

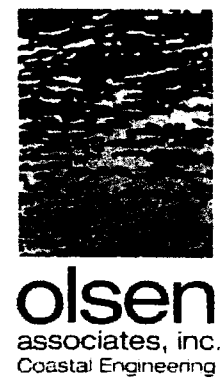
MEMORANDUM

Date: 21 March 2016

To: Bill Moore – SAISSA

From: Albert E. Browder, Ph.D., P.E.
Senior Engineer *AEB*

Re: OAI Task Order #17 CM-1852: Nassau Sound Geotechnical Investigation



Attached please find a proposed Task Order #17 for Nassau County Contract CM-1852. It is proposed to conduct a geotechnical investigation of Nassau Sound to develop sand borrow areas suitable for future beach nourishment of the South Amelia Island Shore Stabilization Project.

The proposal includes the collection of up to 55 seabed sediment Vibracores, each extending roughly 20 feet into the seabed in the general vicinity of the Nassau Sound ebb shoal. The Vibracores will be collected not only in the vicinity of the prior borrow areas used for SAISSP beach nourishment, but also in other areas in and around the Sound. These areas will be investigated to seek previously unexplored beach compatible sediment deposits and to potentially assess the fate of sediments that were historically placed along the South Amelia Island shoreline and subsequently eroded from the beach (presumably transported into the inlet).

The deliverables for this Task Order will include the Vibracore logs, photographs, and core descriptions, as well as detailed descriptions of sediment characteristics, including grain size analyses, carbonate/shell content assessment, and sediment color assessment. These data shall be prepared and submitted in accordance with Florida Department of Environmental Protection (FDEP) guidelines via a sand source development report of findings. The engineering evaluation of the Vibracores and their sediments will include the assimilation of the new data into the existing geotechnical database for the area, and an evaluation of the Vibracores in terms of borrow area development in Nassau Sound, with the objective of developing a borrow area or areas to pursue for a 15-yr, multiple nourishment permit to maintain the beaches of South Amelia Island.

Att.: Task Order #17 CM-1852
Exhibit A – Scope of Work

**NASSAU COUNTY - SAISSA
Task Order Memorandum
Contract CM1852**

To: Olsen Associates, Inc.
2618 Herschel St.
Jacksonville, FL 32204

Date: 21 March 2016
Contract: Coastal Engineering
Request Made By: SAISSA
Request Received By: Albert E. Browder, Ph.D., P.E.
Task Order No: CM 1852-TO #17

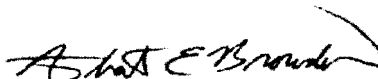
Task Order: Nassau Sound Geotechnical Investigation
South Amelia Island Shore Stabilization Project

The Consultant, aided by a qualified subcontractor, shall collect up to 55 shallow seabed sediment Vibracores intended to describe various areas of the seabed in State waters off Amelia Island, Nassau County, FL, in the vicinity of Nassau Sound and the South Amelia Island Shore Stabilization Project (reference Scope of Work - Exhibit A). These areas are proposed for investigation to seek to develop beach-compatible sand borrow areas for purposes of future beach nourishment along the South Amelia Island shoreline. Consultant tasks include the development of the field test plan, management of contract and subcontractor activities, field work to provide on-board direction and engineering review, engineering design and analysis of results and borrow site development, and final synthesis, reporting, and submittal of results in accordance with FDEP guidelines. Specific subcontractor efforts include the mobilization of a coring vessel, the collection of up to 55 sediment Vibracores, and the geotechnical logging, analyses, and reporting of the collected Vibracore and existing beach sediments data. These Services are potentially eligible for State cost-sharing, pending FDEP approval.

Task A	Sediment Vibracore Collection, Logging and Laboratory Analysis	\$127,200.00
Task B	Project Management, Engineering, Field Work, Final Report of Findings	\$ 96,900.00
	TOTAL	\$224,100.00
		(Lump Sum)

Olsen Associates, Inc.

SAISSA



Albert E. Browder, Ph.D., P.E.




Mr. Andrew L. Wallace, SAISSA President


Date: 21 March 2016

Date: 4-13-2016

Attest to Chair
Signature

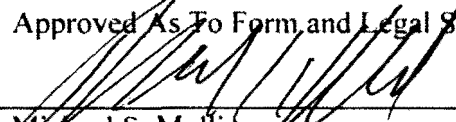
Nassau County Board of County Commissioners


Walter J. Boatright
Its: Chair



John A. Crawford
Its: Ex-Officio Clerk
Date: 4/22/16

Date: 4-20-16

Approved As To Form and Legal Sufficiency:


Michael S. Mullin

Date: 4-20-16

MES
04-22-16