORS		TOTAL		
LABOR CATEGORY	ADMIN/ MGMT	DESIGN	ANALYSES	MODELING	FIELD WORK	PLANNING/ LIAISON	QA/QC	REVIEW& COMMENT	TOTAL HOURS	RATE	COST	ITEM	TOTAL	SERVICE	COST		
Principal	2								2	\$ 210	\$ 420	IN-HOUSE SERVICES		Coastal Eco-Group (M/WBE)	\$ 10,849		
Principal II									0	\$ 178	\$ -	TRAVEL					
Sr Engineer						8	16	4	28	\$ 150	\$ 4,200	PER DIEM					
Coastal Engr I									0	\$ 114	\$ -	REPRODUCTION					
Coastal Engr II									0	\$ 95	\$ -	LD TEL/FAX					
Coastal Engr III									0	\$ 78	\$ -	FED EX					
CAD									0	\$ 59	\$ -	POSTAGE					
Admin. Asst.	2							2	4	\$ 63	\$ 252	MISC					
SUBTOTAL DIRECT LABOR											\$ 4,872		subtotal	\$ -	subtotal	\$ 10,849	\$ 15,721

Palm Beach County, Florida  
 OCEAN RIDGE SHORE PROTECTION PROJECT 3: Task Order 2

TASK 2.0: Biological Assessment

Task 2.0 Biological Assessment																
LABOR CATEGORY	ADMIN/ MGMT	DIRECT LABOR									ODC's		OUTSIDE SVS/SUB-CONTRACTORS		TOTAL	
		DESIGN	ANALYSES	MODELING	FIELD WORK	PLANNING/ LIAISON	QA/QC	REVIEW & COMMENT	TOTAL HOURS	RATE	COST	ITEM	TOTAL	SERVICE		COST
Principal	4								4	\$ 210	\$ 840	IN-HOUSE SERVICES		Coastal Eco-Group (M/WBE)	\$ 11,776	
Principal II									0	\$ 178	\$ -	TRAVEL		Coastal Eco-Group (M/WBE) (NTE)	\$ 13,333	
Sr Engineer						16	16	24	56	\$ 150	\$ 8,400	PER DIEM		Coastal Eco-Group (M/WBE) (NTE)	\$ 3,892	
Coastal Engr I									0	\$ 114	\$ -	REPRODUCTION		Banyan Printing (SBE) (NTE)	\$ 250	
Coastal Engr II									0	\$ 95	\$ -	LD TEL/FAX		Banyan DVD's (SBE) (NTE)	\$ 69	
Coastal Engr III									0	\$ 78	\$ -	FED EX				
CAD									0	\$ 59	\$ -	POSTAGE				
Admin. Asst.	4							4	8	\$ 63	\$ 504	MISC				
SUBTOTAL DIRECT LABOR											\$ 9,744	subtotal	\$ -	subtotal	\$ 29,320	\$ 39,064

Palm Beach County, Florida  
 OCEAN RIDGE SHORE PROTECTION PROJECT 3: Task Order 2

TASK 3.0: Environmental Assessment

Task 3.0: Environmental Assessment																	
DIRECT LABOR												ODC's		OUTSIDE SVS/SUB-CONTRACTORS		TOTAL	
LABOR CATEGORY	ADMIN/ MGMT	DESIGN	ANALYSES	MODELING	FIELD WORK	PLANNING/ LIAISON	QA/QC	REVIEW & COMMENT	TOTAL HOURS	RATE	COST	ITEM	TOTAL	SERVICE	COST		
Principal	4								4	\$ 210	\$ 840	IN-HOUSE SERVICES		Coastal Eco-Group (MWBE)	\$ 30,787		
Principal II									0	\$ 178	\$ -	TRAVEL		Banyan Printing (SBE) (NTE)	\$ 600		
Sr Engineer						24	24	24	72	\$ 150	\$ 10,800	PER DIEM		Banyan DVD's (SBE) (NTE)	\$ 69		
Coastal Engr I									0	\$ 114	\$ -	REPRODUCTION					
Coastal Engr II									0	\$ 95	\$ -	LD TEL/FAX					
Coastal Engr III									0	\$ 78	\$ -	FED EX					
CAD									0	\$ 59	\$ -	POSTAGE					
Admin. Asst.	4							4	8	\$ 63	\$ 504	MISC					
SUBTOTAL DIRECT LABOR												\$ 12,144	subtotal	\$ -	subtotal	\$ 31,456	\$ 43,600



Palm Beach County, Florida  
 OCEAN RIDGE SHORE PROTECTION PROJECT 3:  
 Task Order 2

TASK 4.0: Limited Reevaluation Report (LRR)

Task 4.0 Limited Reevaluation Report (LRR)												ODC's		OUTSIDE SVS/SUB-CONTRACTORS		TOTAL	
DIRECT LABOR												ITEM	COST	SERVICE	COST	COST	
LABOR CATEGORY	ADMIN/ MGMT	PLANNING/ LIAISON	Data Assembly	Engineering Analysis	Economic Analysis	Real Estate Analysis	Report Prep	REVIEW & COMMENT	TOTAL HOURS	RATE	COST						
Principal	16							16	32	\$ 210	\$ 6,720	IN-HOUSE SERVICES		Banyan Printing (SBE) (NTE)	\$ 1,500		
Principal II								24	24	\$ 178	\$ 4,272	TRAVEL		Banyan DVD's (SBE) (NTE)	\$ 104		
Sr Engineer		40	8	80	40	40	120		328	\$ 150	\$ 49,200	PER DIEM					
Coastal Engr I			40	80	40	40	120		320	\$ 114	\$ 36,480	DVD Production					
Coastal Engr II			40		40		160		240	\$ 95	\$ 22,800	LD TEL/FAX					
Coastal Engr III				40					40	\$ 78	\$ 3,120	FED EX					
CAD				40	24				64	\$ 59	\$ 3,776	POSTAGE					
Admin. Asst.	16						80		96	\$ 63	\$ 6,048	MISC					
SUBTOTAL DIRECT LABOR												\$ 132,416	subtotal	\$ -	subtotal	\$ 1,604	\$ 134,020

Palm Beach County, Florida  
 OCEAN RIDGE SHORE PROTECTION PROJECT 3: Task Order 2

TASK 5.0: USACE LRR Review (3 Reviews and Revisions)

Task 5.0 USACE LRR Review (3 Reviews and Revisions)													ODC's		OUTSIDE SVS/SUB-CONTRACTORS		TOTAL
DIRECT LABOR								TOTAL HOURS	RATE	COST	ITEM	COST	SERVICE	COST	COST		
LABOR CATEGORY	ADMIN/ MGMT	PLANNING/ LIAISON	Data Assembly	Engineering Analysis	Economic Analysis	Real Estate Analysis	Report Prep	REVIEW & COMMENT									
Principal	12							12	24	\$ 210	\$ 5,040	IN-HOUSE SERVICES					
Principal II								12	12	\$ 178	\$ 2,136	TRAVEL					
Sr Engineer							120		120	\$ 150	\$ 18,000	PER DIEM					
Coastal Engr I									0	\$ 114	\$ -	DVD Production					
Coastal Engr II							120		120	\$ 95	\$ 11,400	LD TEL/FAX					
Coastal Engr III							120		120	\$ 78	\$ 9,360	FED EX					
CAD									0	\$ 59	\$ -	POSTAGE					
Admin. Asst.	12						72		84	\$ 63	\$ 5,292	MISC					
SUBTOTAL DIRECT LABOR												\$ 51,228	subtotal	\$ -	subtotal	\$ 3,207	\$ 54,435

Palm Beach County, Florida  
 OCEAN RIDGE SHORE PROTECTION PROJECT 3: Task Order 2

TASK 6.0: JCP Application

Task 6.0 JCP Application												ODC's		OUTSIDE SVS/SUB-CONTRACTORS		TOTAL	
DIRECT LABOR												ITEM	COST	SERVICE	COST	COST	
LABOR CATEGORY	ADMIN/ MGMT	DESIGN	ANALYSES	MODELING	APP PREP	LIAISON	Report Prep	REVIEW& COMMENT	TOTAL HOURS	RATE	COST						
Principal	4							4	8	\$ 210	\$ 1,680	IN-HOUSE SERVICES		Coastal Eco-Group (M/WBE)	\$ 4,883		
Principal II								4	4	\$ 178	\$ 712	TRAVEL		Sea Diversified (SBE)	\$ 6,150		
Sr Engineer	16		24		40				80	\$ 150	\$ 12,000	PER DIEM					
Coastal Engr I		40	24		80				144	\$ 114	\$ 16,416	REPRODUCTION	\$ 130				
Coastal Engr II									0	\$ 95	\$ -	LD TEL/FAX					
Coastal Engr III		40	40		24				104	\$ 78	\$ 8,112	FED EX					
CAD			8		40				48	\$ 59	\$ 2,832	POSTAGE					
Admin. Asst.	8		8		24				40	\$ 63	\$ 2,520	MISC					
SUBTOTAL DIRECT LABOR												\$ 44,272	subtotal	\$ 130	subtotal	\$ 11,033	\$ 55,435

Palm Beach County, Florida  
 OCEAN RIDGE SHORE PROTECTION PROJECT 3: Task Order 2

TASK 7.0: JCP RAI Processing (2 Responses)

Task 7.0 JCP RAI Processing (2 Responses)																	
DIRECT LABOR												ODC's		OUTSIDE SVS/SUB-CONTRACTORS		TOTAL	
LABOR CATEGORY	ADMIN/ MGMT	DESIGN	ENGR ANALYSIS	MODELING	RAI PREP	LIAISON	Report Prep	REVIEW& COMMENT	TOTAL HOURS	RATE	COST	ITEM	COST	SERVICE	COST	COST	
Principal	8				4			4	16	\$ 210	\$ 3,360	IN-HOUSE SERVICES		Coastal Eco-Group (MWBE)	\$ 3,293		
Principal II								4	4	\$ 178	\$ 712	TRAVEL					
Sr Engineer	16		8		24	40		12	100	\$ 150	\$ 15,000	PER DIEM					
Coastal Engr I			24		80				104	\$ 114	\$ 11,856	REPRODUCTION	\$ 70				
Coastal Engr II									0	\$ 95	\$ -	LD TEL/FAX					
Coastal Engr III			80		24				104	\$ 78	\$ 8,112	FED EX					
CAD					48				48	\$ 59	\$ 2,832	POSTAGE					
Admin. Asst.	8				48				56	\$ 63	\$ 3,528	MISC					
SUBTOTAL DIRECT LABOR												\$ 45,400	subtotal	\$ 70	subtotal	\$ 3,293	\$ 48,763

Palm Beach County, Florida  
 OCEAN RIDGE SHORE PROTECTION PROJECT 3: Task Order 2

TASK 8.0: Permitting Related Meetings and Consultations (6 Meetings)

Task 8.0 Permitting Related Meetings and Consultations (6 meetings - 2 tally / 2 jax / 2 teleconference)												ODC's		OUTSIDE SVS/SUB-CONTRACTORS		TOTAL	
DIRECT LABOR												ITEM	COST	SERVICE	COST	COST	
LABOR CATEGORY	ADMIN/ MGMT	DESIGN	ANALYSES	MODELING	FIELD WORK	LIAISON	Meeting Prep	Meetings	TOTAL HOURS	RATE	COST						
Principal									0	\$ 210	\$ -	IN-HOUSE SERVICES		Coastal Eco-Group (MWBE)	\$ 4,087		
Principal II									0	\$ 178	\$ -	TRAVEL (Tallahassee)	\$ 312				
Sr Engineer	12						64	36	112	\$ 150	\$ 16,800	PER DIEM					
Coastal Engr I									0	\$ 114	\$ -	REPRODUCTION					
Coastal Engr II									0	\$ 95	\$ -	LD TEL/FAX					
Coastal Engr III									0	\$ 78	\$ -	FED EX					
CAD									0	\$ 59	\$ -	POSTAGE					
Admin. Asst.									0	\$ 63	\$ -	MISC					
SUBTOTAL DIRECT LABOR											\$ 16,800		subtotal	\$ 312	subtotal	\$ 4,087	\$ 21,199

Palm Beach County, Florida  
OCEAN RIDGE SHORE PROTECTION PROJECT 3: Task Order 2  
TASK 9.0: Response to federal Agency Comments (2 Responses)

Task 9.0 Response to Federal Agency Comments (2 Response Sets)												ODC's		OUTSIDE SVS/SUB-CONTRACTORS		TOTAL
LABOR CATEGORY	ADMIN/ MGMT	DESIGN	ENGR ANALYSIS	DIRECT LABOR				TOTAL HOURS	RATE	COST	ITEM	COST	SERVICE	COST	COST	
				MODELING	RAI PREP	LIAISON	TRAVEL									REPORT PREP
Principal	4							4	\$ 210	\$ 840	IN-HOUSE SERVICES		Coastal Eco-Group (M/WBE)	\$ 3,405		
Principal II								0	\$ 178	\$ -	TRAVEL					
Sr Engineer					80			80	\$ 150	\$ 12,000	PER DIEM					
Coastal Engr I								0	\$ 114	\$ -	REPRODUCTION	\$ 70				
Coastal Engr II								0	\$ 95	\$ -	LD TEL/FAX					
Coastal Engr III								0	\$ 78	\$ -	FED EX					
CAD								0	\$ 59	\$ -	POSTAGE					
Admin. Asst.	4							4	\$ 63	\$ 252	MISC					
SUBTOTAL DIRECT LABOR										\$ 13,092	subtotal	\$ 70	subtotal	\$ 3,405	\$ 16,567	



Coastal Eco-Group Inc.

810 SE 8th Avenue, Suite C  
Deerfield Beach, FL 33441  
954.591.1219 Phone 954-653-2981 Fax

July 11, 2011

Mr. Christopher G. Creed, P.E.  
Olsen Associates, Inc.  
2618 Herschel Street  
Jacksonville, Florida 32204

**RE: Proposal for Professional Services for the Ocean Ridge Shore Protection Project – Environmental Surveys, Federal Document Preparation and JCP Permitting Tasks**

Dear Mr. Creed:

Coastal Eco-Group, Inc. (CEG) is pleased to provide the following scope of services and associated costs for four major tasks in support of the proposed Ocean Ridge Shore Protection Project: 1) Nearshore Hardbottom Analysis and Verification; 2) National Marine Fisheries Service (NMFS) *Acropora* survey, Critical Habitat Effects Assessment, and Biological Assessment in compliance with the Endangered Species Act; 3) development of a National Environmental Policy Act (NEPA) Environmental Assessment; and 4) Environmental Permitting Support and Agency Coordination in the Development of a Joint Coastal Permit application. A detailed description of each task is provided below.

**Task 1 – Nearshore Hardbottom Analysis and Verification Study**

Coastal Eco-Group, Inc. (CEG) shall map the nearshore hardbottom edge located between FDEP monuments R-152 and R-164. The hardbottom edge shall be mapped utilizing a diver-towed taut-line buoy with an attached DGPS antenna, which transmits continuous positions to hydrographic survey software on board a survey vessel. Horizontal positioning shall be determined with a Trimble differential global positioning system (DGPS) technology utilizing the USCG NAVBeacon System and HYPACK navigation software. Two biologists equipped with SCUBA shall swim the hardbottom edge; one biologist shall tow the buoy system and the second biologist shall document the benthic communities along the nearshore hardbottom edge with digital video. During the survey, one of the biologists shall randomly perform measurements of vertical relief of the exposed hardbottom edge in areas of visually different hardbottom exposure/relief, and the locations of variations in vertical relief along the edge shall be geo-referenced by marking each location with DGPS targets.

In addition to the nearshore hardbottom edge mapping survey, six permanent transects established for the 2005 Ocean Ridge Shore Protection Project shall be resurveyed for sediment line-intercept and sediment depth measurements to document existing hardbottom exposure downdrift of the project fill area. These data shall be compared to the monitoring data for the

2005 project and a letter report with associated graphics will be prepared for submittal in the Joint Coastal Permit application as provided in Task 6. Changes in sediment depth and cover will be analyzed and compared to the benthic community data presented in the final biological monitoring report for the 2005 Shore Protection Project.

The digital trackline data shall be superimposed over aerial photography to graphically compare the *in-situ* hardbottom edge with the hardbottom edge digitized from recent aerial imagery. Biologists shall review the digital video record to provide general descriptions of the dominant benthos, sediment cover, and landscape features of the nearshore hardbottom edge in relation to the vertical relief description and DGPS position information.

**Task 1 Deliverables:** CEG shall provide deliverables which include one (1) digital copy in PDF format of a letter report and hardbottom edge mapping results created in ArcMap 9.2 and an electronic line file of the hardbottom edge boundary, submitted to Olsen Associates Inc. within 90 days of completion of the survey.

**Task 1 Total Cost: \$10,849**

**Task 2 – Biological Assessment, NMFS *Acropora* survey, and Critical Habitat Effects Assessment for *Acropora* spp.**

CEG shall prepare a Draft Biological Assessment (BA) that will be used to assist U.S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS) personnel in fulfilling their obligations under the Endangered Species Act of 1973. The BA will evaluate the potential impacts of the proposed project on federally-listed endangered and threatened species, including but not limited to nesting loggerhead, green and leatherback sea turtles, nearshore foraging habitat for juvenile green sea turtles, Acroporid corals and their designated critical habitat, smalltooth sawfish, piping plovers, Johnson's seagrass, right whale and manatees, and describe the avoidance, minimization and conservation measures proposed by the applicant. A critical habitat effects assessment for *Acropora* spp. will be developed and approval of the assessment shall be obtained from the NMFS.

A survey of offshore hardbottom adjacent to the proposed borrow site is not included in this scope of services. A survey of the offshore reefs was performed by the Palm Beach County Reef Research Team (PBCRRT) on June 26, 2011. The survey results and letter generated by PBCRRT will be used in the BA and critical habitat effects assessment for *Acropora* spp. Any additional information requested by the NMFS regarding the offshore reef survey shall be provided by Palm Beach County or require a separate authorization for additional services.

In support of the Biological Assessment and critical habitat effects assessment for *Acropora* spp., nearshore hardbottom shall be sampled for *Acropora* spp. using NMFS "Recommended Survey Protocol for *Acropora* spp. in support of Section 7 Consultation." Pursuant to the approved protocol, sampling will be conducted at one sampling site per every 10,000 m<sup>2</sup> on nearshore hardbottom within the turbidity mixing zone and downdrift of the project fill area between FDEP monuments R-152 and R-164, seaward of the 6-ft contour within designated critical habitat for *Acropora* (minimum of 9 sample sites).



At each sampling site, a two-tiered survey shall be performed with the second tier survey dependent on the results of the Tier One survey. The second tier survey shall be performed as a NTE task and is contingent upon the number of sites at which *Acropora* colonies are located during the Tier One survey. Upon arrival at the sampling site, scientific divers will conduct a structured 20-minute swim from a referenced center point. If less than five individual colonies are recorded within a station, data collection for each colony will include photographic documentation, largest linear dimension (branch length, width, and height), and evaluation of percent live tissue. If more than five colonies of *Acropora spp.* are encountered at a sampling site, the tier two survey shall be initiated. During the tier two survey, scientific divers will lay three belt transects (4 m x 50 m) from the referenced center point at three random bearings. Mean density, colony size (branch length, width, and height), and percent live tissue will be recorded for each colony will be recorded, and photographic documentation will be performed.

**Task 2 Deliverables:** Coastal Eco-Group, Inc. shall analyze *in-situ* data and develop a map of *Acropora* distribution/density within the areas of investigation which includes data/reports from other agencies in addition to the colonies discovered during the *Acropora* survey. A written report shall be prepared that summarizes the data within the study area. A Draft BA which includes a critical habitat effects assessment for *Acropora spp.* shall be prepared and submitted to Palm Beach County for review. The draft document shall be revised based on the County's comments and made available for submittal to the United States Army Corps of Engineers (USACE)-Jacksonville District for review. It is anticipated that the Jacksonville District will require additional revisions to the document. Coastal Eco-Group, Inc. shall make a maximum of two (2) discrete revisions to the document prior to production of the Final BA (one following Palm Beach County review and a second following USACE review).

**Task 2 Total Cost: \$29,001**

**Task 2 Breakdown:**

**Lump Sum Task- BA Development & Critical Habitat Effects Assessment: \$11,776**

**NTE Tasks- Acropora Field Survey- Tier One: \$13,333**

**Acropora Field Survey- Tier Two: \$3,892**

### **Task 3 – Environmental Assessment**

CEG shall prepare a Draft Environmental Assessment (EA) in accordance with current requirements of the USACE. The EA will contain a literature review of all existing data, monitoring reports, and published data for the project area and shorelines immediately adjacent to the project area within Palm Beach County. The EA shall include an Essential Fish Habitat Assessment (EFH) pursuant to the Magnuson Stevens Fishery and Conservation Management Act.

**Task 3 Deliverables:** A Draft EA shall be prepared and submitted to Palm Beach County for review. The draft document shall be revised based on the County's comments and made available for submittal to the USACE-Jacksonville District for review. It is anticipated that the Jacksonville District will require additional revisions to the document. Coastal Eco-Group, Inc. shall make a maximum of two (2) discrete revisions to the document prior to production of the Final EA (one following Palm Beach County review and a second following USACE review).

**Task 3 Total Cost: \$31,387**

**Task 6 – Joint Coastal Permit (JCP) Application**

CEG shall provide environmental permitting support to Olsen Associates, Inc. (OAI) in the development of a JCP application. Under this task, CEG will prepare a letter report in response to Specific Condition 6 of FDEP Permit No 0244200-001-JC for submittal with the JCP application. The condition requires an analysis of hardbottom monitoring since the previous project in 2005. The nearshore hardbottom survey described in Task 1 will provide the updated information necessary to show the long-term condition of the downdrift hardbottom features in compliance with Specific Condition 6.

**Task 6 Total Cost: \$4,883**

**Task 7 – JCP Request of Additional Information (RAI) Processing**

CEG shall provide assistance to OAI in responses for up to two (2) separate RAIs from FDEP and up to two (2) separate RAIs from the US Army Corps of Engineers (USACE). Assistance in responding to RAIs from the agencies is limited to the use of existing data as well as data and information that are developed under this statement of work.

**Task 7 Total Cost: \$3,293**

**Task 8 – Permitting related Meetings and Consultations**

CEG shall attend up to four (4) meetings and/or teleconferences with federal and state resource and regulatory agencies. Specifically, CEG shall attend up to two (2) progress meetings in Tallahassee with FDEP staff and two (2) progress meetings in Jacksonville or West Palm Beach with the USACE-Regulatory Division and federal resource protection agencies.

**Task 8 Total Cost: \$4,087**

**Task 9 – Response to Federal Agency Comments**

CEG shall review and provide assistance to OAI in the development of responses to two (2) sets of comments received from federal resource protection agencies regarding the permit application. Federal commenting agencies include: USFWS, NMFS, and the EPA. Upon receiving comments from any federal agency, CEG shall discuss the issues and points raised within the comments with OAI and Palm Beach County and assist in formulating an acceptable response plan.

**Task 9 Total Cost: \$3,405**

The total cost to conduct the work described in this scope of services is **\$86,304**, and includes all labor, equipment costs, and map/report preparation costs. Of this total, there is a lump sum amount of \$69,079 and a NTE amount of \$17,225. Additional data collection and studies that are not specifically addressed under the provisions of this scope of work will be considered as additional work that will require separate authorization and budget approval.

Thank you for the opportunity to provide this scope of services and cost estimate. Please let me know if you have any questions. We look forward to working with you on this project.

Sincerely,

*Cheryl L. Miller*

Cheryl L. Miller  
President, Coastal Eco-Group Inc.



**OCEAN RIDGE SHORE PROTECTION PROJECT 3  
PALM BEACH COUNTY, FL  
COASTAL ECO-GROUP INC.**

Task Order 2: ENVIRONMENTAL SURVEYS, FEDERAL DOCUMENT REFORMULATION & INITIATION OF JCP PERMITTING

		TOTAL COST
TASK 1	PRE-CONSTRUCTION NEARSHORE HARBOTOM EDGE MAPPING & CHARACTERIZATION (R-152 THROUGH R-164, turbidity mixing zone and downdrift hardbo	\$10,849
TASK 2	BIOLOGICAL ASSESSMENT AND NMFS ACROPORA SURVEY (TOTAL COST OF LUMP SUM AND NTE FIELD SURVEY TASKS)	\$29,001
	2.1 Endangered Species Act Compliance- Biological Assessment and Critical Habitat Effects Assessment for <i>Acropora</i> spp.- (LUMP SUM)	\$11,776
	2.1 National Marine Fisheries Service <i>Acropora</i> spp. Field Survey Nearshore Hardbottom- Tier One Survey (NTE)	\$13,333
	2.1 National Marine Fisheries Service <i>Acropora</i> spp. Field Survey Nearshore Hardbottom- Tier Two ( <i>A. cervicornis</i> found at maximum of 4 sites) (NTE)	\$3,892
TASK 3	REGULATORY ENVIRONMENTAL ASSESSMENT	\$30,787
TASK 6	ENVIRONMENTAL PERMITTING SUPPORT- JCP APPLICATION	\$4,883
TASK 7	JCP RAI PROCESSING SUPPORT-2 RAI responses to FDEP and USACE	\$3,293
TASK 8	PERMITTING RELATED MEETINGS AND CONSULTATIONS	\$4,087
TASK 9	RESPONSES TO FEDERAL COMMENTING AGENCIES- 2 responses	\$3,405
<b>TOTAL COST</b>		<b>\$86,305</b>
Total Lump Sum Task Costs		\$69,080
Total NTE Tasks		\$17,225

**TASK 1  
OCEAN RIDGE SHORE PROTECTION PROJECT 3  
BASELINE NEARSHORE HARDBOTTOM EDGE MAPPING AND CHARACTERIZATION**

7/21/2011

	LABOR COST					DIRECT COST						
	Principal Scientist (Hours)	Senior Scientist (Hours)	Staff Scientist (Hours)	Survey Technician (Hours)	GIS/CADD Operator (Hours)	Boat Captain (Hours)	Survey Vessel (Days)	Underwater Video (Day)	Underwater Still Camera (Day)	Diver Supplies (Days)	Dive Equipment (Days)	Scuba Tank Fills
<b>TASK 1 NEARSHORE HARDBOTTOM EDGE MAPPING (FDEP monuments R-152 to R-164)</b>												
A. MOBILIZATION/DEMobilIZATION FOR MAPPING SURVEY				4								
B. NEARSHORE HARDBOTTOM EDGE MAPPING & CHARACTERIZATION		18	18	18		20	2	2	2	2	6	12
C. FINAL DELIVERABLES												
1 Data reduction and map preparation		10	10		8							
2 Finalize mapping products and final letter report	4				2							
Total =	4	28	28	22	10	20	2	2	2	2	6	12
Rate =	\$106.40	\$92.40	\$75.00	\$65.00	\$75.00	\$65.00	\$900.00	\$50.00	\$30.00	\$25.00	\$25.00	\$8.00
Cost =	\$425.60	\$2,587.20	\$2,100.00	\$1,430.00	\$750.00	\$1,300.00	\$1,800.00	\$100.00	\$60.00	\$50.00	\$150.00	\$96.00
TOTAL LABOR COST =	\$7,292.80											
TOTAL DIRECT COST =	\$3,556.00											
TOTAL COST =	\$10,849											

\* Diver supplies include underwater paper, pencils, slates and mini DV tapes.  
Nearshore hardbottom within the turbidity mixing zone and downdrift of the project fill area between R-152 and R-164 will be sampled.

**TASK 2  
OCEAN RIDGE SHORE PROTECTION PROJECT 3  
PALM BEACH COUNTY, FL  
BIOLOGICAL ASSESSMENT-SECTION 7 ENDANGERED SPECIES CONSULTATION  
NMFS ACROPORA SURVEY AND CRITICAL HABITAT EFFECTS DETERMINATION**

7/21/2011

TASK 2 BIOLOGICAL ASSESSMENT DOCUMENTATION AND ACROPORA SURVEY	LABOR COST						DIRECT COST							
	Principal Scientist (Hours)	Senior Scientist (Hours)	Staff Scientist (Hours)	Staff Technician (Hours)	GIS/CADD Operator (Hours)	Document Processor (Hours)	Boat Captain (Hours)	Survey Vessel (Days)	Underwater Video (Day)	Underwater Still Camera (Day)	Diver Supplies (Days)	Dive Equipment (Days)	Scuba Tank Fills (Air)	
<b>A</b> BIOLOGICAL ASSESSMENT														
Develop BA including Critical Habitat Effects Assessment for Acropora spp.	40	50	20		8	16								
<b>B</b> NMFS ACROPORA SURVEY NEARSHORE REEF Tier 1 Survey (NTE)														
MOBILIZATION/DEMobilIZATION				4										
NMFS ACROPORA SURVEY- Nearshore hardbottom downdrift of fill area Phase I		20	20				22	2	2	2	2	4	12	
NMFS ACROPORA SURVEY NEARSHORE REEF- Tier 2 Survey(if Acropora cervicornis is found) (NTE)														
NMFS ACROPORA SURVEY- Nearshore hardbottom downdrift of fill area Phase II- up to 4 sites		12	12				12	1	1	1	1	2	6	
<b>C</b> MAPPING & REPORT PREPARATION														
1 Data reduction and analysis		8	16		10									
2 Report preparation		16				8								
3 Report review and finalize	8													
	Total =	48	106	68	12	20	24	34	3	3	3	6	18	
	Rate =	\$106.40	\$92.40	\$75.00	\$65.00	\$75.00	\$50.00	\$65.00	\$900.00	\$50.00	\$30.00	\$25.00	\$25.00	\$8.00
	Cost =	\$5,107.20	\$9,794.40	\$5,100.00	\$780.00	\$1,500.00	\$1,200.00	\$2,210.00	\$2,700.00	\$150.00	\$90.00	\$75.00	\$150.00	\$144.00
	TOTAL LABOR COST =	\$23,481.60												
	TOTAL DIRECT COST =	\$5,519.00												
	TOTAL COST =	\$29,001												

Diver supplies include underwater paper, pencils, slates and mini DV tapes.  
Nearshore hardbottom within the turbidity mixing zone and downdrift of the project fill area between R-152 and R-164 will be sampled.

**TASK 3  
OCEAN RIDGE SHORE PROTECTION PROJECT 3  
PALM BEACH COUNTY, FL  
REGULATORY ENVIRONMENTAL ASSESSMENT**

7/21/2011

<b>TASK 3 REGULATORY ENVIRONMENTAL ASSESSMENT</b>	<b>LABOR COST</b>					
	Principal Scientist (Hours)	Senior Scientist (Hours)	Staff Scientist (Hours)	Staff Technician (Hours)	GIS/CADD Operator (Hours)	Document Processor (Hours)
<b>TASK 3 ENVIRONMENTAL ASSESSMENT</b>	20					
<b>A. PROJECT MANAGEMENT</b>	40	172	40	10	16	40
<b>B. PREPARATION OF EA - including Essential Fish Habitat Assessment</b>						
Document finalization	60	172	50	24	16	40
Total =	\$106.40	\$92.40	\$75.00	\$65.00	\$75.00	\$50.00
Rate =	\$6,384.00	\$15,892.80	\$3,750.00	\$1,560.00	\$1,200.00	\$2,000.00
Cost =						
TOTAL LABOR COST =	\$30,786.80					
TOTAL COST =	\$30,787					

**TASK 6**

**OCEAN RIDGE SHORE PROTECTION PROJECT 3  
PALM BEACH COUNTY, FL  
JOINT COASTAL PERMITTING APPLICATION DEVELOPMENT**

7/21/2011

	<u>LABOR COST</u>		
	Principal Scientist	Senior Scientist	Document Processor
<b>TASK 6 ENVIRONMENTAL PERMITTING SUPPORT- JCP Permit Application</b>	32	16	
Total =	32	16	0
Rate =	\$106.40	\$92.40	\$50.00
Cost =	\$3,404.80	\$1,478.40	\$0.00
<b>TOTAL LABOR COST =</b>	<b>\$4,883.20</b>		
<b>TOTAL COST =</b>	<b>\$4,883</b>		



**TASK 7**  
**OCEAN RIDGE SHORE PROTECTION PROJECT 3**  
**PALM BEACH COUNTY, FL**  
**JCP RAI PROCESSING SUPPORT-2 RAI responses to FDEP and USACE**

7/21/2011

TASK 7 JCP RAI PROCESSING SUPPORT- 2 RAI RESPONSES TO FDEP AND USACE	<u>LABOR COST</u>		
	Principal Scientist 24	Senior Scientist 8	Document Processor
Total =	24	8	0
Rate =	\$106.40	\$92.40	\$50.00
Cost =	\$2,553.60	\$739.20	\$0.00
TOTAL LABOR COST =	\$3,292.80		
TOTAL COST =	<b>\$3,293</b>		

**TASK 8**  
**OCEAN RIDGE SHORE PROTECTION PROJECT 3**  
**PALM BEACH COUNTY, FL**  
**PERMITTING RELATED MEETINGS AND CONSULTATIONS**

7/21/2011

	<u>LABOR COST</u>	<u>DIRECT COST</u>		
	Principal Scientist	Rental Car (days)	Fuel & & Tolls (trips)	Per Diem
<b>TASK 8 PERMITTING RELATED MEETINGS AND CONSULTATIONS- up to 2 mtgs each in Tallahassee &amp; JAX</b>	32	6	4	2
Total =	32	6	4	2
Rate =	\$106.40	\$50.00	\$85.00	\$21.00
Cost =	\$3,404.80	\$300.00	\$340.00	\$42.00
TOTAL LABOR COST =	\$3,405			
TOTAL DIRECT COST =	\$682			
<b>TOTAL COST =</b>	<b>\$4,087</b>			

**TASK 9**

**OCEAN RIDGE SHORE PROTECTION PROJECT 3**

**PALM BEACH COUNTY, FL**

**JCP RAI PROCESSING SUPPORT-Responses to Federal Commenting Agencies**

7/21/2011

**LABOR COST**

**TASK 9 JCP RAI PROCESSING SUPPORT-2 responses to Federal Commenting Agencies**

Principal  
Scientist  
32

Total = 32  
Rate = \$106.40  
Cost = \$3,404.80

**TOTAL LABOR COST = \$3,404.80**

**TOTAL COST = \$3,405**



**SEA Diversified, Inc.**  
310 North Swinton Avenue  
Delray Beach, Florida 33444  
Phone: 561-243-4920  
Facsimile: 561-243-4957

4640 Lipscomb Street, Suite 10  
Palm City, Florida 32905  
Phone: 321-984-7268  
Facsimile: 321-984-7270

June 17, 2011

Christopher G. Creed, P.E.  
Senior Engineer / Vice-President  
Olsen Associates, Inc.  
2618 Herschel Street  
Jacksonville, Florida 32204

**RE: Proposal for Professional Services  
Sketch and Legal Descriptions - Ocean Ridge  
Sea Diversified P.N. 11-1834**

Dear Mr. Creed:

In accordance with your request, we are pleased to submit the following proposal for professional services. The scope of work shall include the preparation of sketch and descriptions for the Ocean Ridge borrow site, pipeline corridor and beach fill area as pertaining to easement / consent of use requirements by the FDEP. The sketch and legal description of the beach fill area will encompass one document and not multiple documents associated with each adjoining parcel. A sketch and description pertaining to two (2) nearshore rock structures will also be included in the scope of work, if required. Olsen Associates will assume the responsibility of all correspondence and State agency coordination. It is also assumed that Olsen Associates will provide design files in CADD format for use in preparing the legal documents.

All work shall be conducted to the highest level of industry standards and under the responsible charge of a Professional Surveyor and Mapper registered in the State of Florida. All work shall meet or exceed the Minimal Technical Standards set forth by the Florida Board of Professional Surveyors and Mappers.

Final deliverables shall include the following:

- Submittal of six (6) hard copy paper plots (8 1/2 x 14") signed and sealed by a Professional Florida Surveyor and Mapper

**Cost Breakdown:**

- Offshore Borrow Site, Pipeline Corridor and Beach Fill Area: \$ 4,470.00
- Two (2) Nearshore Rock Structures (Optional) : \$ 1,680.00

Should you have questions or require additional information please do not hesitate to contact us at your convenience. 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. T. Sadler Jr.", is written over a horizontal line.

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

WTS/dq

Cost Breakdown  
 Sea Diversified, Inc.  
 Ocean Ridge Borrow Site  
 SDI P.N. 11-1834  
 June 17, 2011

**Ocean Ridge Borrow Area  
 Sketch and Legal Descriptions (Borrow Site, Pipeline Corridor and Beach Fill)**

Description	Reg Hours	Reg Rate	OT Hours	OT Rate	Unit	Total
2-Person GPS Survey Crew		\$160.00		\$240.00	CH	\$0.00
3-Person Hydrographic Survey Crew		\$250.00		\$375.00	CH	\$0.00
Computer / CADD Operator	16	\$90.00		\$135.00	PH	\$1,440.00
Survey Manager		\$95.00		\$142.50	PH	\$0.00
Professional Surveyor and Mapper	24	\$120.00		\$180.00	PH	\$2,880.00
Project Manager	1	\$150.00		\$225.00	PH	\$150.00
<b>Total Cost:</b>						<b>\$4,470.00</b>

**Additional Sketch and Legal Descriptions of Two Nearshore Rock Structures**

Description	Reg Hours	Reg Rate	OT Hours	OT Rate	Unit	Total
2-Person GPS Survey Crew		\$160.00		\$240.00	CH	\$0.00
3-Person Hydrographic Survey Crew		\$250.00		\$375.00	CH	\$0.00
Computer / CADD Operator	8	\$90.00		\$135.00	PH	\$720.00
Survey Manager		\$95.00		\$142.50	PH	\$0.00
Professional Surveyor and Mapper	8	\$120.00		\$180.00	PH	\$960.00
Project Manager	0	\$150.00		\$225.00	PH	\$0.00
<b>Total Cost:</b>						<b>\$1,680.00</b>

**TOTAL \$ 6,150.00**

Notes:

1. 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.
2. GPS crew rates include (1) party chief, (1) instrument person, survey helper(s), High Order GPS equipment (Trimble or equivalent) and vehicle.
3. All labor rates include labor multiplier (overhead and fringe) and operating margin.
4. Overtime (over 40 hours per week) shall be 1.5 times regular hourly rate.



T 561-586-6220 F 561-586-6422

1937 10th Avenue North  
Lake Worth, FL 33461

**Olsen Associates, Inc.**  
2618 Herschel Street  
Jacksonville, FL 32204

April 25, 2011  
Quote #: 27492  
Tel: (904) 387-6114  
Fax: (904) 384-7368  
Page :1 of 1

**Contact: Christopher Creed**

Quantity	Description	Sub-Total
1	Copies - Environmental Report	0.00
	8.5 x 11 Copies: Black & White .024 each	
	Color .19 each	
	11 x 17 Copies: Black & White .04 each	
	Color .25 each	
	plus .05 each for Folding, 3 hole punch and inserting into book.	
	1.5" White Binder: \$3.75 each (275 sheets max)	
	2" White Binder: \$4.85 each (3.75 sheets max)	
	\$1.50 per binder for inserting copies, covers and spines.	
	Coil Binding: 150 Sheets max. \$3.25 each	
	Prices include delivery.	

**PALM BEACH COUNTY  
OFFICE OF SMALL BUSINESS ASSISTANCE**

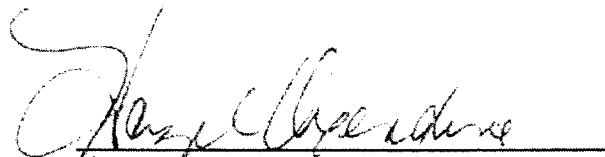
CERTIFIES THAT

**MIDS, INC. D/B/A BANYAN PRINTING**  
VENDOR # VC0000106447

*is a Small Business Enterprise as prescribed by section 2-80.21 – 2-80.35 of the Palm Beach County Code for a three year period from October 8, 2009 to October 7, 2012.*

The following Services and/or Products are covered under this certification:

**Printing and Related Services**

  
Hazel Oxendine, Director

10/8/2009



**Palm Beach County Board of County Commissioners**

Jeff Koons, Chairperson  
Burt Aaronson, Vice Chair  
Karen T. Marcus  
Shelley Vana  
Steven L. Abrams  
Jess R. Santamaria  
Priscilla A. Taylor

**County Administrator**

Robert Weisman  
**Deputy County Administrator**  
Verdenia C. Baker

1/3

Not-to Exceed Printing Cost for Ocean Ridge  
Task Order #2 (Surveys, LRR, EA, BA, Permitting)

CBE Printing Subcontractor → Banyan Printing  
#VC000010647

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### Task #2 - Biological Assessment

BA → 100 pages - 20 copies - 20% color  
all 8.5" x 11"

Total	2,000 pages		
BW	1,600 pages	→ \$0.024/sheet	\$38.40
Color	400 pages	\$0.19/sheet	\$76.00
			<u>\$114.40</u>
	25% contingency		28.50
		Total ~	<u>\$142.90</u>

San \$150  
20 copies

Binders	20 x \$3.75	=	\$75
Assembly/Deliver	20 x \$1.50	=	\$30
			<u>\$105</u>

Task 02 → \$250



Task #3 - Environmental Assessment  
(includes BA)

EA 200 pages  
BA 100 pages  
all 8.5" x 11" } 20 copies - 20% color

Total	6,000 pages		
BW	4,800 pages	→ \$ 0.024/shr	\$ 115. <sup>20</sup>
color	1,200 pages	→ 0.19/shr	\$ 228. <sup>00</sup>
			<u>343.<sup>20</sup></u>
	25% contingency		<u>85.<sup>80</sup></u>
			<u>\$ 429.<sup>00</sup></u>

Sam \$ 500 NTE  
20 copies

Binders = \$ 75  
Assemble/Deliver = \$ 30  
\$ 105

Task #3 = \$ 600.

Task 4 - LRR  
 05 - LRR Review

LRR - 93 handcopies required  
 (600 pages total/copy)  
 10% color 8.5" x 11"  
 2.5% 11" x 17" BW  
 2.5% 11" x 17" color

Per copy cost

BW	540 pages	\$0.024/page	\$12.96
color	60 pages	\$0.19/page	\$11.40
11x17 (BW)	15 pages	\$0.04/page	0.60
11x17 (color)	15 pages	\$0.25/page	3.75
			<u>\$28.71/copy</u>
bincler			\$4.85

assembly/deliver

\$1.50

25% contingency

\$35.06/copy

8.77/copy

Total = \$43.82

1 Sam \$45/copy

Task 4	33 copies -	\$1485	(sam \$1500)	) NTE
Task 5	60 copies -	\$2700	(sam \$3000)	



# PRINTING

Where Experience &  
Superior Customer Service  
Make The Difference.

T 561-586-6220 F 561-586-6422

1937 10th Avenue North  
Lake Worth, FL 33461

Olsen Associates, Inc.  
2618 Herschel Street  
Jacksonville, FL 32204

July 12, 2011  
Quote #: 28150  
Tel: (904) 387-6114  
Fax: (904) 384-7368  
Page :1 of 1

Contact: Christopher Creed

Quantity	Description	Sub-Total
	20 Misc. - CD / DVD Burning	65.00
	\$3.25 each - Minimum order 20 disks	

Task 2.0 - 20 DVD's ~ \$ 69.00  
 Task 3.0 - 20 DVD's = \$ 69.00  
 Task 4.0 - 30 DVD's = \$ 104.00  
 Task 5.0 - 60 DVD's = \$ 207.00

---

Total \$ 449.00

Ship Via	Sub-Total	Tax Rate %	Tax	Freight Charges	Deposit	Total
Delivery	65.00	6.000	3.90	0.00	0.00	\$ 68.90

1/2

Olsen In-House Bulk Printing

Task 6.0 JCP Application

- 3 copies required
- 500 pages / copy (including gaskets into)
- 25% color

Applies unit cost estimates to Benjamin

Total	-	1,500 pages	
		1,125 b/w	- \$0.024 / page = \$27. <sup>00</sup>
		375 color	- \$0.19 / page = \$71. <sup>25</sup>
		subtotal printing	= \$98. <sup>25</sup>
		binclor (2) / copy	- \$4. <sup>00</sup> / each = \$29. <sup>00</sup>
		6 - total	
			<u>\$127.<sup>35</sup></u>

Say \$130

Olson In-house Bulk Printing (cont)

Task 7.0 RAI Responses

- 2 submittals
- 3 copies for each submittal
- 100 pages per copy
- 25% color

Applies unit cost equivalent to Summary	Total =	600 pages -	
		450 b/w -	$\$0.024/\text{page} = \$10.80$
		150 color -	$\$0.19/\text{page} = \$28.50$
		subtotal printing	= \$ 39.30
	binders (6 units)	$\$3.75/\text{each}$	= \$ 22.50
			<hr/>
			\$ 61.80

Save \$70.
------------

Task 9.0 Response to Federal Agencies

Same as Task 7.0.

## Travel expenses to Meetings

### Task 8.0 - Permit Related Meetings

- Travel reimbursement for trips to Tully only
- 350 miles round trip
- Day trips only
- \$0.445/mile
- 2 trips

### Cost per trip

$$350 \text{ miles} * \$0.445/\text{mile} = \$155.\underline{75}$$

$$\text{Total for two trips} = 311.\underline{50}$$

Say \$312



JC

R 2010 - 12 97

**CONTRACT FOR PROFESSIONAL CONSULTANT SERVICES  
BETWEEN PALM BEACH COUNTY AND  
OLSEN ASSOCIATES, INC.**

This Contract is made as of AUG 17 2010, 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 Olsen Associates, Inc., 2618 Herschel Street, Jacksonville, FL 32204, 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 59-2223174.

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 provide 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 most current U.S. Army Corps of Engineers "Technical Requirements for Surveying, Mapping and Photogrammetric Services", the most current U.S. Army Corps of Engineers "Engineering Design: Hydrographic Surveying," EM 1110-2-1003, 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. The



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.

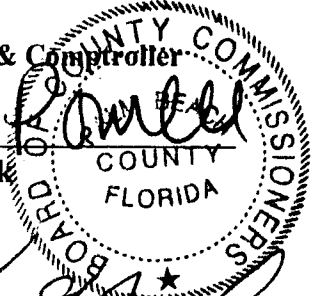
R 2010-1297

AUG 17 2010

ATTEST:

Sharon R. Bock, Clerk & Comptroller

By: [Signature]  
Deputy Clerk



PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS:

By: [Signature]  
Burt Aaronson, Chair  
Steven L. Abrams

WITNESS:

[Signature]  
Signature  
CHRISTOPHER G. CREED, P.E.  
Name (type or print)

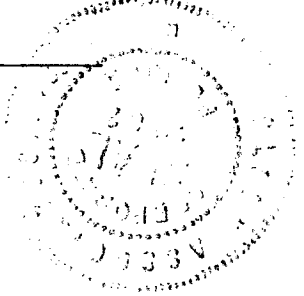
Olsen Associates, Inc.  
Company Name  
[Signature]  
Signature  
Erik J. Olsen, P.E.  
Typed Name

APPROVED AS TO FORM AND LEGAL SUFFICIENCY

By: [Signature]  
Assistant County Attorney

President  
Title

(corporate seal)



APPROVED AS TO TERMS AND CONDITIONS

By: [Signature]  
Richard E. Walesky, Director  
Dept. of Environmental Resources Mgmt.

Palm Beach County  
Coastal Engineering Services Contract

**EXHIBIT B**

CATEGORY	SALARY PER HOUR	BURDENED RATE <sup>1</sup>	
Principal	\$77.21	\$210	Certified as of 20 April 2010
Principal II	\$65.44	\$178	
Sr. Engineer	\$55.15	\$150	
Coastal Eng. I	\$41.81	\$114	Source: W-2 (2009) +3%
Coastal Eng. II	\$34.98	\$95	
Coastal Eng. III	\$28.85	\$78	
CAD	\$21.62	\$59	
Adm. Asst. Clerical	\$23.12	\$63	

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<sup>1</sup> Multiplier of 2.72