



**“Exhibit A”
Scope of Work**

August 15, 2017

Mr. James Oppenborn
St. Lucie County Public Works Department
2300 Virginia Ave.
Fort Pierce, FL 34982

RE: ST. LUCIE COUNTY ARTIFICIAL REEF MONITORING SUBCONTRACT TO FAU (2017-2018)
Proposal for performing scientific evaluation of fish communities on Ft. Pierce Sportfishing site

Dear Jim,

This letter is to provide you with a proposal and cost estimate for our supplemental work for St. Lucie County (SLC) on the project entitled **“Fish community assessment on mesophotic artificial reefs of St. Lucie County,”** funded by Florida Fish and Wildlife Conservation Commission’s Artificial Reef Monitoring program (**FWC Agreement No. 16145**). The proposal consists of 1-Scope of Work (Exhibit A), 2 - Cost (Exhibit B), and 3 – Schedule (Exhibit 3). The reason for this supplement is to incorporate the added costs of diving and fishing into our previous agreement.

Scope of Work: Our overall goal is to conduct a fishery-independent assessment of the fish communities inhabiting St. Lucie County mesophotic artificial reefs (steel ships and concrete) using a combination of video and vertical line survey data. In this project, we will make use of baited remote underwater video stations (BRUVS) to allow for documentation of a wide diversity of species and for extended bottom times. BRUVS will be installed and retrieved by FAU divers and later analyzed in the laboratory. Vertical line collections will be conducted via combination of FAU and “Last Mango Charters” to develop indices of abundance and inspect fish for condition, size, and sex, particularly for managed species (snappers and groupers). These data are crucial for stock assessment, as relative abundance and biological data from multiple federally managed species is expected. We will provide a draft and final report of our findings to FWC as per the agreement.

Please contact me if any further information is required.

Sincerely,

A handwritten signature in black ink, appearing to read 'Matt Ajemian', is positioned below the word 'Sincerely,'.

Matthew J. Ajemian, Ph.D
Assistant Research Professor
Florida Atlantic University, Harbor Branch Oceanographic Institute
5600 US 1 North, Ft. Pierce, FL 34946, 772-242-2730, majemian@fau.edu

M. Ajemian (FAU subcontractor) – FWC Artificial Reef Monitoring Program



**“Exhibit B”
Costs**

August 15, 2017

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Using the quarterly fee sheet below, the following costs are proposed to perform the work involving diving operations for BRUV installation/monitoring and vertical line surveys, including data analyses and report writing.

FY	YR	Dates	Activities	Total
2018	1	Quarter 2	Winter field sampling I	\$ 13,512
		October 1 - December 31, 2017	Data analyses	
2018	1	Quarter 3	Winter field sampling II	\$ 7,417
		January 1 - March 31, 2018	Data analyses	
2018	2	Quarter 4	Summer Field Sampling I	\$ 2,747
		April 1 - June 30, 2018	Data analyses	
2019	2	Quarter 1	Summer Field Sampling II	\$ 2,662
		July 1 - September 30, 2018	Data analyses	
2019	2	Quarter 2	Data analyses	\$ 2,662
		October 1 - December 31, 2018	Report Synthesis	
			TOTAL	\$ 29,000

We will submit quarterly invoices to SLC for reimbursement.



**“Exhibit C”
Schedule**

August 15, 2017

Mr. James Oppenborn
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Fort Pierce, FL 34982

RE: ST. LUCIE COUNTY ARTIFICIAL REEF MONITORING SUBCONTRACT TO FAU (2017-2018)
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We will perform the field work during two major seasons, as specified in FWC Agreement No. 16145. The major sampling periods will be “winter” (December 2017 – March 2018) and “summer” (May – September, 2018) and. A breakdown of the scheduled tasks is listed below:

<u>Task</u>	<u>Estimated Completion Time</u>
Winter Sampling (6 BRUV events, 12 Vertical Line events)	March 31, 2018
Summer Sampling (6 BRUV events, 12 Vertical Line events)	September 30, 2018
Draft Report	December 1, 2018
Final Report	December 31, 2018