

CIVIL/ENVIRONMENTAL ENGINEERING SERVICES
Intracoastal Waterway Las Olas Marina Dredging Project





Qualifications for CIVIL/ENVIRONMENTAL ENGINEERING SERVICES - City of Fort Lauderdale Intracoastal Waterway -

Las Olas Marina Dredging Project

September 29, 2014

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Submitted by:

Applied Technology & Management, Inc.

2047 Vista Parkway, Suite 201 West Palm Beach, FL 33411

www.appliedtm.com



2047 Vista Parkway, Suite 201 WEST PALM BEACH, FL 33411 TEL: 561-659-0041 FAX: 561-659-3733

www.appliedtm.com

September 25, 2014

City of Fort Lauderdale City Hall Division of Procurement Services 100 N. Andrews Avenue, Room 619 Fort Lauderdale, FL 33301

Re: Qualifications for Civil/Environmental Engineering for Las Olas Marina Dredging Project

Applied Technology & Management, Inc. (ATM) is pleased to submit the enclosed response to the referenced solicitation. Established in 1984, **ATM** is one of the leading coastal, environmental, marine and water resources engineering firms in Florida. The ATM staff members identified to support this project have extensive, direct experience in dredge maintenance projects within the region and can fully support the needs of the City of Fort Lauderdale under this solicitation.

Please consider the following when reviewing our submittal:

- Florida Dredging Experience: Dredging of estuarine waterways is a major issue throughout Florida, and one that ATM has been dealing with for 30 years. ATM has worked on similar dredging projects throughout Florida, including recent projects for the Sebastian Inlet District, Indian River, Brevard, Martin, and Palm Beach Counties.
- Seagrass Mapping, Avoidance, Minimization and Mitigation Planning: The ATM project team has extensive experience in the assessment, design and construction of dredging projects in the vicinity of benthic resources. We feel our team is unparalleled in resource impact avoidance, minimization, and when necessary, mitigation design and planning.
- FIND Coordination: ATM staff have direct experience coordinating dredging projects with the Florida Inland Navigation District (FIND), as well as assisting municipalities with obtaining FIND grants for waterway related projects. This has included the design and use of DMMA facilities and the implementation and assessment of innovative technologies for spoil management.
- **Environmentally Sensitive Construction:** ATM staff have direct expertise in enhancing estuarine habitats. ATM recently provided construction support to the Manatee Pocket Dredging project in Martin County, and is internationally respected for environmentally sensitive marina and mega-yacht facilities.

City of Fort Lauderdale September 25, 2014 Page 2 of 2

Local Availability and Capability: Project Manager Joseph Chaison, P.E., has extensive experience with estuarine dredging and is based in West Palm Beach, a short distance from the project site and making him accessible to the site on a daily basis.

Local, In-house Surveying Team: Gary Bazemore, PSM, is ATM's lead surveyor and is based in Cocoa Beach, with extensive experience performing hydrographic surveys and field assessments for a wide variety of projects including marina and waterway dredging.

Extensive Permitting Experience: ATM team members have extensive experience in permitting of dredging and coastal engineering projects with local, state and federal agencies including FIND, the USACE, NMFS, FDEP, BCEPGMD, FWCC, etc.

Based on our qualifications, past record of accomplishments, reputation for performance, and our ability to serve you, we believe that we are the most qualified and well-positioned firm to support this project.

ATM's authorized contact for this project is Michael Jenkins, Ph.D., P.E. He can be reached by phone at 561-659-0041, fax – 561-659-3733 or email mjenkins@appliedtm.com.

Sincerely,

Applied Technology & Management, Inc.

hi fi

Michael Jenkins, Ph.D., P.E.

Coastal Engineering Principal

BID/PROPOSAL SIGNATURE PAGE

How to submit bids/proposals: Proposals must be submitted by hard copy only. It will be the sole responsibility of the Bidder to ensure that the bid reaches the City of Fort Lauderdale, City Hall, Procurement Services Division, Suite 619, 100 N. Andrews Avenue, Fort Lauderdale, FL 33301, prior to the bid opening date and time listed. Bids/proposals submitted by fax or email will NOT be accepted.

The below signed hereby agrees to furnish the following article(s) or services at the price(s) and terms stated subject to all instructions, conditions, specifications addenda, legal advertisement, and conditions contained in the bid. I have read all attachments including the specifications and fully understand what is required. By submitting this signed proposal I will accept a contract if approved by the CITY and such acceptance covers all terms, conditions, and specifications of this bid/proposal.

Please Note: All fields below must be completed. If the field does not apply to you, please note N/A in that field.
Submitted by: September 26, 2014 (date)
Name (printed) Michael Jenkins, PhD. PE_Title: Coastal Engineering Principal
Company: (Legal Registration) Applied Technology & Management, Inc.
CONTRACTOR, IF FOREIGN CORPORATION, MAY BE REQUIRED TO OBTAIN A CERTIFICATE OF AUTHORITY FROM THE DEPARTMENT OF STATE, IN ACCORDANCE WITH FLORIDA STATUTE §607.1501 (visit http://www.dos.state.fl.us/).
Address: 2047 Vista Parkway, Suite 201
City West Palm Beach State: FL Zip 33411
Telephone No. 561-656-0041 FAX No. 561-659-3733 Email: mjenkins@appliedtm.com
Delivery: Calendar days after receipt of Purchase Order (section 1.02 of General Conditions):net 30
Payment Terms (section 1.04): <u>net 30</u> Total Bid Discount (section 1.05): <u>N/A</u>
Does your firm qualify for MBE or WBE status (section 1.09): MBE WBE N/A
<u>ADDENDUM ACKNOWLEDGEMENT</u> - Proposer acknowledges that the following addenda have been received and are included in the proposal:
Addendum No. Date Issued
Q&A 1
<u>VARIANCES</u> : State any variations to specifications, terms and conditions in the space provided below or reference in the space provided below all variances contained on other pages of bid, attachments or bid pages. No variations or exceptions by the Proposer will be deemed to be part of the bid submitted unless such variation or exception is listed and contained within the bid documents and referenced in the space provided below. If no statement is contained in the below space, it is hereby implied that your bid/proposal complies with the full scope of this solicitation. HAVE YOU STATED ANY VARIANCES OR EXCEPTIONS BELOW? BIDDER MUST CLICK THE EXCEPTION LINK IF ANY VARIATION OR EXCEPTION IS TAKEN TO THE SPECIFICATIONS, TERMS AND CONDITIONS. If this section does not apply to your bid, simply mark N/A in the section below.

Variances:

revised 11-29-11

N/A

ARCHITECT - ENGINEER QUALIFICATIONS



PART 1 - CONTRACT-SPECIFIC QUALIFICATIONS

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (City and State)

City of Fort Lauderdale Civil/Environmental Engineering Svcs for ICWW Las Olas Marina Dredging, Fort Lauderdale, FL

2. PUBLIC NOTICE DATE

8-29-14

3. SOLICITATION OR PROJECT NUMBER
N/A

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Michael Jenkins, Ph.D., P.E., Coastal Team Principal

5. NAME OF FIRM

Applied Technology & Management, Inc.

6. TELEPHONE NUMBER	7. FAX NUMBER	8. E-MAIL ADDRESS
561-659-0041	561-659-3733	mjenkins@appliedtm.com

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

	(Check)		()			
	PRIME	J-V PARTNER	SUBCON- TRACTOR	9. FIRM NAME	10. ADDRESS	11. ROLE IN THIS CONTRACT
a.	Х			Applied Technology & Management, Inc. X CHECK IF BRANCH OFFICE	2047 Vista Parkway, Suite 201 West Palm Beach, FL 33411	Project Management, QA/QC, Engineering, Design, Permitting, CAD, Plans, Specs. Coordination
b.	X			Applied Technology & Management, Inc. X CHECK IF BRANCH OFFICE	305 Sixth Avenue Melbourne Beach, FL 32951	Dredging Design, Engineering
c.	Х			Applied Technology & Management, Inc. X CHECK IF BRANCH OFFICE	5550 NW 111 th Blvd. Gainesville, FL 32653	Geotechnical Analysis
d.	Х			Applied Technology & Management, Inc. CHECK IF BRANCH OFFICE	1435 E. Piedmont Drive, Suite 210 Tallahassee, FL32308	Modeling – Water Quality
e.	Х			Applied Technology & Management, Inc. CHECK IF BRANCH OFFICE	1485 N. Atlantic Avenue Cocoa Beach, FL 32931	Hydrographic Surveying Services
f.			Х	Miller Legg CHECK IF BRANCH OFFICE	5747 N Andrews Way Ft. Lauderdale, FL 33309-2364	Environmental Consulting Services
g.			Х	CEG CHECK IF BRANCH OFFICE	665 SE 10 th St., Suite 104 Deerfield Beach, FL 33441	Environmental Support – Ecological Investigations, Seagrass Surveys, Natural Resource Mapping
h.			Х	SEA X CHECK IF BRANCH OFFICE	6830 Sheridan Rd. Melbourne Village, FL 32904	Geotechnical Studies & Investigations

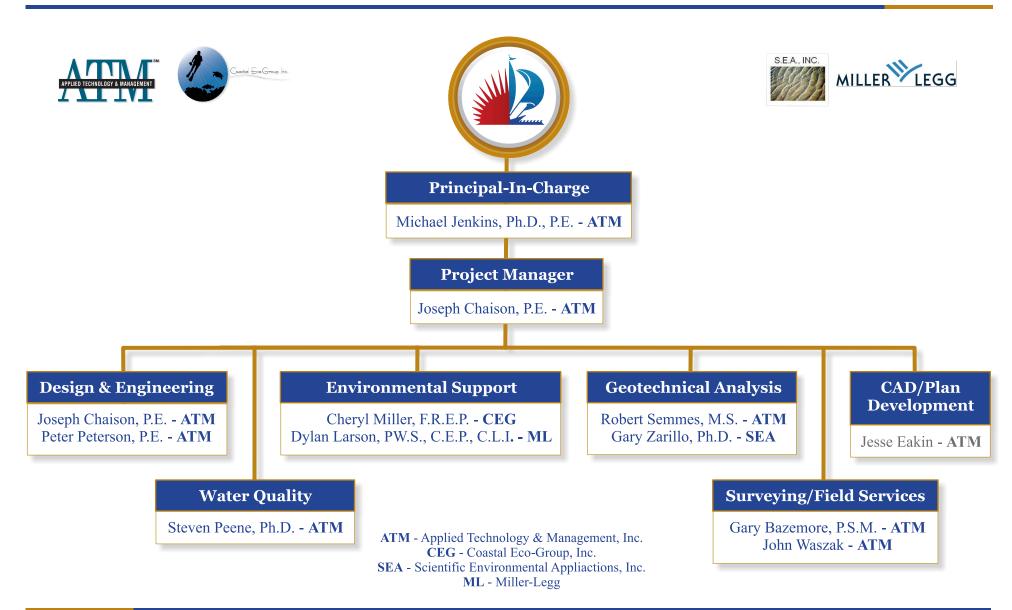
D. ORGANIZATIONAL CHART OF PROPOSED TEAM

(Attached) X

AUTHORIZED FOR LOCAL REPRODUCTION MANDATORY USE DATE OF FORM 6/2004

Project Team Organizational Chart

Statement of Qualifications for CIVIL/ENVIRONMENTAL ENGINEERING SERVICES Intracoastal Waterway - Las Olas Marina Dredging Project to the City of Fort Lauderdale



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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section F for each key person.)

	(,		
12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS EX	XPERIENCE
Michael G. Jenkins, Ph.D., P.E.	Project Principal	a. TOTAL	b. WITH CURRENT FIRM
,	1 1 0 jou 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22	10

15. FIRM NAME AND LOCATION (City and State)

\$51,674

Applied 7	Technology 8	k Manac	iement. In	c West	Palm I	Beach.	FL

16. EDUCATION (DEGREE AND SPECIALIZATION) Ph.D., Ocean Engineering, Florida Institute of Technology, 1998

M.S., Ocean Engineering, Florida Atlantic University, 1993

B.S., Ocean Engineering, Florida Atlantic University, 1991

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

Professional Civil Engineer, FL No. 58072

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Dr. Jenkins serves as head of ATM's Coastal Engineering Division. His expertise includes dredging design and habitat restoration with dredged materials. Dr. Jenkins' work includes the development of dredge fill disposal and environmental protection plans for the design of an improved navigation channel for North Bimini, Bahamas. Recent related work includes dredging projects in Martin, Indian River, and Palm Beach Counties as well as the 2012 and 2013 Sebastian Inlet Sand Trap Dredging. Dr. Jenkins maintains successful proactive relationships with multiple Federal, State, and International regulatory agencies. He served as the only outside team member on the FDEP's JCP Rapid Process Improvement (RPI) initiative. This effort was focused on identifying and implementing improvements to the Joint Coastal Permitting process.

	19. RELEVANT PROJECTS				
_	(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED			
	2012 Mid-Town Project Design, Town of Palm Beach, FL	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm			
a.	Supported the re-design of the Mid-Town Nourishment Project based on long-term me This study was conducted in conjunction with the FDEP Beach Management Agreeme optimization and minimization of hardbottom impact potential. The modified design independence. ATM Fees: \$114,000	ent (BMA) initiative. Work ind	cluded project design		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR CO	MPLETED		
	Sebastian Inlet Maintenance and Sand Trap Expansion, Sebastian, FL	PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable) 2014		
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X		
	Project Manager for the design, permitting and construction oversight of the Sebastian This project included both dredge maintenance and sand trap expansion to optimize p all phases was \$6.1 million.				
	(1) TITLE AND LOCATION (Citv and State)	(2) YEAR CO			
	Martin County Dredging Projects, Martin Co., FL	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) 2012		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X		
C.	Project Manager for the design, permitting and construction oversight of the maintena project consisted of the mechanical excavation of approximately 3,500 cubic yards of the feasibility study of dredging of the Manatee Pocket waterway to improve both navithe development of means and methods and probable costs. ATM Fees: N/A	of highly organic 'muck' mate	erial. Project Manager for		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR CO			
	City of Boca Raton Coastal Engineering Services, FL	PROFESSIONAL SERVICES 2010-2013	CONSTRUCTION (If applicable) 2010-2011		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X		
d.	Currently serving as Project Principal for coastal support under a continuing services cor (one of which is a Federal project), including construction phase services and post const management, and work on several coastal park projects including permitting and design of	truction biological and physical	al monitoring services, inle		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR CO			
	Manatee Pocket Dredging, Martin County, FL	PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable)		
_	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X		
e.	Project Manager for the feasibility study and construction oversight management of diboth navigation and estuarine habitat. The project consisted of the development of me				

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.) 12. NAME 13. ROLE IN THIS CONTRACT 14. YEARS EXPERIENCE Joseph Chaison, P.E. a. TOTAL b. WITH CURRENT FIRM **Project Manager** 13 15. FIRM NAME AND LOCATION (City and State) Applied Technology & Management, Inc., West Palm Beach, FL 16. EDUCATION (DEGREE AND SPECIALIZATION) 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) B.S. Ocean Engineering, Florida Atlantic University, 2001 Professional Civil Engineer, FL No. 64831, MD No. 34748 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Chaison has designed and overseen the construction of beach nourishment, coastal structure, dike, spillway, and dredging projects. He has participated in all phases of coastal engineering projects, from feasibility studies, numerical modeling, environmental impact statements, local, state, and *federal permitting*, grant funding application, design, plan and specification development, bid form preparation, procurement, award, construction inspection, survey, acceptance, payment review, and monitoring. Affiliations: ASCE, FES, FSBPA/ Certifications include OSHA 40-Hr HAZWOPER; PADI Open Water Diver; Certified Emergency First Responder. Mr. Chaison also took the Dredging Short Course at Texas A&M University, 2007

	19. RELEVANT PROJECTS			
(1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED				
	Jupiter Inlet Sand Trap Dredging and Beach Nourishment, Jupiter, FL	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm		
a.	Project Engineer for annual sand trap excavation and beach placement. Handled all a review, award, submittal verification, construction administration, permit compliance a construction cost for all phases was \$6.1 million.			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR CC	MPLETED	
	Harvest Caye Cruise Ship Channel Dredging Design, Placencia, Belize	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable)	
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X	
	Project Engineer for design of dredging of new cruise ship channel to -33'. Reviewed associated volumes for creation of navigation access channel to private island. ATM		eloped dredge design and	
	(1) TITLE AND LOCATION (City and State)	(2) YEAR CO	MPLETED	
	Hillsboro Canal Maintenance Dredging Project, Boca Raton, FL	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X	
C.	Project Engineer for maintenance dredging of flood control and recreational usage can chemical sediment analysis, environmental resource survey, navigation analysis, drestate and federal permitting. The project in ongoing. ATM Fees: \$98,640			
	(1) TITLE AND LOCATION (City and State)	(2) YEAR CC		
	Waterway Dredging, Town of Palm Beach, FL	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X	
d.	Project Engineer for maintenance dredging of recreational usage canal. Oversaw ba analysis, environmental resource survey, navigation analysis, dredge template design permitting. Project involves usage of dredged materials for ecosystem restoration. The	athymetric survey, physical a n and associated volumes a	nd chemical sediment nd state and federal	
	(1) TITLE AND LOCATION (City and State)	(2) YEAR CC	MPLETED	
	Boca Raton - Northern Beach Nourishment - Plans and Specifications, FL	PROFESSIONAL SERVICES Ongoing	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X	
	Engineer involved with the preparation of construction plans and specifications for b Raton beaches. Project involves the dredging of approximately 700,000 cy of b			

performing beach nourishment. Additional work will include surveying, construction administration, monitoring. ATM Fee: \$24,327

STANDARD FORM 330 (6/2004) PAGE #

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E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

12. NAME 13. ROLE IN THIS CONTRACT

Water Quality, Inlet & Estuarine **Hydrodynamics**

14. YEARS EXPERIENCE a. TOTAL b. WITH CURRENT FIRM 30 19

15. FIRM NAME AND LOCATION (City and State)

Steven J. Peene, Ph.D.

Applied Technology & Management, Inc., Tallahassee, FL

Ph.D., Coastal and Oceanographic Engineering M.S., Coastal and Oceanographic Engineering	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
B.S., Civil Engineering	

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Dr. Peene has over 20 years of experience in water resources analysis, including watershed planning, evaluation of non-point and point source pollution in surface water systems, hydrologic and water quality modeling for lakes, rivers, estuaries, coastal embayments and offshore, evaluation of impacts to ecological resources in surface waters, and design and implementation of hydrodynamic and water quality monitoring in surface water systems. He has been involved in the national and local evaluation of impacts to surface waters including development of Total Maximum Daily Loads (TMDL) Environmental Impact Assessments (EIA) and Ecosystem Destoration Projects

d	development of Total Maximum Daily Loads (TMDL), Environmental Impact Assessments (EIA), and Ecosystem Restoration Projects.					
	19. RELEVANT PROJECTS					
	(1) TITLE AND LOCATION (City and State) Big Pass Inlet Management Plan Technical Peer Review Sarasota, FL	(2) YEAR CO PROFESSIONAL SERVICES 2008	MPLETED CONSTRUCTION (If applicable)			
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Provided Technical Peer review for multi-dimensional modeling of Sarasota Bay and L Inlet Management Plan for Big Pass and New Pass. Provided review of hydrodynamic peer review committee requested by the Florida Department of Environmental Manage	c, wave, and shoreline mode	the development of the ls as part of a technical			
	(1) TITLE AND LOCATION (City and State) Gulfport Marina, Clearwater, FL	PROFESSIONAL SERVICES 2007	MPLETED CONSTRUCTION (If applicable)			
b.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X			
	In support of permitting, worked on development of a hydrodynamic and water quality potential effects (to hydrodynamic flushing and dissolved oxygen) of a proposed maris ATM Fees: \$80,000					
	(1) TITLE AND LOCATION (City and State) Old Tampa Bay Hydrodynamic Model Development Project, FL	PROFESSIONAL SERVICES 2014	MPLETED CONSTRUCTION (If applicable)			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X			
	Project Manager in charge of the development of a hydrodynamic model of Tampa Bay wit hydrodynamic model is part of an overall modeling system which includes a watershed moresource assessment models. The modeling system will be utilized to assess the potential ATM Fees to date: \$95,000	del, receiving water quality mo	odel, and ecological			
	(1) TITLE AND LOCATION (City and State) Hydrodynamic Modeling of Opening of Midnight Pass Sarasota, FL	PROFESSIONAL SERVICES 2008	MPLETED CONSTRUCTION (If applicable)			
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X			
d.	Served as primary technical QA/QC for 2-D hydrodynamic model of Little Sarasota Bay, Big Sarasota Bay and Blackburn Bay. The hydrodynamic model was utilized to project the physical and water quality changes within Little Sarasota Bay based upon the projected reopening of Midnight Pass. The model was also utilized to define the stable hydraulics within the newly cut inlet. ATM Fees: \$112,855					
	(1) TITLE AND LOCATION (City and State) TraPac Sedimentation Study, Port of Jacksonville, FL	PROFESSIONAL SERVICES 2010	MPLETED CONSTRUCTION (If applicable)			
		Objects if and in the order of a single state of	V			

Check if project performed with current firm X (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE

Principal in Charge for the development of a 3-D sedimentation model as well as design and implementation of a monitoring program to collect data in support of the model development. Multiple ADCP instruments were deployed in a side-looking configuration (20 foot depth, 24-day data collection) to quantify currents (speed and direction), as well as suspended sediment inputs. Field data collection included bottom sediment sampling and sampling for suspended particulates in the water column. The resulting particle size distribution data was used as input to a 3-D numerical model simulating sedimentation patterns and rates. This sedimentation analysis allowed a dredging template with a minimum shoaling rate to be identified. The model results were subsequently used to develop a new entrance channel design and more effective maintenance dredging protocols. Total ATM Project Fees: \$242,658

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.) 12. NAME 13. ROLE IN THIS CONTRACT a. TOTAL b. WITH CURRENT FIRM Peter C. Peterson, P.E. Civil Engineer 19 15. FIRM NAME AND LOCATION (City and State) Applied Technology & Management, Inc., Melbourne, FL 16. EDUCATION (DEGREE AND SPECIALIZATION) 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Professional Civil Engineer, Florida, No. 49294, 1995 M.S., Ocean Engineering B.S., Mechanical Engineering Professional Engineer, Wisconsin, No. 31639, 1996 Prof. Engineer, Virginia, No. 0402 037891, 2002 Professional Engineer, Texas, No. 98182, 2006 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Peterson has over 20 years of experience with coastal structures, tidal and current studies, and marine construction. Affiliations include: American Society of Civil Engineers, Marine Technology Society, Searle Consortium - Worldwide Maritime Consultancy, States Organization for Boating Access, Bahamas Engineering Society

19. RELEVANT PROJECTS				
(1) TITLE AND LOCATION (City and State)	(2) YEAR	COMPLETED		
TraPac Terminal Container Terminal sedimentation Reduction Dredging Project		CONSTRUCTION (If applicable)		
Jacksonville, FL	2011	2011		
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	n X		

a. Project Engineer for oversight of all plans and specifications for a maintenance dredging and expansion of a container berth on the St. Johns River in Jacksonville. The expanded dredging template was designed to reduce shoaling and improve navigation in the vicinity of the container berth so as to reduce future maintenance dredging costs. The project was conducted in association with the Jax Port Authority expansion plans. ATM Fees: \$242,658

	(1) TITLE AND LOCATION (City and State) Sebastian Inlet Sand Trap Phases 2 & 3 Construction Services, FL	(2) YEAR COMPLETED		
		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
		2013	2014	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X	

b Project Engineer overseeing all dredging and coastal work for the dredging of the Sebastian Inlet and subsequent placement of sand on down drift shorelines. The navigation project was designed to improve navigation and nourish the beaches south of the inlet, and improve sediment transfer to down drift coastal areas. Total construction cost for all phases was \$6.1 million.

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
Treasure Beach Canal Dredging, St. Johns County, FL	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable) 2014	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X	

c. Project Engineer responsible for developing feasibility study for maintenance dredging of residential canals controlled by the County. Investigated environmental concerns, funding opportunities and alternative construction techniques. Subsequent work included development of a conceptual design for a temporary dredge sediment holding facility at the Florida Inland Navigation District's (FIND) Dredge Material Management Area SJ-20A for the 120,000 CY Treasure Beach navigational canal dredging project. This effort required field and data review, coordination with the County, FIND, and FDEP. Dredging is currently going on and should be completed in 2014. ATM Fees: \$35,000

	•	
(1) TITLE AND LOCATION (City and State)	(2) YEAR	COMPLETED
St. Augustine Marina Dredging and Breakwater Permitting, St. Augustine, FL	PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable) 2010
(3) RRIFE DESCRIPTION (Brief scape, size, cost, etc.) AND SPECIFIC POLE	Check if project performed with current firm	X

Engineer of Record for the St. Augustine Municipal Marina maintenance dredging project. The project included removal of 12,000 cubic yards of material from the marina basin and transport to an offsite disposal facility. Tasks included permitting, plans and specifications. ATM Fees: \$82,115

(1) TITLE AND LOCATION (City and State)	(2) YEAR COMPLETED		
Marina Wave Wall Design and Construction, Loggerhead Marina, Stuart, FL	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable) 2014	
(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X	

Project Manager and engineer for the design and construction of a fixed barrier wave wall to protect an existing marina. The concrete panel wall required extensive permits from USACE, SFWMD and NMFS and was designed to reduce wave agitation within the basin, and improve navigation within the entrance approaches to the marina. ATM: \$89,200

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

APPLIED TECHNOLOGY & MANAGEMENT

14. YEARS EXPERIENCE

12. NAME

Gary W. Bazemore, PSM

13. ROLE IN THIS CONTRACT

Surveying & Field Support Services

a. TOTAL

b. WITH CURRENT FIRM 15

15. FIRM NAME AND LOCATION (City and State)

Applied Technology & Management, Cocoa Beach, FL

16. EDUCATION (DEGREE AND SPECIALIZATION)

B.S., Ocean Engineering, Florida Institute of Technology, 1987

17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

Professional Surveyor and Mapper, Florida, No. LS5697

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Bazemore directs all surveying services conducted within the firm and has over 20 years experience with both land based and hydrographic surveying. His hydrographic surveying experience includes bathymetric surveys, tide studies and navigational support for side scan sonar, sub-bottom sonar, and magnetometer surveys. He has extensive experience with post processed and real time kinematic, static, and differential GPS surveying, tidal studies, coastal engineering project construction surveys and contract administration services related to beach nourishment and inlet dredging.

	19. RELEVANT PROJECTS				
	(1) TITLE AND LOCATION (City and State) Boca Raton Inlet Sand Bypassing, Boca Raton, FL	(2) YEAR CO PROFESSIONAL SERVICES 2010-2012	MPLETED CONSTRUCTION (If applicable)		
a.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Lead surveyor for annual bathymetric surveys of Boca Inlet in support of FDEP Inlet S the channel from the bridge eastward and the ebb shoal area. ATM Fees: 37,310	Check if project performed with current firm Sand bypassing permit renev			
	(1) TITLE AND LOCATION (City and State) Town of Palm Beach, FL	PROFESSIONAL SERVICES 2011	MPLETED CONSTRUCTION (If applicable)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Conducted surveys for sand search for beach nourishment material. Performed bathymetric, magnetometer, side scan sonar and subbottom seismic sonar surveys of two areas near the Lake Worth Inlet. Also did jet probes in these areas and collected sand samples for analysis. ATM Fees including subcontractors: \$95,717				
	(1) TITLE AND LOCATION (City and State) South Lake Worth Inlet Pre-Dredge Environmental Mapping, FL	(2) YEAR CO PROFESSIONAL SERVICES 2012	MPLETED CONSTRUCTION (If applicable)		
C.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm Mapped sea grass beds within the South Lake Worth Inlet sand trap, adjacent the Intracoastal Waterway and Boynton Beach Boat Club Channel. ATM Fees: \$25,067				
	(1) TITLE AND LOCATION (City and State)	(2) YEAR CO	MPLETED		
	Residential Canal Surveys, Cocoa Beach, FL	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm X Performed a bathymetric survey of the residential canals that tie into the Banana River, part of the Indian River Lagoon system. ATM Fees: \$15,960				
	(1) TITLE AND LOCATION (City and State) West Coast Inland Navigation District, FL	(2) YEAR CO PROFESSIONAL SERVICES 2005	MPLETED CONSTRUCTION (If applicable)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X		
e.	Under ATM's continuing services contract, performed hydrographic survey services for 7 Tampa to Naples. Areas included Jaffa Canal/Philippi River in Sarasota Co., Powel-Cro. Pass, Coast Guard Station Cortez, Turtle Beach channel in Siesta Key, Hatchett Creek i	' project/study navigation area sley Museum waterfront on S	as in SW Florida from arasota Bay, Longboat		

County. The Survey data was reduced and dredge volume estimates were made to maintain the design navigation depth. ATM Fees: \$60,223

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)



12. NAME	13. ROLE IN THIS CONTRACT	14. YEARS	EXPERIENCE	
Robert H. Semmes, M.S.	Sediment Planning	a. TOTAL	b. WITH CURRENT FIRM	
,	3	25	25	
5. FIRM NAME AND LOCATION (City and State) Applied Technology & Management, Inc., Gainesville, FL				

		7. CURRENT PROFE	SSIONAL REGISTRATION (STATE AND DISC	CIPLINE)	
M	1.S., Agricultural Engineering, University of Florida, 1988				
p s	OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Ir. Semmes has 25 years of experience with dredging, dredging feasibility, draction or opects in the southeastern United States and internationally. He has a keen edimentation problems and the related regional environmental and regulatory one.	understanding	of the specific coastal proce	esses that create	
	19. RELEVANT PROJE	CTS			
	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMP	LETED	
	TraPac Container Terminal Sedimentation Analysis, Jacksonville, FL		PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable) 2011	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		Check if project performed with current firm	X	
a.	Assisted ATM engineers with study to evaluate solutions for unexpectedly h Terminal on the St Johns River in the Jacksonville Port. Performed field data acoustic doppler current profiler technology and sediment and water grab so a 3-D model study to evaluate alternatives to reduce maintenance dredging for TraPac to reduce maintenance dredging costs. ATM Fees: \$242,658	a collection (comples. Study	urrent and sediment measur analyzed sedimentation his	ements) using story and developed	
	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMP	I FTFD	
	Fernandina Harbor Marina Dredging Feasibility Study, FL		PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)	
			2011		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		Check if project performed with current firm	X	
	Florida's municipal marina. Current maintenance is conducted using mechar barge) or landfill (via truck haul). Both alternatives are expensive and unsust nearby CDF, use of rapid dewatering technology, and implementation of water the control of t	ainable. Älteri	natives evaluated included d	evelopment of a new	
	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMP	1	
	Research Vessel Marina, Port Everglades, Nova SE University, Dania B	each, FL	PROFESSIONAL SERVICES 2010	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		Check if project performed with current firm	X	
c.	Project Manager and lead consultant for specialized permit support for rede Everglades. Plans include dredging, new seawalls, new floating docks and r and minimization, coordination with the USACE for Port Expansion plans an surveyor/ engineering consultant, NSU environmental counsel, NSU staff, C Environmental, and the FDEP. Evaluated and revised dredging plans, evalu responses to a series of requests for additional information from the agencies	marina basin e d the plans' in ESAJ Naviga ated sedimen	expansion. Issues included some expact on NSU's facility. Coc tion and Regulatory, Broward t and water chemistry results	seagrass avoidance ordinated with local d County	
	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMP	T	
	CDF Feasibility services, Windmill Harbour Marina, Hilton Head, SC		PROFESSIONAL SERVICES 2011	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE			 	
				X	
d. Completed feasibility study related to the construction and operation of a new confined disposal facility (CDF) intended for the management of maintenance dredged material from the entrance channel to a popular locked harbor development on Hilton Heal Work included review of land usage rights, regulatory and environmental feasibility, and development of a path forward for imple of the plan. ATM Fees: \$12,200					
	(1) TITLE AND LOCATION (City and State)		(2) YEAR COMP	LETED	
	Permit Appeal, Carteret Municipal Marina, NJ		PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE		Check if project performed with current firm	X	
e.	Consulted with local engineer, Borough, and other consultants to compile and	d appeal US A	army Corps of Engineers der	nial for recreational	

Consulted with local engineer, Borough, and other consultants to compile and appeal US Army Corps of Engineers denial for recreational marina permit. Compiled and assessed case studies where navigational safety and wake wash effects were also issues and permits were granted with special conditions. Corps granted appeal. ATM Fees: \$138,758

. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT

(Complete one Section E for each key person.)

APPLIED TECHNOLOGY & MANAGEMEN

12. NAME

John T. Waszak

13. ROLE IN THIS CONTRACT

Field Support Services & Surveying

14. YEARS EXPERIENCE

a. TOTAL

14. YEARS EXPERIENCE

14. 10

15. FIRM NAME AND LOCATION (City and State)

Applied Technology & Management, Inc., West Palm Beach, FL

16. EDUCATION (DEGREE AND SPECIALIZATION)	17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
	SACE Construction Quality Management Certified, 2009,
	First Aid and CPR Certified 2009, PADI Advanced Open Water SCUBA
	Diver 2002 PADI Open Water SCUBA Diver 2000

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Waszak provides support for engineering and environmental projects. He has more than ten years of experience working as a surveyor, boat operator, and field diver. He provides support to coastal projects for hardbottom assessments & mapping, sea grass mitigation & monitoring, sand compaction testing, wet & dry sand sample collection, jet probes, vibracore retrieval and cataloging as well as assisting with shoreline stabilization. Member: Hydrographic Society of America, DAN Member

	19. RELEVANT PROJECTS						
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COM	PLETED				
	Town of Palm Beach, FL	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable)				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm						
а.	Compiled data into AutoCAD drawings and figures for annual monitoring reports for Mid-Town, Phipps, and Town wide. Used data provided to calculate volume changes and shoreline position changes from various data sets. For 2011 dune project, supervised the receipt of over 6000 trucks delivering sand to three locations along the Town of Palm Beach. Acted as the liason between the Town, the Engineer, and the Contractor. Physically and visually checked the color and grain size of all of the material being brought into the project area for quality assurance. ATM Fees: \$538,000						
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COME					
	Indian River County, FL	PROFESSIONAL SERVICES 2012	CONSTRUCTION (If applicable) 2003				
Э.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Conducted an evaluation of pre-construction and post-construction surveys for Post-Construction Monitoring Report for Sectors 1 & 2, and Sector 7. Analysis of dredge and fill volumes and shoreline and berm position to evaluate stability of renourished beach. ATM Fees: \$5.5M (several projects since 1998)						
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COME					
	Hollywood Waterway Master Plan, FL	PROFESSIONAL SERVICES 2013	CONSTRUCTION (If applicable)				
> .	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Assisted with the following tasks: inventory analysis of boating infrastructure, identification of resources which could be highlighted as destinations for boaters, maps and presentations for public meetings, site visits to assess potential boating destinations. ATM Fees: \$48,920						
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COME					
	South Lake Worth Inlet, Boynton Beach, FL	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable)				
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Conducted annual seagrass monitoring of shoals surrounding the intracoastal waterway, sand trap, and boat channel to boat ramp facility. Includes pre and post dredging surveys for maintenance dredging projects. ATM Fees: \$123,790						
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COME	PLETED				
	Hillsboro Canal Maintenance Dredging, Boca Raton, FL	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable)				
€.	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X				
	Provided a bathymetric survey with a tide gauge deployed during the survey. ATM Fe	es: \$98,640	rı				
	(1) TITLE AND LOCATION (City and State)	(2) YEAR COM					
	Juno Beach Renourishment Project, FL	PROFESSIONAL SERVICES 2007-2012	CONSTRUCTION (If applicable				
F	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with	th current firm X				
•	Prepared JCP application, created technical drawing, calculated volumes for beach eva and borrow area material analysis. Coordinated with Palm Beach County to provide res	luation, redesigned borrow	area, native beach				

annual data sets for the preparation of monitoring reports. ATM Fees: \$225,450

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.) 12. NAME Jesse Eakin 13. ROLE IN THIS CONTRACT CADD Technician 14. YEARS EXPERIENCE a. TOTAL 6 2 15. FIRM NAME AND LOCATION (City and State) Applied Technology & Management, Inc., West Palm Beach, FL 16. EDUCATION (DEGREE AND SPECIALIZATION) 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) Drafting Technology Diploma – West Georgia Technical College

18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.)

Mr. Eakin spent two years at West Georgia Technical College where he graduated dean's list with a diploma in Drafting. Mr. Eakin's experience includes preparation of engineering drawings for permitting, planning, and construction. Mr. Eakin regularly works with the ATM coastal engineering team and has developed AutoCAD drawings for a wide variety of project work.

	19. RELEVANT PROJECTS				
	(1) TITLE AND LOCATION (City and State)	(2) YEAR CO	MPLETED		
	Hillsborough Canal Dredging Project, FL	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable)		
2	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X		
	Built Triangulated irregular network models to calculate dredge volumes for removal or drawings of the dredging areas. ATM Fees: \$98,640	f material within canal. Also,	I produced conceptual		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR CO	MPLETED		
	Waterway Dredging, Lake Worth Lagoon, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If applicable)		
		2014			
h	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X		
	Built Triangulated irregular network models to calculate dredge volumes for removal of material within canal. Also, I produced conceptual drawings of the dredging areas. ATM Fees: \$159,493				
	(1) TITLE AND LOCATION (City and State)	(2) YEAR CO	MPLETED		
	Treasure Beach Dredging Project, St. Johns Co., FL	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X		
	Built triangulated irregular network models to calculate dredge volumes for removal o drawings of the dredging areas. ATM Fees: \$35,000				
	(1) TITLE AND LOCATION (City and State)	(2) YEAR CO			
	Town of Palm Beach FY 2014 Nourishment Project, FL	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X		
d.	Calculated necessary sand renourishment volumes based on surveyed beach profile from established borrow areas for beach placement based on created TIN models. V permit drawing along with construction drawings. ATM Fees: \$117,723	s. Also, Calculated necessar	ry sand volume removal		
	(1) TITLE AND LOCATION (City and State)	(2) YEAR CO	MPLETED		
	North Boca Raton Nourishment Project, FL	PROFESSIONAL SERVICES 2014	CONSTRUCTION (If applicable)		
	(3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE	Check if project performed with current firm	X		
e.	Calculated necessary sand renourishment volumes based on surveyed beach profile from established borrow areas for beach placement based off created TIN model. Wit permit drawing along with construction drawings. ATM Fee: \$24,327	s. Also, Calculated necessar	ry sand volume removal		

		KEY PERSONNEL PROPOSED FO		•	
	NAME	13. ROLE IN THIS CONTRACT	,	14	. YEARS EXPERIENCE
	Dylan Larson, PWS, CEP, CLI	Principal (Environment	tal)	a. TOTAL	b. WITH CURRENT FIRM
	FIRM AND LOCATION			21	20
15.	FIRM NAME AND LOCATION (City and State) Miller Legg, Ft. Lauderdale, FL				
16	EDUCATION (DEGREE AND SPECIALIZATION)	17 CURRI	ENT PROFESSIONAL RI	FGISTRATI	ON (STATE AND DISCIPLINE)
10.	Bachelor of Science, Biology and Business Administration	Profession	al Wetland Scientist	2010110111	on (on the hind bloom enve)
	Master of Business Administration,	FL, Certifi Fl. Autho	ed Landscape Inspector rized Gopher Tortoise Agent		
		Wetland	Delineation Certification		
			Environmental Professional ified Rescue Diver		
18.	OTHER PROFESSIONAL QUALIFICATIONS (Publications, C	Organizations, Training, Awards, etc.)			
	Mr. Larson has significant experience in environmental consulting in Florida a This includes field evaluations, assessments, recommendations and report writ	and is responsible for overseeing and performing stud ling. Dylan has established himself as a valuable lead	ies and investigations on biologi der and team member on a vari	cal and ecologic ety of the firm'	al impacts affecting the firm's projects.
	environmental issues. Specific responsibilities include: wetland jurisdictional de	etermination, dredge and fill permitting, wetland mitig	gation design, mitigation monitor	ring, recommend	lations for maintenance procedures,
	coordination and oversight of environmental GIS applications, and assistance				
	(4) TITLE AND LOCATION (Office and Office)	19. RELEVANT PROJECTS	Ι /2	VEAR CO	MDLETED
	(1) TITLE AND LOCATION (City and State) City of Fort Lauderdale General Environ	mental Engineering Services	PROFESSIONAL SER) YEAR CO VICES	CONSTRUCTION (If
	Fort Lauderdale, FL				Applicable)
a.					
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE	[X] Check if project perfo	ormed with cu	urrent firm
	Principal (Environmental): Principal-In-Charge Miller Legg has	been providing continuing environmental service	es since 2007 and currently	holds a Genera	al Environmental Engineering
	Services Contract through 2015. Services provided include thre	eatened and endangered species assessments, en	vironmental permitting comp	liance, consen	t order coordination, bid
	preparation, environmental construction observation, certified and lead-based paint evaluations.	arborist services and Phase I and Phase II Envi	ronmental Site Assessments.	Services also ii	nclude indoor air quality/asbestos
	•		I (a) \(\(\in \) \(\in \)	MANUETER
	(1) TITLE AND LOCATION (City and State) Port Everglades Turning Notch Mangrove	e Wetland Creation Project	PROFESSIONAL SER	YEAR CO	CONSTRUCTION (If
b.	Fort Lauderdale, FL	e vvedand ereacion rroject	T KOT EGGIOTATE GER	VIOLO	Applicable)
	Torc Eadder date, TE				
	(3) BRIEF DESCRIPTION (Brief scope, size, cost	, etc.) AND SPECIFIC ROLE	[X] Check if project perfo	ormed with cu	urrent firm
	Project Manager: Miller Legg is a subconsultant to Bergeron L	and Development for this Port Everglades Turni			
	support services for environmental and engineering permit con	mpliance, protected species observation, includin	g mangroves and manatees,	water quality	monitoring, turbidity monitoring,
	erosion control inspection, plan review and environmental adm	ministration and reporting.			
	(1) TITLE AND LOCATION (City and State) Port Everglades Turning Notch Mitigation	n Area Construction	PROFESSIONAL SER) YEAR CO VICES	CONSTRUCTION (If
	Management @ Risk				Applicable)
	Fort Lauderdale, FL				
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	t, etc.) AND SPECIFIC ROLE	[X] Check if project perfo	ormed with cu	urrent firm
	Project Manager: Miller Legg is a subconsultant to Bergeron L	and Development for this Port Everglades envir	onmental construction improv	vement project	t. The firm is providing
	constructability review services including cost estimates for nu	irsery selection, prequalification of nursery subc	onsultants, prequalification an	id identificatio	n of plant installation, selection of
	mitigation maintenance subconsultants, and quality control ob	servation and reports.			
	(1) TITLE AND LOCATION (City and State)		In) YEAR CO	MPI FTFD
	Broward County Parks and Recreation V	Vest Lake Park II -	PROFESSIONAL SER	<i>'</i>	CONSTRUCTION (If
	Environmental Services		2011		Applicable)
	Hollywood, FL				
d.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	, etc.) AND SPECIFIC ROLE	[X] Check if project perfo	ormed with co	urrent firm
u.	Project Manager: Miller Legg is the prime consultant for the	permitting and design of enhancements for the	second phase of this 1,500-a	acre estuarine	wetland. Services provided included:
	paving and drainage improvements for the nature center and and transmission system design, off-site force main, traffic en	associated parking lot, design of three sewage	pump stations, water distrib	ution system (d raviaw sadii	design, sanitary sewage collection
	rap design, benthic macro-invertebrate identification, seagrass	survey, mitigation credit determination, and pe	ermitting. The seagrass survey	was conducte	ed using scuba diving and digital
	global positioning satellite equipment and included transect/qu	uadrant measurements of seagrass density, abun	ndance, and frequency of occ	urrence.	
	(1) TITLE AND LOCATION (City and State)) YEAR CO	MPLETED
	Florida Department of Transportation (F		PROFESSIONAL SER	VICES	CONSTRUCTION (If Applicable)
	Mitigation Area and SR 732/Jensen Beach	Causeway Improvements	2004		2004
	St. Lucie County, FL	AND ODEOLEGO DOLE	Pull Ol I I I'	,	
e.	(3) BRIEF DESCRIPTION (Brief scope, size, cost	·	[X] Check if project perfo		
	Project Biologist: Miller Legg was responsible for the identifica under a Florida Inland Navigational District easement. Miller	ation and survey of proposed seagrass creation	area consisting of a ten-acre	ısland within his included f	Indian River Lagoon on FDEP land
	prioritization of suitable areas to mitigate. Field evaluations	were done to classify the island vegetation and	l use as well as a seagrass s	urvey in the i	sland vicinity. Services provided
	included: jurisdictional determination, mitigation design, pern Performed seagrass surveys, jurisdictional determinations, mitig	nitting, Essential Fish Habitat Assessment, consti	ruction plan development, pu	blic involveme	nt and agency coordination.
	i criorinica scagrass surveys, jurisuictional acterininations, illiti	ganon ucsign, permitting, essential rish nabitat	rissessment, construction pla	acreiopilielli	and public involvement.

		KEY PERSONNEL PROPOSEI				
12.	NAME	13. ROLE IN THIS CONTRACT	,	14.	YEARS EXPERIENCE	
	Jennifer Shipley	Project Biologist		a. TOTAL	b. WITH CURRENT FIRM	
15.	FIRM NAME AND LOCATION (City and State) Miller Legg, Ft. Lauderdale, FL				·	
16.	EDUCATION (DEGREE AND SPECIALIZATION) Bachelor of Arts, Geology		IRRENT PROFESSIONAL RI FDEP Qualified Stormwater Managemen		ON (STATE AND DISCIPLINE)	
18.	OTHER PROFESSIONAL QUALIFICATIONS (Publications, Ms. Shipley is a Project Biologist in the firm's South Florida Office, where sh and endangered species surveys and assessments, benthic surveys, coral, season and endangered species surveys and assessments.	ne is responsible for wetland determination and	delineation, wetland mitigation design	and monitoring,	environmental permitting, threatened	
	I	19. RELEVANT PROJECT				
	(1) TITLE AND LOCATION (City and State)	Nost Lako Park II		YEAR CON		
	Environmental Services Hollywood, FL	vest take rank ii -	2011	VICES	Applicable)	
	(3) BRIEF DESCRIPTION (Brief scope, size, cos	t, etc.) AND SPECIFIC ROLE	[X] Check if project perfo	rmed with cu	rrent firm	
a.	Services provided included: paving and drainage improvement sanitary sewage collection and transmission system design, of analysis, fishery analysis, rip-rap design, benthic macro-invert	s for the nature center and associated parl f-site force main, traffic engineering, survey ebrate identification, seagrass survey, mitig	king lot, design of three sewage p ring, water quality data analysis, l ation credit determination, and pe	oump stations, hypothesis deve rmitting. The s	water distribution system design, elopment and review, sediment seagrass survey was conducted	
	(1) TITLE AND LOCATION (City and State)		(2) YEAR CON	MPLETED	
	Miami-Dade County Department of Envi	ironmental Resources		VICES	CONSTRUCTION (If	
	Virginia Key, FL					
b.	Biologist: A wetland restoration project located in Miami-Dado of existing lakes, ditches, and proposed interconnected chann	Biologist: A wetland restoration project located in Miami-Dade County for the Miami-Dade Department of Environmental Risk Management. The project consists of approximately 52 acres of existing lakes, ditches, and proposed interconnected channels which have been designed to hydrate and restore the existing wetlands within the project boundary close to the historical condition. Miller Legg performed habitat evaluations and mapped existing vegetative communities and identified proposed restoration objectives.				
	(1) TITLE AND LOCATION (City and State)	\\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		,		
	Fort Lauderdale, FL	e Wetland Creation Project	PROFESSIONAL SER	VICES	CONSTRUCTION (If Applicable)	
c.	(3) BRIEF DESCRIPTION (Brief scope, size, cos	t, etc.) AND SPECIFIC ROLE	[X] Check if project perfo	rmed with cu	rrent firm	
	support services for environmental and engineering permit co erosion control inspection, plan review and environmental ad	mpliance, protected species observation, inc	Turning Notch Mangrove Wetland cluding mangroves and manatees,	Creation Proje water quality (ct. The firm is providing field monitoring, turbidity monitoring,	
	(1) TITLE AND LOCATION (City and State)					
	Management @ Risk	n Area Construction	PROFESSIONAL SER	VICES	CONSTRUCTION (If Applicable)	
d.	·	t, etc.) AND SPECIFIC ROLE	[X] Check if project perfo	rmed with cu	rrent firm	
	constructability review services including cost estimates for nu	BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Riche kill project performed with current firm				
	(1) TITLE AND LOCATION (City and State)		(2) YEAR CON		
	•			VICES		
	(3) BRIEF DESCRIPTION (Brief scope, size, cos	t. etc.) AND SPECIFIC ROLF	[X] Check if project perfo	rmed with cu	rrent firm	
e.		services at the preserve area along the Nor The project also included 0.32 acres of s	rth Fork of the St. Lucie River for horeline rip rap protection, fishing	a period of fi g platform, and	ve years. Our biologists also I fixed and floating dock	



E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.) 12. NAME 13. ROLE IN THIS CONTRACT 14. YEARS EXPEREINCE a. Total b. With Current Firm Regulatory Permitting, Impact Assessment, and Cheryl L. Miller 19 9 Seagrass Mitigation Development 15. FIRM NAME AND LOCATON (City and State) Coastal Eco-Group Inc., Deerfield Beach, FL 16. EDUCATION (Degree and Specialization) 17. CURRENT PROFESSIONAL REGISTRATION (State and Discipline) Master of Science, Biological Sciences, Marine Ecology Florida Registered Environmental Professional #245 Specialization 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) 2005 FSBPA Environmental Award; AAUS Scientific Diver; International Coral Reef Society; Southeast Florida Coral Reef Initiative Team Member (SEFCRI), 2003-2012, Vice-Chair (present) South Florida Water Management District Water Resources Advisory Commission 2011-2013 19. RELEVANT PROJECTS (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL CONSTRUCTION (if Rybovich Riviera Beach Marine Facility Project and Rybovich West **SERVICES** applicable) Palm Beach Marina Expansion, Palm Beach County, FL 2010-2014; Ongoing (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE □ Check if project performed with current firms CEG is the agent responsible for obtaining state and federal permits for the proposed marine facility project at Riviera Beach and expansion of the Rybovich Marina at West Palm Beach. Services include ERP permit application development; responding to agency RAIs and agency coordination during permit application review; demonstration of avoidance/minimization of impacts to submerged resources; UMAM mitigation and impact evaluation; and development and agency approval of a seagrass mitigation plan for the cumulative impacts resulting from both projects. Federal agency approval of the combined mitigation plan for both projects was received in September 2014. Ms. Miller serves as Principal Scientist and Project Manager, coordinating the team of coastal engineers and geologists in project development and permitting needs. (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL CONSTRUCTION (if Riviera Beach Municipal Marina Seagrass and Benthic Habitat SERVICES applicable) Survey and Map Development, Palm Beach County, FL 2009 (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE □ Check if project performed with current firms CEG scientists conducted a comprehensive benthic habitat mapping survey of the Riviera Beach Municipal Marina between June 11 and July 1, 2009. The mapping effort delineated percent cover, density and species composition of seagrass and macroalgal beds, and mapping and characterization of rock rubble communities. Survey followed NMFS protocol for the federally listed species Halophila johnsonii. Maps of seagrass distribution were prepared in AutoCad and a written report was produced for submittal to the state and federal regulatory agencies. Ms. Miller served as Principal Scientist and Project (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL CONSTRUCTION (if Lake Worth Lagoon 2013 Seagrass Mapping Survey and 2011-2014 SERVICES applicable) Fixed Seagrass Transect Monitoring, Palm Beach County, FL 2011-2014 (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE □ Check if project performed with current firms The general objective of the PBC fixed seagrass transect monitoring program is to document annual changes in seagrass abundance and distribution as an indicator of seagrass ecosystem health in the Lake Worth Lagoon. CEG conducted the annual surveys of 9 the 9 permanent transects between 2011 and 2014 and prepared annual monitoring reports for PBCERM. In June 2013, CEG was contracted by PBCERM to conduct the 2013 LWL Seagrass Mapping Project. The 4 main tasks were: (1) development and approval of a Final Field Study Plan; (2) 33 days of ground-truthing field work consisting field verification of a minimum of 1,000 locations in LWL and ICW areas of interest, followed by mapping of outer edges of large beds; (3) revisions to the 2007 seagrass shapefiles in ArcGIS and production of draft and final maps; and (4) production of a Final Report including a narrative and tabular summary of findings by sub-basin reach, and an analysis of change in seagrass cover/extent compared to 2007. In total, 1,508 sites were sampled, and the 2013 maps have been used to examine changes in seagrass areal extent and cumulative impacts to seagrasses in the LWL. Ms. Miller served as Principal Scientist and Project Manager for both (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL CONSTRUCTION (if Nova Southeastern University Oceanographic Center Basin **SERVICES** applicable) Realignment and Maintenance Dredging Project, Dania Beach, FL 2013-2014 (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE □ Check if project performed with current firms Conducted seagrass surveys of dredge areas to map and quantify seagrass impacts following the NMFS protocol for the federally listed species Halophila johnsonii; Performed UMAM impact and mitigation assessment and developed on-site mitigation plan involving fill placement to create suitable elevations for seagrass establishment. Coordinated seagrass mitigation plan with regulatory agencies and received agency approval of proposed mitigation activities and monitoring plan. Contract value: \$14,690. Ms. Miler served as Principal Scientist and Project Manager for the project.



	5,500				
		E. RESUMES OF KEY PERSONNEL F	PROPOSED FOR THIS CO	ONTRACT	
		(Complete one Section E	for each key person.)		
	NAME	13. ROLE IN THIS CONTRACT		- T-4-1	ARS EXPEREINCE b. With Current Firm
	lrienne Carter	Environmental Permitting, Ben Seagrass Mitigation	ithic Habitat Mapping	11	5. With Guiter 1 iiii
	FIRM NAME AND LOCATON (City and				
	astal Eco-Group Inc., Deerfield				
	EDUCATION (Degree and Specialization		17. CURRENT PROFESS	IONAL REGISTRATION (St	ate and Discipline)
	ster of Science in Marine Biolo	gy & Remote Sensing TIONS (Publications, Organizations, Training	A((-)		
Am	erican Academy of Underwate	r Scientists (AAUS), International EP), Trained in Uniform Mitigation	Society for Reef Stud		
		1 9. RELEVANT	PROJECTS		
	(1) TITLE AND LOCATION (City and			` '	COMPLETED //
	•	Marine Facility Project and	•	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	Palm Beach Marina Exp	ansion, Palm Beach County,	FL	2010 - 2014	, , , , , ,
	(3) BRIEF DESCRIPTION (Brief scop	e, size, cost, etc.) AND SPECIFIC ROLE		X Check if project perfo	ormed with current firms
a.	and SAV characterization sur and seagrass mitigation sites transects to qualitatively desc Evaluated species cover usin GeoXT DGPS. Co-authored technical responses to Reque with preparation FDEP and U	Marine Scientist with Coastal Ecoveys for the Rybovich Riviera Bea including Little Munyon Island. Lingle bottom type and quantitativel g Braun-Blanquet method. DGPS Biological Assessments and Essests for Additional Information (RASACE permit applications, Uniforr uthored technical reports in comp	ach Marine Facility Prone-intercept and point y assess percent cover mapping of seagrass ential Fish Habitat Assel) from the U.S. Army Mitigation Assessman	pject and Riviera Bead quadrat samples were er of seagrass and spe beds was performed essment. Assisted wi Corps of Engineers a ent Method (UMAM) of	th Municipal Marina e assessed along ecies composition. using a Trimble th preparation of nd NMFS. Assisted locumentation and
	(1) TITLE AND LOCATION (City and	State)		(2) YEAR (COMPLETED
		pass Project, Broward Coun	ty, Florida	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	(2) RDIEE DESCRIPTION (Priof score	e, size, cost, etc.) AND SPECIFIC ROLE		2010 – 2014	prmed with current firms
b.	Work performed as a Senior Marine Scientist with Coastal Eco-Group, Inc. Co-authored NEPA documentation including Biological Assessment (BA) and Environmental Assessment (EA) in compliance with federal requirements under Section 7(c) of the Endangered Species Act. Assisted with preparation of technical responses to Requests for Additional Information (RAI) from the U.S. Army Corps of Engineers (USACE) and NMFS. Co-authored technical reports in compliance with FDEP and USACE permit requirements.				
	(1) TITLE AND LOCATION (City and	State)		(2) YEAR	COMPLETED
	Lake Worth Lagoon And Palm Beach County, FL	nual Seagrass Transect Moni	toring Program,	PROFESSIONAL SERVICES	CONSTRUCTION (if applicable)
	• /	a size aget eta LAND ODECIFIO DOLE		2011 – 2014	arm ad with augre
C.	(3) BRIEF DESCRIPTION (<i>Brief scope, size, cost, etc.</i>) AND SPECIFIC ROLE X Check if project performed with current firms Work performed as a Senior Marine Scientist with Coastal Eco-Group, Inc. Conducted annual seagrass surveys of 9 permanent transects utilizing <i>in situ</i> quadrats, digital video transect data, and delineation of sediment and seagrass cover changes along permanent transects. Evaluated species cover via frequency of occurrence in quadrats and Braun-Blanquet method. Coauthored annual reports to examine long-term trends in seagrass distribution and cover in the Lake Worth Lagoon.				
	•		33 distribution and cov		
	(1) TITLE AND LOCATION (City and	,	• • •	PROFESSIONAL	COMPLETED CONSTRUCTION (if
	Projects, Palm Beach Co	South Boca Raton Beach Ren unty, Florida –Biological Mo Mitigation Artificial Reef , B	nitoring of	SERVICES 2006 - 2014	applicable) 2010 and 2014
d.		e, size, cost, etc.) AND SPECIFIC ROLE		X Check if project perf	ormed with current firms
	Work performed as a Marine Engineering, Inc. Environment benthic habitat mapping; biok and benthic habitat character	Scientist with Coastal Eco-Group, ntal monitoring of hardbottom hab ogical community monitoring of na ization; digital video transect and shical reports in compliance with FE	itats, data analyses, p itural and artificial reef still photography docu	ployment with Coasta roject documentation, s; nearshore hardbot mentation; and interp	I Planning & and pipeline corridor tom edge delineation

E. RESUMES OF KEY PERSONNEL PROPOSED FOR THIS CONTRACT (Complete one Section E for each key person.) 12. NAME 13. ROLE IN THIS CONTRACT 14. YEARS EXPERIENCE a. TOTAL b. WITH CURRENT FIRM Gary A. Zarillo, Ph.D., PG Geologist/Oceanographer 34 15. FIRM NAME AND LOCATION (City and State) Scientific Environmental Applications, Inc., Melbourne, Florida 16. EDUCATION (DEGREE AND SPECIALIZATION) 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) B.S. 1970. Geology, University of Rhode Island Professional Geologist, North Carolina M.S. 1975. Geology, University of Rhode Island & Florida Ph.D. 1979. Geology, University of Georgia 18. OTHER PROFESSIONAL QUALIFICATIONS (Publications, Organizations, Training, Awards, etc.) Excellence in Research, College of Engineering, Florida Institute of Technology, 2002 35 Publications refereed and technical Organizations-American Geophysical Union, Society for Sedimentary Geology 19. RELEVANT PROJECTS 1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED Geotechnical Investigation of the Ocean Ridge Borrow Area for Palm PROFESSIONAL SERVICES | CONSTRUCTION (If applicable) **Beach County, Florida** (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm Core borings collected in 1992, 1993 and 2011 were analyzed to characterize potential sand sources in the Ocean Ridge Borrow areas offshore of south Palm Beach County. Potentially up to 6.1 million yds³ of sand may be available in two areas. Screening of material and strategic dredging may be necessary to avoid scattered rock rubble found at shallow (1) TITLE AND LOCATION (City and State) Geotechnical Investigation for the City of Hillsboro Beach, Florida PROFESSIONAL SERVICES | CONSTRUCTION (If applicable) **Renourishment Project** 2008-2011 (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm A literature research was conducted prior to a geologic seismic study to determine the availability of beach quality sand. Data from core borings collected in 2009 were analyzed with data of cores collected (1996-2001) and a 2009 sub-bottom seismic survey to characterize sand resources in Borrow Area 1 at the north end of Broward County, An estimated 1.12 million vds³ of beach quality material weredepicted in a geologic model of Borrow Area 1. (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED Geomorphic Investigation of Tidal Inlets: Applications in Coastal PROFESSIONAL SERVICES | CONSTRUCTION (If applicable) 2001-2011 **Engineering** (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE Check if project performed with current firm Data post processing and analysis of coastal geomorphic data in GIS software platforms. He developed a public domain ArcViewTM extension to automatically map shorelines by extracting a polygon representation of the beach. ArcViewTM3.x extension termed BEACHTOOLS, calculates transects from a baseline at any user defined interval, allowing for high frequency, shore perpendicular measurement of the wet/dry and vegetation lines. Updated BEACHTOOLS 9.1 and developed INLETGIS9.1 in 2007. (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED CT-39054 Biological Characterization/Numerical Wave Model Analysis PROFESSIONAL SERVICES | CONSTRUCTION (If applicable) within Identified Borrow Sites Offshore the West Coast of Florida 2005-10 (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm Conducted literature research on geological and physical resources to determine the potential impacts of dredging to shoals and near shore beaches. Applied numerical model simulations to test the potential impacts that excavating various volumes of sand may have on 3 sand shoal sites and the beaches nearshore to the sites. The project study area is offshore in Federal waters of west Florida from Sarasota to Lee Counties. (1) TITLE AND LOCATION (City and State) (2) YEAR COMPLETED PROFESSIONAL SERVICES | CONSTRUCTION (If applicable) Palm Beach County, FL- Coastal Sediment Sampling and Analysis 2003-2005 2003-11 (3) BRIEF DESCRIPTION (Brief scope, size, cost, etc.) AND SPECIFIC ROLE X Check if project performed with current firm Supervised offshore vibracoring operations to obtain (56) cores. Logged cores, photographed, and conducted analyses for grain size, carbonate, organic content, and fines for 350 sediment samples. Provided final report of computer-generated grain size data, classifications, and plots in ASTM format using gINT™. Core samples based on sub-surface investigation 125 miles of survey lines using a high resolution CHIRP sub-bottom profiler and side-scan sonar coincident with a

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)



YEAR COMPLETED

20. EXAMPLE PROJECT KEY NUMBER

1

21. TITLE AND LOCATION (City and State)

TraPac Container Terminal Sedimentation Reduction Dredging Project, Jacksonville, FL

PROFESSIONAL SERVICES 2012

CONSTRUCTION (If applicable)
2012

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT	c. POINT OF CONTACT TELEPHONE NUMBER
TraPac, Inc.	Dennis Kelly, Vice President	904-696-4901

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

The TraPac container ship has been experiencing high rates of shoaling at both Berths 16 & 17 since initial construction in 2008, primarily due to eddy formation at Berth 16. Approximately 468,000 CY of sediment was deposited in the two berths between August 2008 and August 2010.

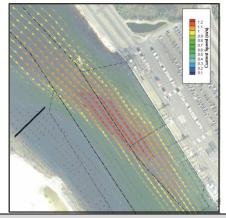
ATM performed a hydrodynamic and sedimentation study to evaluate the problem and identify potential solutions to reduce the sedimentation rate. Current measurements were made with a towed ADCP to obtain both neap and spring tide condition data across a number of transects. A fixed HADCP was mounted on the bulkhead to obtain continuous data to document eddy formation at Berth 16. Bottom sediments were collected at multiple locations and analyzed for grain size distribution and percent organic material. Water samples were also collected at multiple depths concurrent with the ADCP transects to determine TSS and salinity for use in sediment transport modeling.

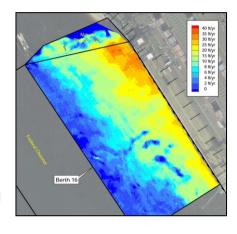
The TSS sampling data indicated a lognormal distribution, suggesting sufficient data was collected to be representative. The highest TSS values were generally found near the beginning of the flood tidal phase and were more pronounced during spring tides, suggesting tidal pumping as the dominant transport mechanism. TSS vs salinity plots indicated a dominant role of re-suspension at the beginning of the flood tidal phase.

Utilizing the collected data, ATM set up a 3-D curvilinear orthogonal finite difference grid of this region of the river and adapted it to the existing SJRWMD EFDC TMDL model. ATM used the sediment transport components of EFDC to evaluate potential solutions for minimizing the shoaling rates in the berths.

The study identified modifications to the entrance channel and berth design that decreases sedimentation rates substantially. Work included modification to the existing UACE & FDEP permits to include the designed modifications to the entrance channel.

ATM developed construction drawings and specifications, provided bid support and construction administration for the modified entrance channel. Approximately 220,000 CY of material was removed to complete the berth modifications. Total ATM Fees: \$242,658





Relevance:

- Navigation
- Hydraulics & Hydrodynamics
- 3-D Flow & Integrated Surface Water Modeling
- Sediment Transport
- Water Quality Analyses
- Analytical & Statistical Data Evaluation
- Design, Bid & Construction Administration Services

25. FIRM	IS FROM SECTION C INVOLVED	WITH THIS PROJECT
Applied Technology & Management, Inc.	(2) FIRM LOCATION(City and State) Jacksonville, FL	(3) ROLE Permitting, Design, Field Data Collection, Construction Services
(1) FIRM NAME Applied Technology & Management, Inc.	(2) FIRM LOCATION(City and State) St. Augustine, FL	(3) ROLE Bid Documents and Technical Specifications
(1) FIRM NAME Applied Technology & Management, Inc.	(2) FIRM LOCATION(City and State) Melbourne Beach, FL	(3) ROLE Dredge Area Modification Design
(1) FIRM NAME Applied Technology & Management, Inc.	(2) FIRM LOCATION(City and State) Gainesville, FL	Quality Assurance/Quality Control
(1) FIRM NAME Applied Technology & Management, Inc.	(2) FIRM LOCATION(City and State) Charleston, SC	(3) ROLE Field Data Collection, Modeling

(Present as many projects as requested by the agency, or 10 projects, if not specified.

Complete one Section F for each project.)



20. EXAMPLE PROJECT

2

21. TITLE AND LOCATION (City and State)

22. YEAR COMPLETED

2014

PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)
2012/2014

Sand Trap Dredging and Expansion, Sebastian Inlet, FL

	23. PROJECT OWNER'S INFORMATION	
a. PROJECT OWNER	b. POINT OF CONTACT	c. POINT OF CONTACT TELEPHONE NUMBER
Sebastian Inlet District	Martin Smithson, Administrator	321-724-5175

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

ATM is supporting the District in the re-design (expansion), permitting and maintenance dredging of the inlet sand trap. This project includes the maintenance dredging of the currently full sand trap and the expansion of the trap to increase both the efficiency and capacity of the structure. Beach compatible sand will be placed on the downdrift beaches. In addition to the sand trap excavation the permitting effort will address potentially direct and secondary impacts to nearshore hardbottom.

This project was constructed in two phases. Phase 1 consisted of the excavation of beach compatible material within the trap and channel under existing permits. This effort was completed in 2012. ATM provided construction administration support for this effort. Phase 2 consisted of expansion of the sand trap including excavation of rock material in addition to sand. ATM supported the permitting of the trap expansion in addition to the development of an updated inlet maintenance program.

In addition to these services, ATM is supporting the District in consultation with State and Federal regulatory agencies with regard to extensive nearshore hardbottom and seagrass resources in the vicinity of the inlet and is conducting both physical and biological monitoring of the 2012 inlet maintenance dredging effort.

ATM also supported the construction of a posthurricane Sandy emergency dune project to restore dunes downdrift of the inlet. This project utilized a combination of inlet maintenance material and sand from an upland source.

Sand trap maintenance dredging and expansion was completed in July of 2014. A total of approximately 300,000 cy of sand have been bypassed to downdrift beaches.

Total construction cost for all phases was \$6.1 million.



Beach placement of inlet trap sand

Services:

- Coastal Engineering design
- Permitting
- Navigation
- Ecosystem Restoration
- Bathymetric Surveying
- Construction Administration
- Physical and Biological Monitoring

	2	25. FIRMS FROM SECTION C INVOLVED	WITH THIS PROJECT
a.	(1) FIRM NAME Applied Technology & Management, Inc.	(2) FIRM LOCATION (City and State) West Palm Beach, FL	(3) ROLE Project Management, Engineering, Permitting
b.	(1) FIRM NAME Applied Technology & Management, Inc.	(2) FIRM LOCATION(City and State) Melbourne Beach, FL	(3) ROLE Construction oversight and management
c.	(1) FIRM NAME	(2) FIRM LOCATION(City and State)	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION(City and State)	(3) ROLE
е.	(1) FIRM NAME	(2) FIRM LOCATION(City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION(City and State)	(3) ROLE

(Present as many projects as requested by the agency, or 10 projects, if not specified.

Complete one Section F for each project.)



20. EXAMPLE PROJECT KEY NUMBER

YEAR COMPLETED

3

21. TITLE AND LOCATION (City and State)

a. PROJECT OWNER

City of St. Augustine

St. Augustine Marina Dredging, City of St. Augustine, FL

PROFESSIONAL SERVICES

2013

CONSTRUCTION (If applicable)
2013

b. POINT OF CONTACT
Jim Piggott, Director General Services

c. POINT OF CONTACT TELEPHONE NUMBER
904-825-1010

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

ATM provided engineering services for the Environmental Resource Permitting and design of a new breakwater and marina expansion of 50 additional boat slips.

The project also included *dredging of 12,000 cubic yards* of accumulated material from the marina basin and transport to an offsite disposal facility. *The permits for dredging and the breakwater were secured in less than 6 months time in early 2011.*

ATM provided construction documents, bid support and construction oversight. *The dredging was completed in 2012*, and the dock expansion was completed in early 2013. Permit modifications for the dredging included the use of Lighthouse Boat Ramp as an alternative offload area site for the dredged material to expedite the dredging.

In addition, ATM provided design and construction administration for installation of the City's 178 slip mooring field project. The project design addressed variable subsurface geology, unique current and wind combinations, and construction within an area actively used for mooring private vessels. The mooring field was completed in 2010.





ATM Fees: Dredging Plans & Specs: \$82,115

Services Rendered:

- Engineering
- Permitting
- Construction Bid Documents
- Construction Oversight

	2	5. FIRMS FROM SECTION C INVOLVED	WITH THIS PROJECT
a.	(1) FIRM NAME Applied Technology & Management, Inc.	(2) FIRM LOCATION(City and State) Melbourne Beach, FL	(3) ROLE Engineering, Permitting, Construction Services
b.	(1) FIRM NAME	(2) FIRM LOCATION(City and State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION(City and State)	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION(City and State)	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION(City and State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION(City and State)	(3) ROLE

(Present as many projects as requested by the agency, or 10 projects, if not specified.

Complete one Section F for each project.)



20. EXAMPLE PROJECT

EAR COMPLETED

4

21. TITLE AND LOCATION (City and State)

Martin County Dredging Feasibility Studies, Martin County, FL

PROFESSIONAL SERVICES

CONSTRUCTION (If applicable)

2012

2008/2012

	23. PROJECT OWNER'S INFORMATION	
a. PROJECT OWNER	b. POINT OF CONTACT	c. POINT OF CONTACT TELEPHONE NUMBER
Martin County, FL	Kathy Fitzpatrick, P.E.	772-288-5429

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

ATM has performed a number of feasibility, permitting, design and construction services related to dredging within the Manatee Pocket area in Martin County. The Manatee Pocket is comprised of publicly maintained water access/drainage and privately-owned residential properties with limited navigation access.

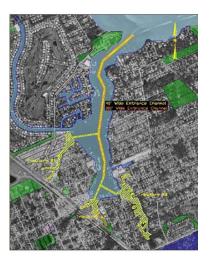
As part of the Broward Street boat ramp maintenance dredging project, ATM performed a feasibility study, cost analysis, sediment testing, and permit and submerged lands lease applications. The project removed approximately 2,500 cubic yards of muck over 30,000 square feet of public navigation channel accessing boat ramp and immediately adjacent to privately-owned residential slips in Stuart, FL. ATM's **Environmental Resource Application was** deemed complete in February 2006 by the DEP. In addition to identifying potential hurdles prior to permitting the removal of material with elevated levels of copper, mercury, and arsenic, ATM also created the construction documents, drawings, and specifications for the bidding and construction of the project. This project was bid and constructed with oversight by ATM during the summer of 2008.

In 2007, ATM performed additional dredge feasibility studies and reports, and coordinated the sample acquisitions and analyses of sediments from multiple locations within three water bodies in Martin County. Samples were taken at the mouth

and from an internal location within Warner Creek, Danforth Creek, and Hidden River.

ATM identified potential permitting hurdles, generated preliminary designs, identified upland disposal sites, and generated initial cost estimates for the removal of muck and sediment in Manatee Pocket. In addition to the feasibility study and report, ATM outlined a post-project monitoring plan designed to quantify the environmental benefits gained from the removal of muck from the existing system. ATM analyzed the project and determined its eligibility to receive cost sharing grants and funding from local agencies. The initial study was expanded to include the engineering feasibility and initial cost estimates of dredging nearby Warner Creek.

From 2011 through 2012, ATM provided construction observation and administration support for the Manatee Pocket Dredging Project, which involved the hydraulic and mechanical excavation of over 250,000 cubic yards of primarily muck material. The project involved the removal of material from both the public waterway and adjacent private parcels.



Services Rendered:

- Project Feasibility
- Alternatives Analysis
- Cost Analysis
- Sediment Testing
- Permitting
- Bidding
- Construction Management

	25. Fl	RMS FROM SECTION C INVOLVED WITH 1	THIS PROJECT
a.	(1) FIRM NAME Applied Technology and Management, Inc.	(2) FIRM LOCATION <i>(City and State)</i> West Palm Beach, FL	(3) ROLE Project Management, Engineering, Feasibility Studies, Design, Bid, Construction Management
b.	(1) FIRM NAME	(2) FIRM LOCATION(City and State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION(City and State)	(3) ROLE

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)



20. EXAMPLE PROJECT

5

21. TITLE AND LOCATION (City and State)

PROFESSIONAL SERVICES
Ongoing

YEAR COMPLETED

CONSTRUCTION (If applicable)

Lake Worth Lagoon Waterway Dredging, Town of Palm Beach, FL

	23. PROJECT OWNER'S INFORMATION	
a. PROJECT OWNER	b. POINT OF CONTACT	c. POINT OF CONTACT TELEPHONE NUMBER
Town of Palm Beach, FL	Rob Weber – Coastal Coordinator	561-838-5440

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

The Town of Palm Beach is performing maintenance dredging of existing legacy navigation channels and access spurs to existing residential docks east of the Atlantic Intracoastal Waterway in the Lake Worth Lagoon.

An innovative and cost-effective plan for dredged sediment placement is being permitted for the project, wherein the sediments will be placed in an existing anoxic deep dredge hole near the project area. This approach will perform the environmental enhancement of bringing the dredge hole into the photic zone, while also providing an economically viable material placement plan.

Currently in the permitting stage, the project will result in both navigational and environmental benefits for the Town of Palm Beach and its residents. The project proximity to the C-51 canal discharge has contributed to the canal sedimentation. The maintenance dredging of these canals will; increase the flushing and circulation in the project areas, remove muck sediments from portions of the project areas, improve residential recreational navigation, and reduce the amount of vessel groundings.

The project has involved significant public outreach and public involvement. Affected residents formed an association and entered into an agreement with the Town for funding assistance, with the Town as the permittee. This arrangement was extremely beneficial to the permitting process.

The total sediment to be removed is estimated at 55,200 cy at a cost of \$1,380,000. ATM Fees: \$160,000



Relevance:

- Navigation
- Waterway Engineering & Analysis
- Ecosystem Restoration
- Bathymetric Surveying
- Sediment Sampling/Testing
- Environmental Survey
- Permitting
- Dredged Material Management
- Public Outreach

	25. FI	RMS FROM SECTION C INVOLVED WITH T	THIS PROJECT
a.	(1) FIRM NAME Applied Technology & Management, Inc.	(2) FIRM LOCATION(City and State) West Palm Beach, FL	(3) ROLE Project Management and Engineering, Seagass Surveying
b.	(1) FIRM NAME Applied Technology & Management, Inc.	(2) FIRM LOCATION <i>(City and State)</i> COCOa Beach, FL	(3) ROLE Surveying Services
c.	(1) FIRM NAME SEA	(2) FIRM LOCATION(City and State) Melbourne, FL	(3) ROLE Geotechnical Services
d.	(1) FIRM NAME	(2) FIRM LOCATION(City and State)	(3) ROLE



20. EXAMPLE PROJECT KEY NUMBER

6

21. TITLE AND LOCATION (City and State)

Treasure Beach Canal Dredging Projects, St. Johns County, FL

22. YEAR COMPLETED PROFESSIONAL SERVICES CONSTRUCT 2013

CONSTRUCTION (If applicable)
2014

23.	PRO.	JECT	OWNER'S	INFORMATION
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a. PROJECT OWNER

St. Johns County Board of County Commissioners

b. POINT OF CONTACT

c. POINT OF CONTACT TELEPHONE NUMBER

904-209-0190

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

ATM performed a feasibility analysis of dredging over five miles of residential canals in the Treasure Beach subdivision. The canal system includes an access channel to the canals from the Intracoastal Waterway. The canals were last dredged in 1994 after being constructed over a period of time starting in the 1950s. ATM's analysis included an estimate of the amount of dredged material, a comparison of dredging methods, a summary of permitting requirements, an assessment of funding opportunities and mechanisms, an opinion of cost, and our recommendations. The project culminated with a Final Report and presentation to the homeowners association in 2008.

The project required coordination with County Staff and local homeowners through on site meetings and presentation to the general public. Due to the sensitive nature of this project, ATM assisted the County with the public relations efforts to ensure approval by all stakeholders.

In 2013, with the project formally approved by the Board of County Commissioners, Applied Technology and Management was part of the team that won a competitive bid to design, permit and manage the dredging project.

ATM provided engineering planning, design, and technical support for dredging and disposal of ~86,000 cy of maintenance material from the County-maintained canals.

ATM focused on development of conceptual design for a temporary dredge materials management area (DMMA) at the Florida Inland Navigation District's (FIND) SJ-20A site. This effort required field and data review, close coordination with the County, FIND, USACE, and FDEP. ATM also supported permitting with technical input and documentation related to the DMMA.

At the County's request, ATM also developed bid drawings for improvements to the Butler Park boat ramp as part of the project





Services Rendered in 2008:

- Engineering Feasibility Study
- Assessment of Funding Opportunities
- Opinion of Cost & Recommendations
- Dredging Method Comparisons
- Public Liason

2013 Activities

- Permitting
- DMMA Engineering Design
- Coordination
- Boat Ramp Improvements Design Plans & Specs

ATM Fees: \$35,000

	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT		
1.	(1) FIRM NAME Applied Technology and Management, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Melbourne Beach, FL Cocoa Beach, FL	(3) ROLE Project Engineer Surveying
2.	(1) FIRM NAME Applied Technology and Management, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Jacksonville Beach, FL	(3) ROLE Engineering Support, CAD
	(1) FIRM NAME	(2) FIRM LOCATION(City and State)	(3) ROLE
3.	Applied Technology and Management, Inc.	West Palm Beach, FL	Environmental Support

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT (Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)



20. EXAMPLE PROJECT

21. TITLE AND LOCATION (City and State)

City of Fernandina Beach Marina Dredging Feasibility Study

PROFESSIONAL SERVICES 2011

YEAR COMPLETED CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMA

a. PROJECT OWNER	b. POINT OF CONTACT	c. POINT OF CONTACT TELEPHONE NUMBER
City of Fernandina Beach, FL	Mr. Lynn Williams, Nassau Co. FIND Commissioner	904-491-0059

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT

ATM completed an alternatives assessment of three potential alternatives to the maintenance dredging regime for the City of Fernandina Beach, Florida's municipal marina. Current maintenance is conducted using mechanical dredge technology with disposal in a distant CDF (via barge) or landfill (via truck haul). Both alternatives are expensive and unsustainable. Alternatives evaluated included development of a new nearby CDF, use of rapid dewatering technology and implementation of water injection dredging (WID).

Previous to this recent alternatives analysis, ATM planned and designed marina improvements to reduce marina sedimentation. Services included hydrodynamic modeling, sediment and water chemistry analysis, marsh creation design, and dredge planning and design.



Services Rendered:

- **Alternatives Assessment**
- Modeling
- **Chemistry Analysis**
- Marsh creation Design
- Dredge Planning & Design

	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT						
a.	(1) FIRM NAME Applied Technology & Management, Inc.	(2) FIRM LOCATION(City and State) Gainesville, FL	(3) ROLE Alternatives Assessment				
b.	(1) FIRM NAME Applied Technology & Management, Inc.	(2) FIRM LOCATION(City and State) Melbourne Beach, FL	(3) ROLE Engineering Consultant				
c.	(1) FIRM NAME	(2) FIRM LOCATION(City and State)	(3) ROLE				
d.	(1) FIRM NAME	(2) FIRM LOCATION(City and State)	(3) ROLE				
e.	(1) FIRM NAME	(2) FIRM LOCATION(City and State)	(3) ROLE				
f.	(1) FIRM NAME	(2) FIRM LOCATION(City and State)	(3) ROLE				

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)



20. EXAMPLE PROJECT

8

21. TITLE AND LOCATION (City and State)

Hillsboro Canal Dredging Project, Boca Raton, FL

PROFESSIONAL SERVICES
Ongoing

'EAR COMPLETED

CONSTRUCTION (If applicable)

23. PROJECT OWNER'S INFORMATION						
a. PROJECT OWNER	b. POINT OF CONTACT	c. POINT OF CONTACT TELEPHONE NUMBER				
City of Boca Raton, FL Jennifer Bistyga – Coastal Coordinator 561- 416-3397						

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT.

The City of Boca Raton is conducting the Phase I project in coordination with an FIND grant for performing maintenance dredging of the Hillsboro Canal, servicing residential boating, as well as public and private marinas. The project length is from the confluence with the El Rio Canal to the west, extending to Deerfield Island Park to the east.

Bathymetric survey and analysis have located the shoaled areas and allowed for a calculation of existing dredge volumes. Both physical and chemical analyses have been performed on project area sediment samples, and a seagrass survey has been conducted for all proposed dredging locations.

When completed, the project will result in navigational benefits for the City of Boca Raton and its residents. The Hillsboro Canal was initially excavated by the USACE and has been used for flood control, commerce, and recreational boating. The maintenance dredging of the canals will improve navigation and reduce the amount of vessel groundings. The project is ongoing in 2014.

ATM Fees: \$98,650



As part of a maintenance dredging, ATM provided outreach and education by holding several public forum meetings. The meetings were held to inform, educate and solicit feedback from public and private stake holders as well as adjacent municipalities. ATM incorporated the stakeholder comments and feedback into a revised dredging plan. ATM also presented the project to various municipal and marine advisory boards as project outreach and to garner support for the project. Progress meetings are being conducted throughout the regulatory permitting process of this project.

Services Rendered:

- Bathymetric Surveying
- Geotechnical/Sediment Analysis
- Disposal/Dewatering Site Selection
- Seagrass/Benthic Resource Survey
- Permitting
- Plans/Specs/Bid Assistance
- Meetings/ Coordination

	25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT								
a.	(1) FIRM NAME Applied Technology & Management, Inc.	(2) FIRM LOCATION <i>(City and State)</i> West Palm Beach, FL	(3) ROLE Project Management, Engineering, Coordination						
b.	(1) FIRM NAME Applied Technology & Management, Inc.	(2) FIRM LOCATION <i>(City and State)</i> Cocoa Beach, FL	(3) ROLE Surveying Services						
c.	(1) FIRM NAME CEG	(2) FIRM LOCATION(City and State) Deerfield Beach, FL	(3) ROLE Seagrass Survey						
d.	(1) FIRM NAME SEA	(2) FIRM LOCATION(City and State) Melbourne, FL	(3) ROLE Geotechnical Services						
e.	(1) FIRM NAME	(2) FIRM LOCATION(City and State)	(3) ROLE						

20. EXAMPLE PROJECT KEY NUMBER

(Present as many projects as requested by the agency, or 10 projects, if not specified.

Complete one Section F for each project)

9

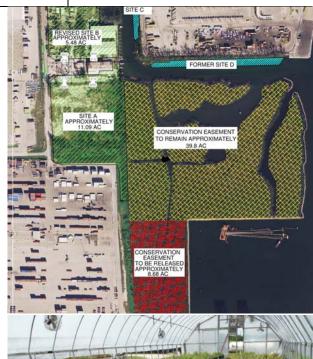
21. TITLE AND LOCATION (City and State)	22. YEAR C	OMPLETED
Port Everglades Turning Notch Mangrove Wetland Creation Project Fort Lauderdale, FL	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER	b. POINT OF CONTACT NAME	c. POINT OF CONTACT TELEPHONE NUMBER
Broward County Port Everglades	Bob Musser	(954) 468-0158

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Miller Legg is a subconsultant to Bergeron Land Development for this two-step Port Everglades Turning Notch Mangrove Wetland Creation Project. During preconstruction, the firm provided constructability review services including cost estimates for nursery selection, prequalification of nursery subconsultants, prequalification and identification of plant installation, selection of mitigation maintenance subconsultants, and quality control observation and reports. Currently during construction, the firm is providing field support services for environmental and engineering permit compliance, protected species observation, including mangroves and manatees, water quality monitoring, turbidity monitoring, erosion control inspection, plan review, environmental administration and reporting, and mangrove and upland planting oversight.





25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

	(1) FIRM NAME	(2) FIRM LOCATION (City & State)	(3) ROLE
a.	Miller Legg	Ft. Lauderdale, FL	Subconsultant
b.	(1) FIRM NAME	(2) FIRM LOCATION (City & State)	(3) ROLE
c.	(1) FIRM NAME	(2) FIRM LOCATION (City & State)	(3) ROLE
d.	(1) FIRM NAME	(2) FIRM LOCATION (City & State)	(3) ROLE
e.	(1) FIRM NAME	(2) FIRM LOCATION (City & State)	(3) ROLE
f.	(1) FIRM NAME	(2) FIRM LOCATION (City & State)	(3) ROLE

(Present as many projects as requested by the agency, or 10 projects, if not specified.

Complete one Section F for each project)

20. EXAMPLE PROJECT KEY NUMBER

10

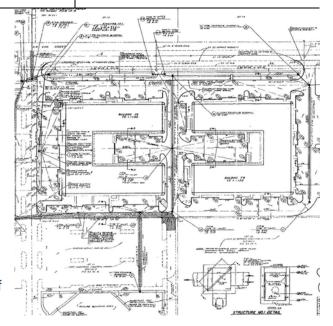
21. TITLE AND LOCATION (City and State)	22. YEAR COMPLETED				
City of Fort Lauderdale Executive Airport (FXE) Parcels B, C & D	PROFESSIONAL SERVICES	CONSTRUCTION (If Applicable)			
Permitting Fort Lauderdale, FL	2014				

23. PROJECT OWNER'S INFORMATION

d. PROJECT OWNER	e. POINT OF CONTACT NAME	f. POINT OF CONTACT TELEPHONE NUMBER
City of Fort Lauderdale	Fernando Blanco	(954) 828-6536

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (Include scope, size, and cost)

Miller Legg modified/obtained permits, prepared specifications, plans, bidding services and provided construction administration and post construction services for cleaning and grubbing for the FXE Parcels B, C and D. Engineering services included the preparation of an earthwork estimate of quantities and probable cost report, which required coordination with various City departments and Geotechnical professionals. The report consisted of classifying existing soils, quantifying earthwork activities, estimating construction costs for City budgeting purposes, and preparation of earthwork plans for site filling and construction of berm. Services rendered also included the preparation of bid documents consisting of specifications, grading plans, and pollution prevention plans. In addition, Miller Legg prepared engineering plans for the installation of permanent and temporary fencing, requiring traffic engineering services and coordination with City surveyors, contractor, utility companies, and City of Ft. Lauderdale permitting officials. Miller Legg also performed compliance monitoring for fence installation, as well as for site plan clearing and environmental construction.



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT							
	(1) FIRM NAME	(2) FIRM LOCATION (City & State)	(3) ROLE				
a.	Miller Legg	Ft. Lauderdale, FL	Prime				
b.	(1) FIRM NAME	(2) FIRM LOCATION (City & State)	(3) ROLE				
c.	(1) FIRM NAME	(2) FIRM LOCATION (City & State)	(3) ROLE				
d.	(1) FIRM NAME	(2) FIRM LOCATION (City & State)	(3) ROLE				
e.	(1) FIRM NAME	(2) FIRM LOCATION (City & State)	(3) ROLE				
f.	(1) FIRM NAME	(2) FIRM LOCATION (City & State)	(3) ROLE				

MILLER

		G. KEY PERSONNEL PARTICI	PATION I	N EXAM	PLE PRO	JECTS						
	IAMES OF KEY PERSONNEL From Section E, Block 12)	27. ROLE IN THIS CONTRACT (From Section E, Block 13)			in "Examp	le Project	s Key" sec	ction below	O IN SECT v before co ation in sa	mpleting		
(FIGHT Section 2, Stock 12)			1	2	3	4	5	6	7	8	9	10
Micha	el Jenkins, PhD, PE	Principal/QA/CC		Х		Х	Х			Х		
Josep	h Chaison, PE	Project Manager		Х			Х	Х		Х		
Steve	n Peene, Ph.D.	Water Quality	Х									
Pete F	Peterson, P.E.	Engineering and Design	Х	Х	Х			Х	Х			
Gary E	Bazemore, PSM	Hydrographic and Land Surveying		Х			Х	Х		Х		
Rober	t Semmes, MS	Sediment Planning	Х				Х		Х			
John \	Wazak	Field Work				Х	Х			Х		
Jesse	Eakin	CAD Technician		Х			Х	Х		Х		
Dylan	Larson, PWD, CEP, CLI	Upland Interface, Permitting									Х	Х
Jennif	er Shipley	Biologist – Upland/Permitting									Х	Х
Chery	l Miller	Environmental Assessments		Х								
Adrier	nne Carter	Environmental Assessments		Х								
Gary 2	Zarillo (SEA)	Sediment and Geotechnical Analysis		Х			Х					
		29. EXAMPLE	PROJEC	TS KEY								
NO. TITLE OF EXAMPLE PROJECT (FROM SECTION F)		NO.	TITLE OF	EXAMPL	E PROJE(CT (FROM	1 SECTIO	N F)				
1	Trapac Container Terminal Sedimentation Reduction Dredging			6 Treasure Beach Canal Dredging								
2	Sebastian Inlet District	bastian Inlet District Sand Trap Dredging 7 City of Fernandina Beach Marina Dredging Feasibilit			ty							

8

9

10

Permitting

St. Augustine Marina Dredging & Breakwater

Waterway Dredging of Lake Worth Lagoon

Manatee Pocket Dredging

STANDARD FORM 330 (Section G) PAGE #

Hillsborough Canal Dredging

Port Everglades Turning Notch Mangrove Wetland

Fort Lauderdale Executive Airport Parcels B, C, D



H. ADDITIONAL INFORMATION

 PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED:

A registered Florida Corporation, Applied Technology & Management, Inc. (ATM) has provided coastal, environmental, marine, and water resources engineering and science services to a vast array of public and private clients for over 30 years. Founded in 1984, ATM has eight offices located in the eastern United States (seven in Florida). Our staff of 50 includes Professional Engineers, Ecologists, Environmental Scientists, Modelers, Marina Consultants, a Professional Surveying Team, and CAD and GIS Specialists that work on projects throughout the United States and internationally.

ATM assists our clients with complex environmental and development issues in oceans, waterways, and along the shoreline. ATM's broad array of technical support includes assistance with assessment, planning, management, permitting, development, mitigation, and compliance.

Maintenance dredging of developed waterways and marinas as well as new-work deepening, widening, and establishment of new channels and basins are major issues throughout Florida, and ones that ATM has been dealing with for many years. ATM's Coastal/Marine Engineering Division has been the consultant engineer on dredging projects throughout the southeastern U.S. and abroad for well over two decades. Our projects have included port and harbor expansions, marina development, shoreline stabilization, maintenance dredging, dredged material management, channel and berth



deepening/widening and inlet management planning. We have considerable experience and expertise in projects that involve the dredging of materials ranging from rock, to sand, to high silt "muck" material, including a range of available dredging, dewatering and disposal methods. Project sites range from small, environmentally sensitive locations to urban, heavy-use, and congested facilities. Issues considered throughout our projects have been minimization of impacts to environmental resources, implementation of recognized and advanced industry standards in design and construction techniques, and specific attention to scheduling and cost.

Our staff engineers and scientists are highly experienced with evaluating projects in terms of long-term management and sustainability within the complex regulatory framework of Florida and the southeastern U.S. Determining the best long-term solution for each project has given our staff varied project experience that includes: open-water disposal design, planning, and permitting; engineered confined disposal facilities for upland disposal; evaluation of a range of dredging techniques and alternatives to dredging; and development of beneficial use options for management of maintenance dredged material. The ATM Team is especially knowledgeable of the federal, state and local regulations that must be addressed to complete the permitting process.

In general, our dredging services include:

- Feasibility & Alternatives Studies
- Evaluation of Existing Conditions, Processes & Causes of Sedimentation
- Development and Permitting of Dredged Material Management Areas (DMMAs)
- Ocean Disposal Permitting, Design, & Environmental Studies
- State & Federal Permitting & Coordination
- Dredging Project Design & Specifications

- Dredging Project Management & Monitoring
- Hydrographic, Bathymetric & Upland Surveys
- Environmental Resource Surveys, Mitigation Strategies & Habitat Creation Plans
- Beneficial Uses for Dredged Material including beach nourishment, sand bypassing, marsh & wetland creation, habitat islands, & geotubes)
- Public Coordination & Liason
- Construction Administration Services

Within the last 10 years alone, we have overseen the design and dredging of over 5 million cy of dredged material with aggregate construction costs exceeding \$50 million. An overview of relevant dredging projects and the range of services provided is presented within *Table 1 – Representative ATM Dredge Experience*, included at the end of this section.

ATM - SURVEYING CAPABILIES

ATM is a Florida licensed survey company providing a wide range of land and hydrographic surveying services using in-house equipment. Key staff has over 35 years of combined surveying experience and utilizes state-of-the-art technology in conducting both nearshore hydrographic and upland surveys. ATM's surveyor uses a 25' survey vessel capable of deploying a range of hydrographic survey equipment including side-scan sonar, sub-bottom seismic sonar, magnetometers, echosounder, Acoustic Doppler Current Profilers (ADCP), camera systems, water quality instruments, and tide gauges. These instruments are regularly used for the completion of inshore and nearshore survey tasks. Our GPS-based survey and mapping capabilities allow for rapid and flexible topographic surveys at remote locations. ATM's Trimble RTK GPS, which provides millimeter accuracy, is used to establish horizontal and vertical control networks for the variety of surveys required for coastal and environmental projects. In addition to the RTK survey-grade GPS, ATM maintains a Trimble marine DGPS with beacon, satellite, and OmniSTAR capabilities, as well as conventional survey equipment such as differential levels and total stations.

In addition to our GPS technology, ATM's equipment for hydrographic and bathymetric work includes an Odom Precision Fathometer, RDI Workhorse ADCP, water quality instruments, and the latest HYPACK 2014 software to provide real-time hydrographic data for mapping purposes. The equipment can be deployed either on ATM's 25' all-weather survey vessel or configured for other boats as required for remote locations.

PERMITTING - RAI

ATM's staff has the necessary understanding of technical, environmental, legal and public awareness issues to deal with the permitting process. We have an on-going, cooperative relationship with the permitting agencies with whom we work on a daily basis. This enables both the regulator and the applicant to meet their goals without costly battles.

In addition to many state and local agencies, our project team members all have extensive and successful working relationships with:

- Florida Department of Environmental Protection (FDEP)
- Environmental Protection Agency (EPA)
- South Florida Water Management District (SFWMD)
- Florida Inland Navigation District (FIND)
- Florida Fish and Wildlife Conservation Commission
- U.S. Army Corps of Engineers (USACE)
- Southwest Florida Water Management District (SWFWMD)
- U.S. Geological Survey

- Broward County Environmental Protection and Growth Management Deoartment (BCEPGMD)
- West Coast Inland Navigation District (WCIND)
- Marine Industry Association of South Florida
- USACE Waterways Experiment Section
- Marine Industry Association (MIA) of Palm Beach County

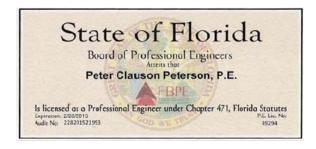
LICENSES











Work for this project will come mainly from our West Palm Beach office. This office services as ATM's lead office for the Coastal Engineering Team. Both Principal, Michael Jenkins, Ph.D., P.E. and Project Manager, Joseph Chaison, P.E. and other support staff are located in this office. Contact information is:

Michael Jenkins, Ph.D, P.E. / Joseph Chaison, P.E. Applied Technology & Management 2047 Vista Parkway, Suite 201 West Palm Beach, FL 33411

Ph: 561-659-0041 / Fax: 561-659-3733

Mjenkins@appliedtm.com / jchaison@appliedm.com

Website: www.appliedtmm.com

A breakout of our staff disciplines is shown in the SF330 Part II forms.

FIGURE I - SELECTED DREDGING EXPERIENCE



Project Name	Dredging & Disposal Design	Alternatives/ Feasibility Study	Environmental Studies – EIA/EIS	Financial/ Economic Analysis	Sediment Testing Plan/ Evaluation	Agency/ Public Coordination	Environmental Permitting
Treasure Beach Canal Dredging, St. Johns Co., FL	X	X		Х		X	X
Sebastian Inlet Sand Trap Dredging, FL	Х					Х	Х
South Lake Worth Inlet Sand Trap Expansion & Maintenance Dredging, Palm Beach Co., FL	Х	Х			Х	Х	Х
St. Augustine Municipal Marina Dredging, FL	Х		Х		Х		Х
TraPac Dredging Project, Jax Port, Jacksonville, FL	Х	Х		Х	Х	Х	Х
Lighthouse Point Dredge & Bulkhead, Jacksonville, FL	Х	Х		Х	Х	Х	Х
Tampa Bay Canal Dredging, Tampa, FL	Х		Х				
Crab Cay Dredging, Great Exuma, Bahamas	Х	Х	Х	Х	Х	Х	Х
CertainTeed Gypsum, Jacksonville, FL	Х	Х		Х	Х	Х	Х
Albemarle Point CDF Study, Charleston, SC	Х	Х		Х	Х	Х	
Yacht Haven Grande, St. Thomas, USVI	Х	Х	Х	Х	Х	Х	Х
Marsh Landing Marine Basin Excavation, Ponte Vedra, FL	Х		Х			Х	Х
Lake Park Marine Revitalization Dredging, FL	Х	Х	Х	Х	Х	Х	Х
Marineland Marina Expansion, Marineland, FL	Х		Х		Х	Х	Х
Village Creek Landing Dredge Disposal & Beneficial Uses Analysis, St. Simons Island, GA	Х	Х		Х	Х	Х	
Beach Marine Maintenance Dredging, Jacksonville, FL	Х		Х		Х	Х	Х
Broward Street Boat Ramp Maintenance Dredging, Martin Co., FL	Х	Х				Х	Х

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Project Name	Dredging & Disposal Design	Alternatives/ Feasibility Study	Environmental Studies – EIA/EIS	Financial/ Economic Analysis	Sediment Testing Plan/ Evaluation	Agency/ Public Coordination	Environmental Permitting
Dredge Feasibility Studies – Warner, Danforth and Hidden River Creeks, Martin Co., FL		X	X	Χ	Х	X	
Manatee Pocket Dredging Feasibility Study, Martin Co., FL		Х	X	Х			
Martin County Dredge Feasibility Study, FL	Χ	Х	X	Χ	Х	Х	Х
Grand Bahama Island Resort, Dredging Design	Χ	X	X	Χ	Χ	Х	X
Bimini Inlet Dredge Design, Bahamas	Χ	X	X	Χ		X	X
Ambersand Beach Nourishment, Indian River Co., FL	Χ	X	X			X	X
Lake Osborne Feasibility Study & Muck Dredging Project, Palm Beach County, FL	Х	Х	X		Х		
Georgetown Harborwalk Marina Dredging, SC	Χ	Х	Х	Χ	Х	Х	Х
Indian River Marina Redevelopment, Rehoboth Beach, DE	Х	Х	X	Χ	Х	Х	Х
New Turning Basin & Berth Facilities, Elba Island, SC		Х	X	Χ	Х	Х	Х
Long-Term Dredge Material Mgmt Strategy, South Island Dredging Association, Hilton Head, SC	Х	Х	X	Х	Х	Х	Х
GPA, Agitation Dredging, Savannah Harbor			X	Χ	Х	Х	Х
Container Berth Expansion 7 & 8, Savannah Terminal, Garden City, GA		Х	X	Χ	Х	Х	X
Hutchinson Island Slip 1, Savannah Harbor		Х	Х	Χ	Х	Х	Х
Kiawah Island, Charleston, SC	Χ	Х	X	Χ	Х	Х	Х
Harbor Town Dredging and Disposal Plan, Hilton Head, SC	Χ	Х	X	Χ	Х	Х	Х
International Paper Maritime and Marina Center, Daufuskie Island, SC	Х	Х	X	Х	Х	Х	Х

Project Name	Dredging & Disposal Design	Alternatives/ Feasibility Study	Environmental Studies – EIA/EIS	Financial/ Economic Analysis	Sediment Testing Plan/ Evaluation	Agency/ Public Coordination	Environmental Permitting
Baynard and Braddock Cove, Hilton Head, SC	Х	X	Х	Х	Х	X	X
Patriots Point, Charleston, SC	Х	X	Х	Х	Х	X	Х
Georgia Ports Authority, Savannah Harbor Expansion, Savannah, GA	Х	Х	Х	Х	Х	Х	
The Landings at Skidaway Island, GA	Х	Х	Х	Χ	Х	Х	Х
Vilano Boat Basin and Marina, St. Augustine, FL	Х	Х	Х	Χ	Х	Х	Х
Queens Harbor, Jacksonville, FL	Х	Х	Х	Х	Х	Х	Х
St. George Island Canal and Marina, St. George Island, FL	Х	Х	Х	Х	Х	Х	Х
Naples Landing Park, Naples, FL	Х	Х	Х	Χ	Х	Х	Х
Takeda Chemical USA, Wilmington, NC	Х	Х	Х	Х	Х	Х	Х
Habert International Canal and Turning Basin, Theodore Industrial Park, Mobile Ship Channel, AL	Х	Х	Х	Х	Х	Х	Х
Washesaw Marina, Pawleys Island, SC	Х	Х	Х	Χ	Х	Х	Х
Willbrook Plantation Canal/ Marina, Pawleys Island, SC	Х	Х	Х	Χ	Х	Х	Х
Briar Cliff Marina, Myrtle Beach, SC	Х	Х	Х	Х	Х	Х	Х
HarbourGate Marina, Little River, SC	Х	Х	Х	Χ	Χ	Х	Х
Shorefront Management Plan, Horry and Georgetown County, SC	Х	Х	Х	Х	Х	Х	Х
Beach Nourishment, Horry/Georgetown County, SC	Х	Х	Х	Χ	Х	Х	Х

KEY STAFF OVERVIEWS - ATM

(Key subcontractor staff were discussed in Section 8. Subcontractors.)

Michael Jenkins, Ph.D., P.E., Principal-in-Charge — Dr. Jenkins' expertise includes dredging design and habitat restoration with dredged materials. He will be responsible for technical overview and assuring project QA/QC. Dr. Jenkins' work includes a range of dredging design, permitting and construction projects within Florida. Related work includes dredging projects in Martin, Indian River, and Palm Beach counties and for the City of Tampa, as well as the ongoing Sebastian Inlet Sand Trap dredging. Dr. Jenkins is well-versed in the regulatory requirements for dredge projects within Florida and maintains successful proactive relationships with multiple federal and state regulatory agencies involved in dredging within the region. Dr. Jenkins has led ATM's Coastal Engineering Division for over 10 years.

Joseph Chaison, P.E., Project Manager – As discussed in Section 3. of this response, Mr. Chaison has designed and overseen the design, mitigation and construction of; navigation maintenance and new-work dredging, dike, spillway, beach nourishment, coastal structure, and seawall projects. He has participated in all phases of coastal engineering projects, from feasibility studies, numerical modeling, environmental impact statements, local, state, and federal permitting, grant funding application, design, plan and specification development, bid form preparation, procurement, award, construction inspection, survey, acceptance, payment review, and monitoring. Mr. Chaison is currently the Project manager of two municipal dredging projects which are coordinating with FIND; Hillboro Canal and Town of Palm Beach Waterways, and understands the needs of municipal dredging projects.

Pete Peterson, P.E., Project Manager – Mr. Peterson has 20+ years of experience in coastal and marine engineering. He has served as the *Engineer of Record on several dredging projects* within Florida and the Southeast Atlantic. He developed the plans, specifications and permit applications for the *maintenance dredging of several marinas and boat basins*. He routinely conducts site operations *inspections and as-built certifications for ongoing dredge projects*. He has a vast knowledge of *dredge disposal options and beneficial uses of dredge material*. Recent work has included the Treasure Beach 5-mile canal dredging project and the Sebastian Inlet Sand Trap Dredging Project.



Gary Bazemore, P.S.M. – Mr. Bazemore directs all surveying services conducted within the firm and has over 20 years' experience with both land based and hydrographic surveying. He has served as Project Manager for large scale, multidisciplinary field investigations including topographic, boundary, control, route, utility, and hydrographic surveys. His hydrographic surveying experience includes bathymetric, side scan sonar, sub-bottom sonar, magnetometer, navigation, current measurements, and tide studies. Mr. Bazemore has extensive experience with post processed and real time kinematic, static, and differential GPS surveying, tidal studies, coastal engineering project construction surveys and contract administration services related to beach nourishment and inlet dredging.

Robert H. Semmes, M.S. – Geotechnical Analysis – Mr. Semmes has 25 years of experience with dredging and environmental issues related to port, navigation and marine infrastructure projects. *He has prepared numerous water and sediment quality assessments, sedimentation investigations, and plans and specifications for dredging, marina, and boat landing construction projects.* He has extensive permit preparation and negotiation experience for projects with complex environmental issues, *including confined*

disposal, open water and ocean disposal of dredged material. He is a valuable consultant because he works in all aspects of our projects including planning, siting, permitting, economic development and feasibility, environmental studies, mitigation, development of plans and specifications, construction supervision, permit compliance, modeling, and monitoring.

Steven Peene, Ph.D., Senior Scientist – Dr. Peene has over 26 years of experience in water resources analysis. He has been involved in the national and local evaluation of impacts to surface waters, including development of Total Maximum Daily Loads (TMDL), Environmental Impact Assessments, and Ecosystem Restoration Projects. Dr. Peene will assist with any water quality analyses or modeling requirements needed for the permitting or design of the project. His expertise in these subjects will allow for the avoidance of potential water quality issues.

ADDITIONAL RELEVANT EXPERIENCE

COASTAL ECO GROUP

LAKE WORTH LAGOON 2013 SEAGRASS MAPPING SURVEY

One of the important projects of the Lake Worth Lagoon Management Plan is mapping of seagrass cover and extent every 5 years using aerial photography. These maps serve as an important management tool in evaluating large-scale spatial and temporal trends in seagrass distribution in the lagoon. Seagrasses were mapped in 2001 and 2007 using color aerial photography interpreted with an analytical stereoplotter and limited field verification. However, water clarity conditions in 2012 and 2013 did not allow for aerial photography of sufficient quality for seagrass mapping.



In June 2013, CEG was contracted by PBCERM through Coast and Harbor Engineering Inc. to conduct the 2013 Seagrass Mapping. The four main tasks in the authorized scope of work were: (1) start-up conference and approval of a Final Field Study Plan; (2) 33 days of ground-truthing field work consisting of two phases: Phase 1) field verification of a minimum of 1,000 locations in LWL and ICW areas of interest, followed by: Phase 2) mapping of outer edges of large beds (>15 acres in size) which showed substantial changes in dense seagrass since 2007; (3) revisions to the 2007 seagrass shapefiles in ArcGIS and production of draft and final maps (County approved ArcGIS geodatabase); and (4) production of a Final Report including a narrative and tabular summary of findings by sub-basin reach, and an analysis of change in seagrass cover/extent compared to 2007.

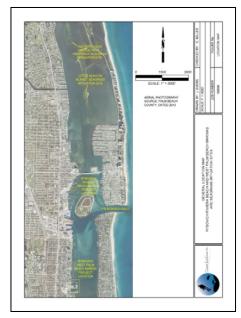
A total of 1,508 sites were sampled during the 2013 LWL Mapping Project: 1,000 sites were located along the perimeter or within the 2007 seagrass beds, and 508 sites were added in the field to document bed expansion or recession from the 2007 mapped bed edges. At each sampling location, a 1 m² quadrat was sampled for species composition and cover. Scientists then searched a 30-m transect line for bed recession or extension at each location and recorded the current bed edge with Differential GPS. Physical habitat data were also recorded including water depth, Secchi depth, temperature, salinity, and sediment type.

The survey data were evaluated by the creation of a project database in Microsoft Access database and comparative maps of seagrass cover/distribution ArcGIS maps to evaluate changes in seagrass areal extent since 2007.

RIBOVICH RIVIERA BEACH MARINE FACILITY

The Rybovich Riviera Beach Marine Facility is a 57-slip commercial marina containing 7.7 acre of uplands adjacent to the Intracoastal Waterway just north of Palm Beach Inlet. The existing dock configuration supports vessels up to 125 feet in length. The West Palm Beach Rybovich Marine Facility is a 59-slip commercial marina containing 11.2 acre of uplands adjacent to the Intracoastal Waterway. In May 2012, Coastal Eco-Group, serving as the environmental consultant to Rybovich, submitted an application for an Environmental Resource Permit for the construction of a vessel lift, access channel, and dock reconfiguration at the Riviera Beach Marine Facility. This original project design was projected to impact 7.88 acres of seagrass habitat.

In coordination with the resource protection and regulatory agencies, the project was redesigned to avoid and minimize impacts to seagrass habitat to the greatest extent practicable while still meeting the objectives for the facility. Rybovich made several operational revisions to significantly reduce the overall dredge footprint and design depth. The current proposed project modifies the two existing marinas, Riviera Beach and West Palm Beach, to work in conjunction with one another to provide

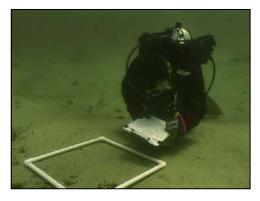


services and repairs to mega yachts. The vessels will check-in at the West Palm Beach Marina where they will be prepared for hauling out of the water. Once ready, the vessel will be towed approximately 3 miles north to the Riviera Beach Marina's facility haul-out slip. Upon completion of work at the Riviera Beach Marina, the vessel will be placed back into the water and returned to West Palm Beach for dockage until departure. The revised project design reduced seagrass impacts from 7.88 acres to 4.46 acres.

CEG was responsible for obtaining state and federal permits for the proposed marine facility project at Riviera Beach and expansion of the Rybovich Marina at West Palm Beach. Services include ERP permit application development; seagrass mapping surveys of the impact and mitigation areas, responding to agency RAIs and agency coordination during permit application review; demonstration of avoidance/minimization of impacts to submerged resources; UMAM mitigation and impact evaluation; and development and agency approval of a seagrass mitigation plan for the cumulative impacts resulting from both projects. Federal agency approval of the combined mitigation plan for both projects was received in September 2014.

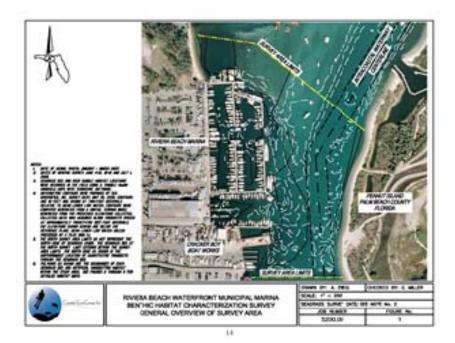
RIVIERA BEACH MUNICIPAL MARINA BENTHIC HABITAT AND SAV MAPPING & CHARACTERIZATION STUDY

CEG scientists conducted a comprehensive benthic habitat mapping and characterization survey in the vicinity of the Riviera Beach Municipal Marina between June 11 and July 1, 2009. The mapping effort involved a detailed submerged aquatic vegetation (SAV) survey to delineate percent cover, density and species composition of seagrass and macroalgal beds, and mapping and characterization of rock rubble communities located within the project area vicinity. Because the study area was known to support Halophila johnsonii, SAV survey protocol followed the recommended sampling at a project site according to the National Marine Fisheries Service (NMFS) Recovery Plan for Halophila johnsonii.



DGPS mapping of the seagrass bed edges and seagrass patches was performed using a Trimble GeoXM DGPS and TerraSync software. SCUBA was required to sample the study area due to water depths and water clarity constraints. Most of the study area could only be sampled during an incoming tide due to the poor water visibility associated with the outgoing tide.

A visual reconnaissance survey was performed prior to the collection of quantitative benthic data. Three marine scientists swum a series of shoreperpendicular and shore-parallel transects to survey for the presence of submerged aquatic vegetation and hardbottom habitat. Due to the patchy nature of Halophila spp., transects were closely space every 5 meters to ensure that no patches were missed due to poor underwater visibility. intercept and point quadrat samples were assessed along the transects to qualitatively describe bottom type and quantitatively assess percent cover of seagrass and species composition. Within the vegetated areas, total percent cover of seagrass (all species combined and for each species separately) was quantitatively assessed approximately every 5 meters within



0.25 m² gridded quadrats. Visual assessment of cover within a 1-meter wide area centered on the transect lines was also performed using the Braun-Blanquet semi-quantitative abundance scale.

The high level of recreational and commercial boat traffic in the vicinity of the Riviera Beach Municipal Marina (RBMM) and Port of Palm Beach created logistical and safety problems during field sampling efforts. Repeated attempts were required to sample some of the areas due to limited access and safety constraints. A survey technician was positioned on the survey vessel at all times to provide navigational support and protect the divers from boat traffic.

Thank you for considering Applied Technology and Management for this solicitation. We look forward to hearing from you. Please do not hesitate to contact me at (561) 659-0041 if you have any questions or would like any further information. My e-mail is: mjenkins@appliedtm.com

AUTHORIZED REPRESENTATIVE
 The foregoing is a statement of facts.

- 30. SIGNATURE OF AUTHORIZED REPRESENTATIVE:
- 31. DATE SIGNED: 12-6-07
- 32. NAME AND TITLE OF SIGNER: Mike Jenkins, Ph.D., P.E.

1. SOLICITATION NUMBER (If any)

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Applied Technology & Ma	nagement, Inc.	3. YEAR ESTABLISHED 1984	4. DUNS NUMBER 14-704-7575			
2b. STREET 2047 Vista Parkway, Suite 201			APPLIED TECHNOLOGY & MANAGEMENT	5. O	WNERSHIP	
2c. CITY West Palm Beach 2d. STATE FL			2e. ZIP 33411	Corporation b. SMALL BUSINESS STATUS		
6a. POINT OF CONTACT NAME AND TITLE Michael Jenkins, Ph.D., P.E., 0	Coastal Team Leader		N/A 7. NAME OF FIRM (If block 2a is a branch office)			
6b. TELEPHONE NUMBER 561-659-0041	6c. E-MAIL ADDRESS MJenkins@app	oliedtm.com		Applied Technolo	gy & Management, Inc.	
	8a. FORMER FIRM NAME(S)			8b. YR. ESTABLISHED	8c. DUNS NUMBER	
N/A				N/A	N/A	
			10 1	DDOEII E OE EIDM'S EYDE	DIENCE AND	

9. EMPLOYEES BY DISCIPLINE					10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS			
a. Function	h Dissistina	c. No. of	Employees	a. Profile	b. Experience	c. Revenue		
Code	b. Discipline	(1) FIRM	(2) BRANCH	Code	b. Experience	Number		
02	Administrative	11	1	C07	Coastal Engineering	5		
08	CADD Technicians	3	1	C15	Construction Management	1		
12	Civil Engineers	5		D08	Dredging Studies and Design	1		
16	Construction Managers	1	1	E09	Environmental Studies (EIA, EIS)	4		
19	Ecologists	1		E10	Env. and Natural Resource Mapping	1		
23	Environmental Engineers	4		E11	Environmental Planning	2		
33	Hydrographic Surveyor	1		H01	Harbors; Jetties; Piers; Ship Terminals	2		
58	Technician/Analyst	2	1	H13	Hydrographic Surveying	1		
62	Water Resources Engineer	2		106	Irrigation and Drainage	1		
				P06	Planning (Site, Installation, and Project)	3		
				R04	Recreation Facilities (Marinas, etc.)	5		
				S04	Sewage Collection, Treatment, Disposal	2		
				S07	Solid Wastes, Landfills	1		
	Coastal Engineers	8	3	S09	Structural Design; Special Structures	1		
	Numerical Modelers	1		S10	Surveying	1		
				S13	Storm Water Handling and Facilities	2		
				W02	Water Resources; Groundwater; Hydrology	4		
				W03	Water Supply, Treatment, Distribution	1		
	Other Employees	6	1					
	Total	45	8					

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (Insert revenue index number shown at right)

a. Federal Work

1
b. Non-Federal Work

7

8

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- 1. Less than \$100,000.
- 2. \$100,000 to less than \$250,000
 - \$250,000 to less than \$500,000 \$500,000 to less than \$1 million
- 4. \$500,000 to less than \$1 million
- 5. \$1 million to less than \$2 million
- 6. \$2 million to less than \$5 million
- 7. \$5 million to less than \$10 million
- 8. \$10 million to less than \$25 million
- 9. \$25 million to less than \$50 million
- 10. \$50 million or greater

12. AU	IHOR	KIZ.	ΕD	KEPH	KESE	NI	Alive

The foregoing is a statement of facts.

a. SIGNATURE	
lt C.l.	

b. DATE

September 1, 2014

c. NAME AND TITLE

c. Total

1. SOLICITATION NUMBER (If any)

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Applied Technology & Manage	3. YEAR ESTABLISHED 1984	4. DUNS NUMBER 14-704-7575					
2b. STREET 305 Sixth Avenue				5. OWNERSHIP a. TYPE			
2c. CITY		2d. STATE	2e. ZIP		Corporation		
Melbourne Beach	FL		32951	b. SMALL BUSINESS STATUS			
6a. POINT OF CONTACT NAME AND TITLE	otal Casinaan				N/A		
Peter C. Peterson, P.E., Senior Coas	stai Engineer				7. NAME OF FIRM (If block 2a is a branch office)		
6b. TELEPHONE NUMBER 321-403-2163	6c. E-MAIL ADDRESS ppeterson@ap	pliedtm.com			Applied Technology	& Management, Inc.	
8a. FO	RMER FIRM NAME(S)				8b. YR. ESTABLISHED	8c. DUNS NUMBER	
N/A					N/A	N/A	

	9. EMPLOYEES BY DISCIP	PLINE			10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS			
a. Function	b. Discipline	c. No. of	Employees	a. Profile	b. Experience	c. Revenue Index		
Code	b. Discipline	(1) FIRM	(2) BRANCH	Code	,	Number		
02	Administrative	11		C07	Coastal Engineering	5		
80	CADD Technicians	3		C15	Construction Management	1		
12	Civil Engineers	5		D08	Dredging Studies and Design	1		
16	Construction Managers	1		E09	Environmental Studies (EIA, EIS)	4		
19	Ecologists	1		E10	Env. and Natural Resource Mapping	1		
23	Environmental Engineers	4		E11	Environmental Planning	2		
33	Hydrographic Surveyor	1		H01	Harbors; Jetties; Piers; Ship Terminals	2		
58	Technician/Analyst	2		H13	Hydrographic Surveying	1		
62	Water Resources Engineer	2		106	Irrigation and Drainage	1		
				P06	Planning (Site, Installation, and Project)	3		
				R04	Recreation Facilities (Marinas, etc.)	5		
				S04	Sewage Collection, Treatment, Disposal	2		
				S07	Solid Wastes, Landfills	1		
				S09	Structural Design; Special Structures	1		
	Coastal Engineers	8	1	S10	Surveying	1		
	Numerical Modelers	1		S13	Storm Water Handling and Facilities	2		
	Marina Specialists			W02	Water Resources; Groundwater; Hydrology	4		
				W03	Water Supply, Treatment, Distribution	1		
	Other Employees	6						
	Total	45	1					
						•		

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work b. Non-Federal Work 8 c. Total

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- 1. Less than \$100,000.
- 2. \$100,000 to less than \$250,000
- \$250,000 to less than \$500,000
- 4. 5.
- \$500,000 to less than \$1 million
- \$1 million to less than \$2 million
- \$2 million to less than \$5 million 6.
- \$5 million to less than \$10 million \$10 million to less than \$25 million
- 8.
- \$25 million to less than \$50 million
- \$50 million or greater

12.	AU.	THOR	IZED	REP	RES	ENT	ATI	۷E

The foregoing is a statement of facts.

b. DATE September 1, 2014

c. NAME AND TITLE

1. SOLICITATION NUMBER (If any)

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Applied Technology & M		ΛП	TAI	3. YEAR ESTABLISHED 1984	4. DUNS NUMBER 14-704-7575	
2b. STREET 5550 NW 111 th Blvd			APPLIED TECHNOL	OGY & MANAGEMENT	5. O	WNERSHIP
2c. CITY Gainesville		2d. STATE FL	2e. ZIP	32653	Corporation b. SMALL BUSINESS STATUS	
6a. POINT OF CONTACT NAME AND TITLE Robert H. Semmes, Vice President				N/A 7. NAME OF FIRM (If block 2a is a branch office)		
6b. TELEPHONE NUMBER 386-418-6400	6c. E-MAIL ADDRESS rsemmes@app	oliedtm.com				
	8a. FORMER FIRM NAME(S)				8b. YR. ESTABLISHED	8c. DUNS NUMBER
N/A					N/A	N/A
	·			10 1	PROFILE OF FIRM'S EXPE	RIENCE AND

	9. EMPLOYEES BY DISCII	PLINE			10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS			
a. Function	h Dissistina	c. No. of	Employees	a. Profile	h Financiana	c. Revenue Index		
Code	b. Discipline	(1) FIRM	(2) BRANCH	Code	b. Experience	Number		
02	Administrative	11	6	C07	Coastal Engineering	5		
08	CADD Technicians	3		C15	Construction Management	1		
12	Civil Engineers	5	1	D08	Dredging Studies and Design	1		
16	Construction Managers	1		E09	Environmental Studies (EIA, EIS)	4		
19	Ecologists	1		E10	Env. and Natural Resource Mapping	1		
23	Environmental Engineers	4		E11	Environmental Planning	2		
33	Hydrographic Surveyor	1		H01	Harbors; Jetties; Piers; Ship Terminals	2		
58	Technician/Analyst	2		H13	Hydrographic Surveying	1		
62	Water Resources Engineer	2	2	106	Irrigation and Drainage	1		
				P06	Planning (Site, Installation, and Project)	3		
				R04	Recreation Facilities (Marinas, etc.)	5		
				S04	Sewage Collection, Treatment, Disposal	2		
				S07	Solid Wastes, Landfills	1		
				S09	Structural Design; Special Structures	1		
	Coastal Engineers	8		S10	Surveying	1		
	Numerical Modelers	1		S13	Storm Water Handling and Facilities	2		
	Marina Specialists			W02	Water Resources; Groundwater; Hydrology	4		
				W03	Water Supply, Treatment, Distribution	1		
	Other Employees	6	3					
	Total	45	12					
11 A	NINITIAL AVEDACE DECECCIONIAL							

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work b. Non-Federal Work 8 c. Total

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

1. Less than \$100,000.

2. \$100,000 to less than \$250,000

\$250,000 to less than \$500,000 4. \$500,000 to less than \$1 million

\$1 million to less than \$2 million

\$2 million to less than \$5 million 6.

\$5 million to less than \$10 million

\$10 million to less than \$25 million

\$25 million to less than \$50 million

\$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

SIGNATURE //	b. DATE		
lt C.	Se	ptember 1,	2014

c. NAME AND TITLE

1. SOLICITATION NUMBER (If any)

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

		·	10	DDOEILE OF EIDMIG EADE	DIENCE AND
N/A				N/A	N/A
	8a. FORMER FIRM NAME(S)			8b. YR. ESTABLISHED	8c. DUNS NUMBER
6b. TELEPHONE NUMBER 850-765-8150	6c. E-MAIL ADDRESS SPeene@appl	iedtm.com		Applied Technology &	Management, Inc.
6a. POINT OF CONTACT NAME AND TITLE Steve Peene, Ph.D.				N/A 7. NAME OF FIRM (If block 2a is a	
Tallahassee		FL	32308	b. SMALL BUSINESS STATUS	
2c. CITY		2d. STATE	2e. ZIP	Corporation	
1435 East Piedmont Drive, Sui	ite 210		1 TT 11T	a. TYPE	
2b. STREET		APPLIED TECHNOLOGY & MANAGEMENT	5.0	WNERSHIP	
2a. FIRM (OR BRANCH OFFICE) NAME Applied Technology & Ma		A7TT\ /[3. YEAR ESTABLISHED 1984	4. DUNS NUMBER 14-704-7575	

9. EMPLOYEES BY DISCIPLINE					10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS	
a. Function	b. Discipline	c. No. of Employees		a. Profile	b. Experience	c. Revenue
Code	b. Discipline	(1) FIRM	(2) BRANCH	Code	b. Experience	Number
02	Administrative	11		C07	Coastal Engineering	5
08	CADD Technicians	3		C15	Construction Management	1
12	Civil Engineers	5		D08	Dredging Studies and Design	1
16	Construction Managers	1		E09	Environmental Studies (EIA, EIS)	4
19	Ecologists	1		E10	Env. and Natural Resource Mapping	1
23	Environmental Engineers	4		E11	Environmental Planning	2
33	Hydrographic Surveyor	1		H01	Harbors; Jetties; Piers; Ship Terminals	2
58	Technician/Analyst	2		H13	Hydrographic Surveying	1
62	Water Resources Engineer	2		106	Irrigation and Drainage	1
				P06	Planning (Site, Installation, and Project)	3
				R04	Recreation Facilities (Marinas, etc.)	5
				S04	Sewage Collection, Treatment, Disposal	2
	Coastal Engineers	8		S07	Solid Wastes, Landfills	1
	Numerical Modelers	1	1	S09	Structural Design; Special Structures	1
				S10	Surveying	1
				S13	Storm Water Handling and Facilities	2
				W02	Water Resources; Groundwater; Hydrology	4
				W03	Water Supply, Treatment, Distribution	1
	Other Employees	6				
	Total	45	1			
11 Δ	NNI IAI AVERAGE PROFESSIONAL		•			•

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS
(Insert revenue index number shown at right)

a. Federal Work 1
b. Non-Federal Work 7
c. Total 8

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- . Less than \$100,000.
- 2. \$100,000 to less than \$250,000
 - . \$250,000 to less than \$500,000
- 4. \$500,000 to less than \$1 million
- 5. \$1 million to less than \$2 million
- 6. \$2 million to less than \$5 million
- 7. \$5 million to less than \$10 million
- 8. \$10 million to less than \$25 million
- 9. \$25 million to less than \$50 million
- 10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

b. DATE
September 1, 2014

c. NAME AND TITLE

1. SOLICITATION NUMBER (If any)

PART II - GENERAL QUALIFICATIONS

(If a firm has branch offices, complete for each specific branch office seeking work.)

2a. FIRM (OR BRANCH OFFICE) NAME Applied Technology & Mana	3. YEAR ESTABLISHED 1984	4. DUNS NUMBER 14-704-7575			
2b. STREET 1485 N. Atlantic Avenue, Suite 11	5. OWNERSHIP a. TYPE				
2c. CITY Cocoa Beach 2d. STATE FL			2e. ZIP 32931	Corporation b. SMALL BUSINESS STATUS	
6a. POINT OF CONTACT NAME AND TITLE Gary Bazemore, P.S.M., Vice Pre	N/A 7. NAME OF FIRM (If block 2a is a branch office)				
6b. TELEPHONE NUMBER 321-403-2129	Applied Technolo	gy & Management, Inc.			
8a.	8b. YR. ESTABLISHED	8c. DUNS NUMBER			
N/A				N/A	N/A

	9. EMPLOYEES BY DISCII	PLINE		10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS			
a. Function Code	h Discipline		Employees (2) BRANCH	a. Profile Code	b. Experience	c. Revenue Index	
02	Administrative	(1) FIRM	(2) BRAINCH	C07	Coastal Engineering	Number 5	
08	CADD Technicians	3		C15	Construction Management	1	
12	Civil Engineers	5		D08	Dredging Studies and Design	1	
16	Construction Managers	1		E09	Environmental Studies (EIA, EIS)	4	
19	Ecologists	1		E10	Env. and Natural Resource Mapping	1	
23	Environmental Engineers	4		E11	Environmental Planning	2	
33	Hydrographic Surveyor	1		H01	Harbors; Jetties; Piers; Ship Terminals	2	
58	Technician/Analyst	2	1	H13	Hydrographic Surveying	1	
62	Water Resources Engineer	2		106	Irrigation and Drainage	1	
				P06	Planning (Site, Installation, and Project)	3	
				R04	Recreation Facilities (Marinas, etc.)	5	
				S04	Sewage Collection, Treatment, Disposal	2	
				S07	Solid Wastes, Landfills	1	
				S09	Structural Design; Special Structures	1	
	Coastal Engineers	8	1	S10	Surveying	1	
	Numerical Modelers	1		S13	Storm Water Handling and Facilities	2	
				W02	Water Resources; Groundwater; Hydrology	4	
				W03	Water Supply, Treatment, Distribution	1	
	Oth						
	Other Employees	6	2				
	Total	45	2				

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work b. Non-Federal Work 8 c. Total

PROFESSIONAL SERVICES REVENUE INDEX NUMBER

- 1. Less than \$100,000.
- 2. \$100,000 to less than \$250,000
- \$250,000 to less than \$500,000
- 4. \$500,000 to less than \$1 million
- 5. \$1 million to less than \$2 million
- \$2 million to less than \$5 million 6.
- \$5 million to less than \$10 million
- \$10 million to less than \$25 million
- \$25 million to less than \$50 million
- \$50 million or greater

|--|

The foregoing is a statement of facts.

b. DATE September 1, 2014

c. NAME AND TITLE

ARCHITECT – ENGINEER QUALIFICATIONS 1. SOLICITATION NUMBER (IF any) N/A							K (If any)		
PART II – GENERAL QUALIFICATIONS									
(If a firm has branch offices, complete for each specific branch office seeking work.)									
	R BRANCH O	FFICE) NAME			'		3. YEAR ESTABLISHED	4. DUNS NUMBER	
Miller Le	egg						1965	038700035	
2b. STREET							5. OWNE	RSHIP	
5747 N	Andrews V	Vay					a. TYPE		
2c. CITY				2d. STATE	2e. ZIP COD		- Corporate		
Ft. Laud	erdale			FL	33309-2	2364	b. SMALL BUSINESS STATU	JS	
6a. POINT OF CONTACT NAME AND TITLE									
	Dylan Larson, PWS, CEP, CLI, Principal 7. NAME OF FIRM (If block 2a is a branch office)								
							,		
6b. TELEPHO	6b. TELEPHONE NUMBER 6c. E-MAIL ADDRESS								
(561) 689-1138 dlarson@millerlegg.com									
		8a. FORMER FIRM	A NIAME(S) /If	anyl			8b. YR. ESTABLISHED	8c. DUNS NUMBER	
		oa. I ORWER I IRW	TINAIVIL(3) (II	arry)			OD. TK. ESTABLISHED	oc. DONO NOWIDER	
				-		10 DDC	DEILE OF EIDM'S EVDEDIE	NCE AND	
9. EMPLOYEES BY DISCIPLINE 10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS									
a Function			a Na af	Employees	a. Profile			c. Revenue Index	
a. FunctionCode		b. Discipline	(1) FIRM	Employees (2) BRANCH	Code		b. Experience	Number	
00	Administra	atio co	1.1	11	C02	Comoto	eries (Planning & Relocation)	(see below)	
02 07	Biologist	uive	14 5	11 5	C02		enes (Planning & Relocation) es; Chapels	5 2	
08	CADD Ted	chnician	3	2	C10		ercial Building; (low rise);	2	
12	Civil Engir		8	3	C14		vation and Resource	4	
14		Programmer	1	1	E01	Ecologi	cal & Archeological	4	
16		on Manager	1	1	E02		onal Facilities; Classrooms	4	
19	Ecologists		1	1	H07		ys; Streets; Airfield Paving;	2	
21	Electrical I	-	0	0	H09		lls & Medical Facilities	3	
23		ental Engineer	3	2	H11	Housing (Residential, Multifamily,		6	
50 24		ental Risk Assessor	0	0	106 L01	Irrigation; Drainage Laboratories; Medical Research		2 2	
29	GIS Speci	ental Scientist	0	0	L01		ape Architecture	5	
39b	Irrigation [0	0	P04		es (Cross-countryLiquid &	2	
38	Land Surv	-	3	1	P05		g (Community; Regional;	3	
38a	Survey Cr	ew Members	9	2	P06	Plannin	g (Site, Installation and	3	
39	Landscape	e Architects	6	5	R04		tional Facilities (Parks;	4	
39a		e Designers	5	4	S04		e Collection, Treatment &	5	
47		Urban/Regional	1	0	S13		rater Handling & Facilities	5	
51 60		cupational Health ation Engineers	0	0	S10 T03		ng; Platting; Mapping; Flood & Transportation Engineering		
00	Other Emp		1	0	U02		Renewals; Community	4	
				40	W03		Supply; Treatment and	4	
11. ANNUAL AVERAGE PROFESSIONAL PROFESSIONAL SERVICES REVENUE INDEX NUMBER SERVICES REVENUE OF FIRM									
FOR LAST 3 YEARS 1. Less than \$100,000 6. \$2 million to less than \$5 million									
(Insert revenue index number shown at right) 2. \$100,000 to less than									
a. Federal Work 4 3. \$250,000 to less the									
b. Non-Federal Work 6 4. \$500,000 to less that c. Total Work 6 5. \$1 million to less that							10. \$50 million to less than	φου million	
c. Total Work		V					+		
	12. AUTHORIZED REPRESENTATIVE The foregoing is a statement of facts.								
a. SIGNATU	JRE						b. DATE		
DR	9/24/2014								
c. NAME AND TITLE									

Dylan Larson, PWS, CEP, CLI, Principal

1. SOLICITATION NUMBER (If any)

	AITOITI	TECT - ENGINE							
		(If a firm has branch		GENERAL Implete for a				na work.)	
2a. FIRM (OR Coastal		FFICE) NAME	J		oueepoc		3. YEAR ESTABL 2005	LISHED 4. DUI	NS NUMBER 9425080
2b. STREET								5. OWNERSHIP	
	665 SE 10 th St Suite 104						a. TYPE S-Corporati	ion	
2c. CITY Deerfiel	2c. CITY 2d. STATE Deerfield Beach FL					DE I	b. SMALL BUSIN		
6a POINT OF	CONTACT	NAME AND TITLE						ned, small busin	ess
		resident, Principal Scie	entist		7. NAME OF FIRM (If block 2a is a branch office)				
6b. TELEPHO 954-591	_	₹		L ADDRESS er@coastale	co-group.c	om			
		8a. FORMER FIRM	NAME(S) (If a	any)			8b. YR. ESTABLIS	HED 8c. DUN	IS NUMBER
	9. E	EMPLOYEES BY DISCIPI	LINE				OFILE OF FIRM'S VERAGE REVENI		
a. Function Code		b. Discipline	c. No. of (1) FIRM	Employees (2) BRANCH	a. Profile Code		b. Experienc	ee	c. Revenue Index Number (see below)
07,19	Biologist,	Ecologist	6		C14	Conserva	tion & Resource M	/lanagement	1
58	Survey Te	echnician	1		E01	·	al Investigations		2
08	Graphic D	Designer/CADD Tech	1		E09		ental Impact Studi		2
					E10		ental & Natural R	esource Mapping	2
					E11		ental Planning		1
					G04	GIS Syste Collection	em Services: Anal n	lysis & Data	2
-									
-									
		Tatal							
		Total]		İ			1
11. ANNUAL A	REVENUE	ROFESSIONAL SERVICES S OF FIRM F 3 YEARS	1 000 thou		PROFESSION	IAL SERVICE	ES REVENUE INDEX		
(Insert revenue index number shown at right) 1. Less that				1 \$100,000) to less than \$2	50,000		6. \$2 million to less than \$5 million7. \$5 million to less than \$10 million		
a. Federal Work 0			· '	to less than \$50	•		8. \$10 million to less than \$25 million		
b. Non-Federa	al Work	4		to less than \$1				to less than \$50 millio	on
c. Total Work		4	5. \$1 million	to less than \$2	million		10. \$50 million	or greater	
				JTHORIZED Foregoing is a					
a. SIGNATU	RE							B. DATE	
Che	Cheryl & miller								

c. NAME AND TITLE Cheryl L. Miller, President

1. SOLICITATION NUMBER (If any) ARCHITECT-ENGINEER QUALIFICATIONS PART II - GENERAL QUALIFICATIONS (If a firm has branch offices, complete for each specific branch office seeking work.) 2a. FIRM (OR BRANCH OFFICE) NAME 3. YEAR ESTABLISHED 4. DUNS NUMBER 1989 798834891 Scientific Environmental Applications, Inc. (S.E.A.) 2b. STREET 5. OWNERSHIP 6830 Sheridan Rd. a. TYPE Corporation 2c. CITY 2e. ZIP CODE 2d. STATE Melbourne Village FL 32904 b. SMALL BUSINESS STATUS Minority Woman Business 6a. POINT OF CONTACT NAME AND TITLE 7. NAME OF FIRM (If block 2a is a branch office) Kim Zarillo - President 6b. TELEPHONE NUMBER 6c. E-MAIL ADDRESS (321) 544-2680 SEAPP1@aol.com 8a. FORMER FIRM NAME(S) (If any) 8b. YR. ESTABLISHED 8c. DUNS NUMBER NA 10. PROFILE OF FIRM'S EXPERIENCE AND 9. EMPLOYEES BY DISCIPLINE ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS c. Revenue Index c. No. of Employees a. Profile a. Function b. Experience Number b. Discipline Code (1) FIRM (2) BRANCH (see below) S05 Soils & Geologic Studies Foundations 1 30 Geologist 1 W02 Water Resources 1 **Ecological & Archeological Investigations** 07 **Biologist** 1 E01 58 Technicians 1 S03 Seismic Designs & Studies C14 Conservation & Resource Mamt E09 **Environmental Studies** Other Employees Total 3 PROFESSIONAL SERVICES REVENUE INDEX NUMBER

11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS

(Insert revenue index number shown at right)

a. Federal Work	1
b. Non-Federal Work	1
c. Total Work	2

- Less than \$100,000
- \$100,00 to less than \$250,000 2.
- 3. \$250,000 to less than \$500,000
- 4. \$500,000 to less than \$1 million
- \$1 million to less than \$2 million
- \$2 million to less than \$5 million
- \$5 million to less than \$10 million 7.
- \$10 million to less than \$25 million
- 9 \$25 million to less than \$50 million
- 10. \$50 million or greater

12. AUTHORIZED REPRESENTATIVE

The foregoing is a statement of facts.

b. DATE 9-25-14

c. NAME AND TITLE Kim Zarillo. President

a. SIGNATURE

AUTHORIZED FOR LOCAL REPRODUCTION

Proposed Project Manager, Joseph Chaison, P.E., is a Registered Florida Professional Engineer with 13 years of experience in the field of coastal engineering. He has designed and overseen the design, mitigation and construction of; navigation maintenance and new-work dredging, dike, spillway, beach nourishment, coastal structure, and seawall projects. He has participated in all phases of coastal engineering projects, from feasibility studies, numerical modeling, environmental impact statements, local, state, and federal permitting, grant funding application, design, plan and specification development, bid form preparation, procurement, award, construction inspection, survey, acceptance, payment review, and monitoring.

Specific dredging experience includes involvement with the design, and/or construction phase services for:

- ✓ Jupiter Inlet
- ✓ Dania Cutoff Canal
- ✓ South Locust Point Access Deepening
- ✓ Port Everglades Deepening Study
- ✓ Town of Palm Beach Waterways Dredging
- ✓ Hillsboro Canal Maintenance Dredging
- ✓ Baltimore Harbor 50-foot Deepening of Seagirt-Dundalk Access Loop;
- ✓ and numerous beach nourishment projects.

Dredged material management experience includes overseeing the placement and dewatering of millions of cubic yards of maintenance and new-work dredging materials for the Port of Baltimore as well as smaller scale dredged material management areas (DMMAs), such as the temporary site at the southwest corner of Port Everglades used for the Dania Cutoff Canal deepening project.

Mr. Chaison is familiar with mechanical and hydraulic dredging techniques as well as the dewatering and material management techniques required for both methodologies. Additionally, he is familiar with the in water resources common in south Florida as well as the minimization, avoidance, BMPs, and mitigation techniques related to dredge related environmental impacts.

Mr. Chaison is based in ATM's West Palm Beach office, the lead office of ATM's Coastal Engineering Team. Contact information is:

Joseph Chaison, P.E. Applied Technology & Management 2047 Vista Parkway, Suite 201 West Palm Beach, FL 33411

Phone: 561-659-0041 / Fax: 561-659-3733

jchaison@appliedtm.com



UNDERSTANDING OF PROJECT

This project involves the permitting and development of plans and specifications for approximately 17.6 acres of dredging and associated mitigation for the Bahia Mar and Las Olas North and South Marinas. Additionally, this project will be tightly coordinated with the Florida Inland Navigation District (FIND) Intracoastal Waterway Deepening project proposed to occur adjacent to the City's marinas.

The most important elements of the project will be the evaluation and quantification of the materials to be dredged; assessment and mitigation planning for any unavoidable resource impacts; development and coordination of a materials management plan; and, establishing and accomplishing a schedule which will allow for synchronization with the FIND Intracoastal Waterway Deepening Project. The local, state and federal permitting of the above listed elements will require solid planning, intense coordination, unassailable data, and a clear vision for the project.

PROJECT APPROACH

ATM staff and team members dedicated to this project have extensive experience with similar projects including dredging and dredged materials management as well as resource impact minimization, avoidance and mitigation. The ATM team has been specifically selected to incorporate the exact capabilities needed for the successful delivery of the City of Fort Lauderdale Intracoastal Waterway – Las Olas Marina Dredging Project.

PHASE 1 – Obtain Conceptual Mitigation and Dredging Permits

I. Review Existing Documentation and Obtain Required Data

The initial effort will necessarily be a review of the existing documentation and reports, specifically the January 2013 Conceptual Mitigation Plan and the associated informal comments provided to the City by the permitting agencies. A solid understanding of the needs of the regulatory agencies will guide the subsequent data collection efforts and should streamline the permitting. To this end, a meeting may be organized with the regulatory agencies to facilitate the review process.

Geotechnical soil investigations will be conducted to determine and quantify the extents, volumes and soil types present in the proposed dredging template. ATM will perform bathymetric surveys of the project area and adjacent areas. The bathymetric surveys must conform to accepted industry and regulatory standards and be conducted under the responsible charge of a registered professional surveyor. Field investigation services including surveying will be directed by ATM surveyor, Gary Bazemore, PSM, utilizing ATM's survey vessel. This survey, in conjunction with the geotechnical investigation will allow for precise calculation of dredging costs. It will also guide the dredged materials management plan to be developed in Phase II. Soil testing, both physical and chemical, will be performed in conjunction with the geotechnical investigation.

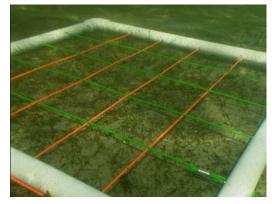
Existing seagrass and benthic resource surveys will be reviewed and supplemented as necessary. It is expected that a seagrass and benthic resource survey will be required to assess opportunities for minimization and avoidance, as well as to quantify and plan for the mitigation of unavoidable resource impacts. *Coastal Eco Group (CEG) and specifically, Ms. Cheryl Miller,* have extensive experience in South Florida and Broward County performing seagrass and benthic resource surveys. They understand the importance of providing cost-



effective and ecologically appropriate mitigation to compensate for impacts to natural communities resulting from coastal development projects and designing monitoring programs to evaluate mitigation success. Ms.

Miller served as a member of the FDEP working group focusing on the development of appropriate indicators for the application of the Uniform Mitigation Assessment Method (UMAM) to seagrass communities in Florida. As such, Ms. Miller understands exactly what will be required to allow for a timely review of an acceptable Mitigation Plan.

If water testing and flushing analyses are required, Steven Peene, Ph.D., will lead the efforts. Given the location of the project adjacent to the Intracoastal Waterway, the postconstruction, dredged marina basins are expected to demonstrate suitable flushing.



II. Prepare Permit Applications – Inter-Governmental Coordination

Once the necessary data have been collected, and the required plans have been developed, the Environmental Resource Permit process will be initiated. This may follow additional pre-application meetings, as described above. Approval from the U.S. Army Corps of Engineers (USACE), Florida Department of Environmental Protection (FDEP), and Broward County Environmental Protection and Growth Management Department (BCEPGMD) will be required for project construction. Additionally, the USACE will coordinate with the National Marine Fisheries Service (NMFS), and the FDEP will coordinate with the Florida Fish and Wildlife Conservation Commission (FWCC). The review and approval of these permit applications will be critical path items for the project and will require intense preparation and coordination.

Each agency may generate a Request for Additional Information (RAI). Effort will be made to anticipate and minimize the number and magnitude of items included in the RAIs. Once received, prompt communication and response will be important to a timely issuance of the permits.

FIND is preparing to perform a deepening project along the Intracoastal Waterway adjacent to the City's project. It is assumed that the City wants to investigate the opportunity to synchronize the two projects for the potential cost and placement benefits. It can be anticipated that FIND will perform their deepening project with mechanical, rather than hydraulic dredging techniques and will use the existing temporary Dredged Material Management Area located along the southwest corner



of Port Everglades. This site may also be an important part of the City's Dredged Materials Management Plan and should be investigated and coordinated with FIND. As the USACE's local sponsor for maintenance of the Intracoastal Waterway, FIND is vested in supporting projects similar to the City of Fort Lauderdale Intracoastal Waterway – Las Olas Marina Dredging Project.



FIND will also represent a potential grant funding partner. ATM will assist City staff with the preparation of grant application requests and prepare support material as needed.

In addition to regulatory permit approvals, Phase I will also involve obtaining any and all legal approvals and/or easements required for the dredging and mitigation of the project area.

Phase II - Provide 100% Construction Plans & Specifications for 100% Construction Bid Documents

The permitted dredge template and conceptual mitigation plan will be developed into contract-level Construction Plans and Specifications. This will be phased as 30%, 60% and 100% submittals to the City for review and comment. Cost estimates and schedules will also be provided to the City during the development of the Construction Plans and Specifications.

Phase II will also include the continued grant assistance and finalization of the Mitigation Plan. The approved Mitigation Plan will including monitoring, management, adaptive management plan, and financial assurances for the selected mitigation, as needed. Construction of mitigation elements may be included in the Dredging Contract, or the City may choose a separate procurement method for the construction and monitoring of the approved mitigation.

ATM will provide the City with Technical Specifications for incorporation with the City's standard front-end contract documentation. The Construction Specifications will include and reference all permits, permit specific conditions, and will note all environmental protective measures to be employed by the contractor, including the approved Turbidity Control Plan which will describe turbidity control measures to be employed at the dredge and placement site. Dredge method may be specified, if materials, distances, or spoil site indicate that a particular dredging technique is economically or environmentally advantageous to the City. The finalized Spoil Management Plan will be included in the Contract Documents. This document will specify the location and protocol for dewatering and material handling including any required certifications and will have been coordinated with the FIND.

Following incorporation of the Construction Plans and Specifications and Permits with the City's standard contract documents, bid contract documents will be prepared. A mandatory or non-mandatory pre-bid meeting may be scheduled by the City either at City offices or on-site.

ATM will assist the City with the Contract bidding as necessary. This may include answering bidder questions and the preparation of addenda. ATM will also assist the City with reviewing submitted bids, confirming bidders' stated capabilities and references, if needed.



Project: PALM BEA	Project: PALM BEACH COUNTY COASTAL ENGINEERING SERVICES					
Project Owner	Palm Beach County, FL					
Project Contact	Leann Welch, 2300 N. Jo	g Road, 4 th Floor, West Palm Beach, FL 33411				
Telephone	561-233-2434 Fax : 561-233-2414					
Services Performed	ATM has supported various coastal engineering initiatives for Palm Beach County for over 19 years. Projects include beach nourishment, engineering, environmental and permitting tasks. ATM has supported two beach nourishment projects, one major habitat restoration project (Snook Islands), and the comprehensive seagrass mapping of the Lake Worth Lagoon. For the South Lake Worth Inlet Seagrass Monitoring and Maintenance Dredging project, ATM has provided seagrass mapping and monitoring services in support of regular inlet maintenance and channel dredging. ATM supported the design and permitting of the maintenance dredging, which includes an expansion of the existing sand trap capacity.					
Start Date : 1995 – co	urrent – work is under	Completion Date: ongoing services				
continuing services co	ontracts.					
Estimated Costs: N/A	A	Actual Costs: On budget				

Project: ST. AUGU	Project: ST. AUGUSTINE MUNICIPAL MARINA DREDGING					
Project Owner	City of St. Augustine, FL					
Project Contact	Jim Piggott, General Service	es Director, P.O. Box 210, St. Augustine, FL 32085-210				
	jpiggott@citystaug.com					
Telephone	hone 904-825-1010 Fax: 904-825-1051					
Services Performed		services for the Environmental Resource Permitting water and marina expansion of 50 additional boat slips.				
	from the marina basin and	redging of 12,000 cubic yards of accumulated material transport to an offsite disposal facility. ATM secured and the breakwater in less than 6 months' time in early				
	ATM provided construction documents, bid support & construction oversight. The dredging was completed in 2012, & the dock expansion was completed in early 2013. Permit modifications for the dredging included the use of Lighthouse Boat Ramp as an alternative offload area site for the dredged material to expedite the dredging.					
Start Date: February	2009	Completion Date: Spring 2013				
Estimated Costs:		Actual Costs:				



Project: CITY OF BO	Project: CITY OF BOCA RATON – HILLSBORO CANAL MAINTENANCE DREDGING					
Project Owner	City of Boca Raton					
Project Contact	Jennifer Bistyga, Bch Mgmt. Coordinator, 2500 NW 1 st Ave., Boca Raton, FL 33431 Jbistyga@ci.boca-raton.fl.us					
Telephone	561-416-3397	Fax : 561-416-3343				
Services Performed	ATM designed this dredging for the Hillsboro Canal in columnth a FIND grant programmer project Involved the collaboration hydrographic survey data, and benthic survey, physical and chemical dredge volume computed dredged material man planning. This project intense community statements outreach to private, community	njunction ram. The ection of seagrass sediment analysis, tion, and nagement required				
Start Date: February	2014	Completion Date: ongoing				
Estimated Costs: \$98	3,640	Actual Costs: N/A – project is ongoing				

Project: TOWN OF	Project: TOWN OF PALM BEACH DREDGING					
Project Owner	Town of Palm Beach	Town of Palm Beach				
Project Contact	Rob Weber, Coastal Coordi	nator, 951 Old Okeechobee Rd., West Palm Beach, FL				
	33401, rweber@townofpal	mbeach.com				
Telephone	561-838-5440	Fax : 561-835-4691				
Services Performed	Designed dredging project east of Intracoastal Waterway for access channels. Involved seagrass and benthic resource mapping and mitigation planning, sediment sampling; physical and chemical analysis, community stakeholder outreach, and dredged material management planning.					
	The project involves an inn					
	material management p	· · · · · ·				
	=	the project to bring a relict dredge-hole back into the				
	-	in anoxic location from within the Intracoastal and				
1		ural recruitment of seagrass.				
Start Date: March 20	J13	Completion Date: ongoing				
Estimated Costs: \$15	9,493	Actual Costs: ongoing				



Project: PALM	I COVE MARIINA, JACKSONV	ILLE, FL		
Project Owner	Palm Cove Marina			
Project Contact	Skip Canfield, General Manager 14603 Beach Boulevard, Jacksonville, FL 32250 scanfield@palmcovemarina.com			
Telephone	904-223-4757	Fax: 904-223-6601		
Services Performed	The entrance channel to Palm Cove Marina on the Atlantic Intracoastal Waterway is a natural channel on Sovereign Submerged Lands that requires periodic maintenance dredging to maintain adequate depth. ATM was hired by Palm Cove Marina to develop a long-term strategy that would allow them to dredg the channel on an as-needed. To accomplish this task, AT conducted testing of the accemption from permitting FDEP along with a letter of from the USACE. This solut to be able to dredge when	e		
Start Date: August 2	012	Completion Date: March 2013		
Estimated Costs: N/A the marina using the	A – dredging was done by ir own equipment	Actual Costs: N/A		

Project: SEBASTIAN INLET TAX DISTRICT DREDGING								
Project Owner	Sebastian Inlet District	Sebastian Inlet District						
Project Contact	Martin Smithson, Administ 114 Sixth Avenue, Indialant msmithson@sitd.us							
Telephone	321-724-5175	Fax: 321-951-8182						
Services Performed	engineering services in sup has included support for permitting and bidding of t in 2014. A total of 300,000 beaches. Maintenance dredging eff confined placement of non-Material Management Armaterial from the DMMA fachannel to promote boats consolidation of both States.	astian Inlet Taxing District with comprehensive coastal port of inlet and navigational maintenance efforts. This two sand trap maintenance projects and the design the expansion of the existing sand trap which was done to cubic yards of sand have been bypassed to downdrift forts have included both direct beach placement and abeach compatible material within the District's Dredge are (DMMA). ATM has also supported excavation of acility as well as a re-alignment of the existing navigation er safety. ATM recently supported the renewal and a and Federal permits resulting in a single, uniform 15 trap and navigation channel maintenance.						
Start Date: 2009		Completion Date: July 2014						
Estimated Costs:		Actual Costs: total construction costs for all phases was \$6.1 million						

ATM is *not* a Minority Business Enterprise.

Subconsultants, Coastal Eco Group (CEG) and Scientific Environmental Applications, Inc. (SEA) are both certified by the State of Florida as Women-Owned Businesses.





	Client	#: 12	2348				ISLAN	NGLOBA _		
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	DUCER				CONTA NAME:	CT				
Ma	rsh & McLennan Agency LLC				PHONE	- Evti:		FAX (A/C, No):		
521	Fifth Avenue				PHONE (A/C, N E-MAIL ADDRE	99:		14-11-12		
Ne	w York, NY 10175					RA: Lloyd's		FORDING COVERAGE		NAIC#
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	X BI/PD Ded:25000							PERSONAL & ADV INJURY		0.000
	Craft Ded: \$5.000							GENERAL AGGREGATE		uded
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ь				TUUUNFF3607		U112312U14	urizaizuta	(Ea accident) BODILY INJURY (Per person)	\$ 1,00	0,000
	ALL OWNED SCHEDULED								\$	
	AUTOS AUTOS NON-OWNED							BODILY INJURY (Per accident) PROPERTY DAMAGE		
	X HIRED AUTOS X AUTOS							(Per accident)	\$	
		-	-						\$	
A	UMBRELLA LIAB X OCCUR			B0621M4KOR031401	В	06/16/2014	06/16/2015	EACH OCCURRENCE	\$4,00	
	X EXCESS LIAB CLAIMS-MADE	1						AGGREGATE	\$4,00	0,000
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APPLIED TECHNOLOGY & MANAGEMENT

ATM is pleased to include the services of Coastal Eco-Group, Inc. (CEG) and Scientific Environmental Applications, Inc. (SEA) as part of its proposed project team. ATM has maintained a proactive relationship with CEG & SEA and regularly consults with both firms on coastal projects in South Florida. Both firms are Woman-Owned Minority firms registered as such with the state of Florida. CEG and SEA were selected to be part of our team as both firms provide specific, focused and cost effective capabilities that further enhance the capabilities of the ATM team. We have also included Miller Legg on the project team. Miller Legg is well known to the City and has provided a variety of environmental and engineering services to the City under its ongoing continuing services contract.

COASTAL ECO-GROUP, INC. (CEG) — ECOLOGICAL & ENVIRONMENTAL ASSISTANCE



Coastal Eco-Group is a woman-owned environmental consulting firm based in Deerfield Beach, FL, specializing in benthic habitat mapping and surveys, environmental impact assessment, environmental permitting, and hardbottom, seagrass and mangrove mapping and characterization surveys throughout Florida and the Caribbean. Coastal Eco-Group was established in 2005, and represents over 38 years of professional experience in NEPA assessments and document preparation; project management; environmental planning and permitting; and marine ecological surveys, including submerged aquatic vegetation mapping and characterization, benthic invertebrate monitoring, impact analysis and hardbottom and seagrass mitigation design.

Coastal Eco-Group (CEG) scientists are proficient in seagrass mapping and monitoring techniques used to provide information on seagrass and macroalgal areal cover, density, species composition, condition, and spatial and temporal variability of seagrass habitats. Assessments of areal cover, density and condition are carried out using a combination of aerial mapping, aerial photographic interpretation techniques and *in situ* verification. *In situ* assessment involves point quadrat samples using a gridded quadrat for the evaluation of percent cover and short shoot counts to quantitatively assess seagrass density and species composition. Our scientists are experienced in rapid visual assessment protocols for visual estimation of percent cover such as line-intercept transect sampling and the semi-quantitative Braun-Blanquet abundance scale, as well as the evaluation of seagrass population dynamics from the analysis of the age-frequency distribution of short shoots using leaf scar counting and leaf production rates.

CEG scientists have mapped seagrass and mangrove habitats, ground-truthed aerial photography, and field verified seagrass transplantation success for numerous projects within Escambia, Monroe, Collier, Pinellas, Broward, Palm Beach, St. Lucie and Indian River Counties. Representative seagrass mapping and monitoring projects include 2013 Lake Worth Lagoon Seagrass Mapping Project (2013-2014); Lake Worth Lagoon Annual SAV Monitoring, Palm Beach County (2011-2014); Quietwater Beach Restoration Project, Pensacola Beach, Escambia County (2011); Rybovich Riviera Beach Marine Facility Project, Palm Beach County (2010-14); Little Munyon Island Seagrass Mitigation Project, Palm Beach County (2011); Long Key State Park, Monroe County (2009, 2013), Riviera Beach Municipal Marina, Palm Beach County (2009), Nova Southeastern University Boat Basin, Broward County (2008, 2013, 2014), and St. Petersburg/Clearwater International Airport, Pinellas County (2007).

CEG's president and principal scientist, Ms. Cheryl Miller, has over 18 years of professional experience in environmental planning and permitting, including intimate working knowledge and experience with the regulatory environment in Florida. She served as the seagrass reviewer for the FDEP, Bureau of Beaches and Coastal Systems from 2004 through 2009, providing ecological expertise and environmental permitting



support for projects involving impacts to seagrass, nearshore hardbottom and reef habitats and recommendations for development and implementation of seagrass monitoring and mitigation programs. During her tenure as an Environmental Specialist with FDEP, BBCS, in Tallahassee, Ms. Miller served as the FDEP representative for the *Halophila johnsonii* Implementation/Recovery Team.

SCIENTIFIC ENVIRONMENTAL APPLICATIONS, INC. (SEA) – GEOTECHNICAL & HYDROGEOLOGICAL SERVICES

SEA will provide geotechnical support services for any geotechnical investigations. SEA has considerable experience in nearshore geotechnical investigations and sand search surveys for beach nourishment. SEA provides applied research and consulting services for physical, ecological and sedimentologic processes in freshwater and marine environments. Over the past two decades SEA scientists and researchers have completed more than 40 geologic and environmental projects in the U.S. and abroad. SEA has also conducted sedimentologic, geophysical and environmental investigations of potential sand borrow sites along many areas of the Florida Coast, the Gulf Coast of the U.S. and the U.S. Eastern Seaboard. They have conducted projects using three dimensional modeling for estuarine circulation, numerical modeling of sediment transport, and morphological dynamics. SEA is a licensed Florida Geology Business and a state-certified minority business enterprise (MBE).

Gary Zarillo, Ph.D., P.G. – Geologist/Oceanographer, Principal Scientist – Dr. Zarillo has more than 30 years of experience in coastal processes, marine geology and physical oceanography. During the past 23 years he has applied numerical models in the prediction of hydrodynamics, sediment transport, and water quality in shallow marine, estuarine and lacustrine environments. Dr. Zarillo also has extensive experience in the application of statistics and time-series analysis to environmental studies and the application of remote sensing methods in coastal and terrestrial environments.

MILLER LEGG

S.E.A., INC.

Miller Legg, established in 1965, employs a staff of 63 professionals and technicians and has locations in *Fort. Lauderdale*, Miami, Port St. Lucie and Winter Park.



Miller Legg has been working with the City of Fort Lauderdale since 2007 on a variety of environmental services and currently holds a General Environmental Engineering Services Contract through 2015. Services provided include threatened and endangered species assessments, environmental permitting compliance, consent order coordination, bid preparation, spec development, grading plans and pollution prevention plans, earthwork quantities, environmental construction observation, certified arborist services and Phase I and Phase II Environmental Site Assessments. Services also include indoor air quality/asbestos and lead-based paint evaluations. The firm has coordinated closely with City staff – acting as an extension of their office. Miller Legg will provide assistance with upland interface and local permitting for the Las Olas dredging project. Assigned staff are located in the local, Fort Lauderdale office.

AMERICAN VIBRACORE SERVICES (AVS)



If geotechnical vibracoring services are required, we will coordinate the sample collections with **American Vibracoring Services.** AVS is located in Delray Beach and

has extensive experience in vibracore sampling both inshore and offshore. They have the equipment and professional staffing to quickly and efficiently collect vibracore samples in the proposed project area, if needed. ATM has also worked with AVS on a number of recent projects.



NON-COLLUSION STATEMENT:

By signing this offer, the vendor/contractor certifies that this offer is made independently and *free* from collusion. Vendor shall disclose below any City of Fort Lauderdale, FL officer or employee, or any relative of any such officer or employee who is an officer or director of, or has a material interest in, the vendor's business, who is in a position to influence this procurement.

Any City of Fort Lauderdale, FL officer or employee who has any input into the writing of specifications or requirements, solicitation of offers, decision to award, evaluation of offers, or any other activity pertinent to this procurement is presumed, for purposes hereof, to be in a position to influence this procurement.

For purposes hereof, a person has a material interest if they directly or indirectly own more than 5 percent of the total assets or capital stock of any business entity, or if they otherwise stand to personally gain if the contract is awarded to this vendor.

In accordance with City of Fort Lauderdale, FL Policy and Standards Manual, 6.10.8.3,

- 3.3. City employees may not contract with the City through any corporation or business entity in which they or their immediate family members hold a controlling financial interest (e.g. ownership of five (5) percent or more).
- 3.4. Immediate family members (spouse, parents and children) are also prohibited from contracting with the City subject to the same general rules.

Failure of a vendor to disclose any relationship described herein shall be reason for debarment in accordance with the provisions of the City Procurement Code.

	<u>NAME</u>	<u>RELATIONSHIPS</u>
N/A		
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Miss.		

In the event the vendor does not indicate any names, the City shall interpret this to mean that the vendor has indicated that no such relationships exist.

