

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2027	2028	2029	2030	2031
Capital Expenditures	_____	_____	_____	_____	_____
Operating Costs	_____	_____	_____	_____	_____
External Revenues	_____	_____	_____	_____	_____
Program Income (County)	_____	_____	_____	_____	_____
In-Kind Match (County)	_____	_____	_____	_____	_____
NET FISCAL IMPACT	\$0	_____	_____	_____	_____
# ADDITIONAL FTE POSITIONS (Cumulative)	_____	_____	_____	_____	_____

Is Item Included in Current Budget? Yes X No _____
Does this item include the use of federal funds? Yes _____ No X
Does this item include the use of state funds? Yes X No _____

Budget Account No.:

Exp: Fund 1229 Department 380 Unit 3315 Object 3401 Program _____

Rev: Fund 1229 Department 380 Unit 3315 Source 3439 Program _____

Task: E208 Sub Task: ILWL

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

C. Department Fiscal Review: _____

III. REVIEW COMMENTS

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

John Mat 9/11/20
OFMB 9/11/20
AH 9/11/20

Madeline Mack 9/11/20
Contract Development and Control

B. Legal Sufficiency:

Fx Moerkle 9/11/20
Assistant County Attorney

C. Other Department Review:

Department Director

(THIS SUMMARY IS NOT TO BE USED AS A BASIS FOR PAYMENT)

**DEP AGREEMENT NO. L0092
CHANGE ORDER NO. 1**

GRANTEE: Palm Beach County Board of County Commissioners

PROJECT TITLE: Palm Beach County Lake Worth Lagoon Seagrass Restoration Project Phase II

DEP Agreement No. L0092 (Agreement) entered into on January 13, 2025, and previously amended, is hereby revised as follows:

WHEREAS, the Grantee has requested a reallocation of the project budget.

WHEREAS, the Grantee has requested a change in task timelines within the Agreement period.

NOW THEREFORE, the parties agree as follows:

1. Attachment 3-1, Grant Work Plan, is hereby deleted in its entirety and replaced with Attachment 3-2, Revised Grant Work Plan, as attached to this Change Order and hereby incorporated into the Agreement. All references in the Agreement to Attachment 3-1 shall hereinafter refer to Attachment 3-2, Revised Grant Work Plan.
2. All other terms and conditions of the Agreement shall remain unchanged.

The parties agree to the terms and conditions of this Change Order and have duly authorized their respective representatives to sign it on the dates indicated below.

**PALM BEACH COUNTY BOARD OF
COUNTY COMMISSIONERS**

By: 
Deborah Drum, Director

Date: 7/23/26

APPROVED AS TO FORM AND LEGAL SUFFICIENCY

By: **Frank Moehrle** Digitally signed by Frank Moehrle
Date: 2026.07.01 11:00:47 -04'00'
Frank X. Moehrle, Assistant County Attorney

**STATE OF FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

By: **Amanda Peck** Digitally signed by Amanda Peck
Date: 2026.07.28 13:54:07 -04'00'
Amanda Peck, Program Administrator

Date: 07/28/2026

By: **Emma Stein** Digitally signed by Emma Stein
Date: 2026.07.28 12:47:33 -04'00'
Emma Stein, DEP Grant Manager

**ATTACHMENT 3-2
REVISED GRANT WORK PLAN**

PROJECT TITLE: Palm Beach County Lake Worth Lagoon Seagrass Restoration Phase II

PROJECT LOCATION: The Projects will be located within Palm Beach County (Grantee);

Project Number	Project Name	Latitude/Longitude
1	Lake Worth Lagoon Seagrass Restoration Phase II	26.674778, -80.046387
2	Lake Worth Lagoon System Assessment	26.674778, -80.046387

Project 1: Lake Worth Lagoon Seagrass Restoration Phase II

PROJECT BACKGROUND: This project is a continuation of the work performed in Agreement LPA0721, Lake Worth Lagoon Initiative. The Lake Worth Lagoon estuary has been subject to habitat loss due to dredging and filling activities, wastewater and stormwater discharges, and shoreline hardening. Focus areas for this project include those that have been previously degraded but now have a high likelihood of successful persistence. These degraded seagrass beds will likely continue to be adversely impacted by factors other than water quality such as overgrazing or sediment transport. This project will jumpstart the ecosystem services that seagrass provides and promote sediment stabilization.

PROJECT DESCRIPTION: The Grantee will grow native seagrasses in an upland aquaculture facility and plant them in the Lake Worth Lagoon. A portion of the seagrass planting units will then be protected from grazing and maintained for a period of one to two years. The results of this project will be monitored and evaluated for percent survival and growth.

Project 2: Lake Worth Lagoon System Assessment

PROJECT BACKGROUND: The Lake Worth Lagoon (LWL) estuary stretches 20 miles along the shores of 13 municipalities from the Village of North Palm Beach to the Town of Ocean Ridge. LWL has been subjected to water quality impacts and habitat loss due to dredging and filling activities, wastewater and stormwater discharges, and shoreline hardening. The Lake Worth Lagoon Management Plan (LWLMP), adopted by the Board of County Commissioners in 2008 and updated in 2013 and 2021, includes projects to improve water and sediment quality and to restore habitat for seagrass, mangroves, and oysters.

PROJECT DESCRIPTION: The water quality of Lake Worth Lagoon's 11.3 square miles of surface area is largely driven by the quality and quantity of freshwater and stormwater discharge entering the system from a 477 square mile watershed that stretches from Lake Okeechobee to the Atlantic Ocean and that includes over 800 miles of drainage canals. The Lake Worth Lagoon watershed includes portions of the Lake Okeechobee Basin management Action Plan (BMAP) area as well as three impaired WaterBody Identification number (WBID) segments within Lake Worth Lagoon. The Grantee intends to implement recommendations and designated action plans of the LWLMP through water quality and biological monitoring by assessing the impacts of freshwater and stormwater discharge and by monitoring the system response resulting from dedicated projects that improved discharge, created living shorelines, capped muck sediments, and filled dredge holes. These assessments are important to monitor long-term changes as water releases from Lake Okeechobee drainage canals continue with concurrent restoration efforts designed to improve and properly manage the system.

TASKS: All documentation should be submitted electronically unless otherwise indicated and should be submitted prior to the expiration of the grant agreement.

Task 1: Cultivate and Plant Submerged Aquatic Vegetation (SAV), Temporary Deployment of Herbivory Exclusion Cages

Deliverables: The Grantee will package SAV into planting units from nursery stock, then cultivate them in preparation for installation in the project area. Once the plants are viable, the Grantee will plant SAV in groupings that will be protected as needed by herbivory exclusion cages to protect the SAV until they are established. The Grantee will note the location of the plants and cages deployed, as applicable.

- **Project 1: Lake Worth Lagoon Seagrass Restoration Phase II**

Documentation: The Grantee will submit: 1) a detailed list of SAV purchased from the nursery stock and the dates and locations that the plants and exclusion cages were installed; and 2) a signed summary of activities completed for the period of work covered in the payment request, using the format provided by the Department's Grant Manager. Upon request by the Department's Grant Manager, the Grantee will provide additional supporting documentation relating to this task.

Performance Standard: The Department's Grant Manager will review the documentation to verify that the deliverables have been completed as described above. Upon review and written acceptance by the Department's Grant Manager, a payment request may be processed.

Payment Request Schedule: The Grantee may submit a payment request for cost reimbursement no more frequently than monthly.

Task 2: Project Management

Deliverables: The Grantee will provide project management services related to Lake Worth Lagoon Seagrass Restoration Phase II, to include review of documents and forms, budget oversight, contractor oversight preparation and submittal of progress reports, processing of payment requests and related documentation, and overall project coordination and supervision.

- **Project 1: Lake Worth Lagoon Seagrass Restoration Phase II**

Documentation: The Grantee will submit a signed summary of activities completed for the period of work covered in the payment request, using the format provided by the Department's Grant Manager. Upon request by the Department's Grant Manager, the Grantee will provide additional supporting documentation relating to this task.

Performance Standard: The Department's Grant Manager will review the documentation to verify that the deliverables have been completed as described above. Upon review and written acceptance by the Department's Grant Manager, a payment request may be processed.

Payment Request Schedule: The Grantee may submit a payment request for cost reimbursement no more frequently than monthly.

Task 3: Quality Assurance Project Plan

Deliverables: The Grantee will prepare a Quality Assurance Project Plan (QAPP). The QAPP must be approved by the Department prior to commencement of any monitoring associated with the project. The QAPP must specify the sampling procedures, locations, instruments, and parameters to be sampled. The Grantee will use the format provided by the Department's Grant Manager, if applicable.

- **Project 2: Lake Worth Lagoon System Assessment**

Documentation: The Grantee will submit: 1) a draft QAPP submitted in Word format; and 2) a final Department-approved QAPP in Word or PDF format.

Performance Standard: The Department's Grant Manager will review the documentation to verify that the deliverables have been completed as described above. Upon review and written acceptance by the Department's Grant Manager, a payment request may be processed.

Payment Request Schedule: The Grantee may submit a payment request for cost reimbursement following the conclusion of the task.

Task 4: Lake Worth Lagoon System Assessment

Task Description: Document Lake Worth Lagoon's environmental health and utilize information accessed through this effort to monitor water quality, seagrass improvements and oyster habitat based on the implementation of construction projects designed for their benefit. The technical data will be compiled in final reports and utilized to assess the overall health and abundance of seagrass and oysters as directly correlated to water quality within the Lagoon, and to assist with establishing a basis for potential water quality improvement strategies and plans.

1. Lake Worth Lagoon Fixed Transect Seagrass Monitoring

Monitoring of transects and ground-truthing points located throughout LWL. Monitoring includes seagrass depth distribution, abundance, density, location, and species diversity in relation to measured and monitored field parameters such as salinity, dissolved oxygen and temperature.

2. Lake Worth Lagoon Oyster Monitoring

Monitoring of the eastern oyster, *Crassostrea virginica*, at three natural oyster reef stations and three man-made reef stations within LWL. Monitoring effort includes prevalence and intensity of the oyster parasite, *Perkinsus marinus*, field parameters and sedimentation rates along with oyster density, and recruitment.

3. Lake Worth Lagoon Freshwater Input Assessment

Purchase of equipment to monitor environmental conditions relative to seagrass growth and oyster recruitment that will assist in management decisions and restoration efforts throughout the Lagoon. Equipment will be purchased and retained by the Grantee.

- **Project 2: Lake Worth Lagoon System Assessment**

Deliverables: The Grantee will submit a summary of completed monitoring activities to date for the period covered in the payment request. For the final documentation, the Grantee will also submit the following documents electronically:

1. LWL Fixed Transect Seagrass Monitoring reports
2. LWL Oyster Monitoring reports.
3. Copy of Receipts or Invoices for Miscellaneous/Other Expenses

Performance Standard: The Department's Grant Manager will review the documentation to verify that the deliverables have been completed as described above. Upon review and written acceptance by the Department's Grant Manager, a payment request may be processed.

Payment Request Schedule: The Grantee may submit a payment request for cost reimbursement no more frequently than monthly.

PROJECT TIMELINE & BUDGET DETAIL: The tasks must be completed by the corresponding task end date. Cost reimbursable grant funding must not exceed the budget amounts as indicated below.

For payment requests that include Contractual Services, the Grantee shall provide documentation of the procurement process, as consistent with Attachment 1, Section 9.c.

Task No.	Task Title	Budget Category	Grant Amount	Task Start Date	Task End Date
1	Cultivate and Plant Submerged Aquatic Vegetation (SAV), Temporary Deployment of Herbivory Exclusion Cages	Contractual Services	\$220,500	07/01/2024	01/31/2030
2	Project Management	Salary	\$33,054	07/01/2024	01/31/2030
		Fringe Benefits	\$16,946	07/01/2024	01/31/2030
	Task Total		\$50,000		
3	Quality Assurance Project Plan	No-Cost Deliverable	\$0	07/01/2024	09/30/2025
				07/01/2024	12/31/2025
4	Lake Worth Lagoon System Assessment	Contractual Services	\$221,782.06	07/01/2024	02/28/2030
		Miscellaneous/ Other Expenses	\$26,790	07/01/2024	04/30/2028
	Task Total		\$248,572.06		
Project Total:			\$519,072.06		

SALARY AND FRINGE BENEFITS BY TASK: Cost reimbursable funding or match hourly and fringe rate(s) by position may not exceed those indicated below.

Cost reimbursable funding or match hourly rate(s) by position may not exceed those indicated below. Fringe benefits will be reimbursed based on actual costs, with the total not to exceed the budgeted amounts shown in the Project Timeline & Budget Detail table.

Task No.	Position Title	Salary Amount	Fringe Amount
2	Environmental Director	\$69.92	55.41%
	Environmental Manager	\$49.60	55.41%
	Environmental Program Supervisor	\$43.58	55.41%
	Construction Project Manager	\$46.81	55.41%

	Senior Professional Engineer	\$65.90	55.41%
	Professional Engineer	\$57.70	55.41%
	Project Coordinator I	\$37.40	55.41%
	Technical Assistant II	\$36.33	55.41%
	Senior Environmental Analyst	\$42.06	55.41%
	Environmental Analyst	\$32.69	55.41%
	Environmentalist I	\$26.16	55.41%
	Environmentalist II	\$33.24	55.41%
	Environmental Technician I	\$21.88	55.41%
	Environmental Technician II	\$31.79	55.41%
	Contract Manager	\$33.37	55.41%
	Contract/Grants Coordinator	\$36.31	55.41%
	Student Employees	\$15.56	55.41%
	Subtotal	\$33,054	\$16,946

Note: Upon submission of each payment request, the Grantee certifies that the hours and rates submitted are accurate and allowable costs for the grant agreement. Upon request by the Department's grant manager, additional documentation of hours worked will be provided.

Budget narrative: Miscellaneous/Other Expenses = the Grantee will purchase four water quality monitoring sondes at an anticipated cost of \$6,697.50 per unit.



INTEROFFICE MEMORANDUM
Palm Beach County
Environmental Resources Management

DATE: January 28, 2025

TO: Verdenia C. Baker
 County Administrator

THROUGH: Patrick Rutter *PWR*
 Deputy County Administrator

FROM: Deborah Drum, Director *DD* 1-29-25
 Environmental Resources Management

SUBJECT: REQUEST FOR DELEGATION OF APPROVAL AUTHORITY:
 An Agreement No. L0092 (Agreement) with the State of Florida,
 Department of Environmental Protection (FDEP) for an
 amount not-to-exceed \$270,500 providing financial assistance
 for the Lake Worth Lagoon Initiative (LWLI), for one (1)
 project located in the Lake Worth Lagoon, for a term beginning
 upon execution and expiring August 31, 2030.

On January 7, 2025, agenda item 3L-2 (R2025-0032), the Board of County Commissioners approved the County Administrator, or designee, to sign all future time extensions, task assignments, certifications, and other forms associated with the Agreement, and any necessary minor amendments that do not substantially change the scope of work, or terms and conditions of the Agreement.

This memorandum is my request for delegation of signatory authority for the Director or Deputy Director of Environmental Resources Management (ERM), to sign all future time extensions, assignments, certifications, and other forms associated with the Agreement, and any necessary minor amendments that do not substantially change the scope of work, or terms and conditions of the Agreement. If you agree, please sign below and return this memorandum. I am available to answer any questions you may have concerning this request. Thank you in advance for your consideration.

APPROVED: *Verdenia C. Baker* DATE: 2/7/25
 Verdenia C. Baker, County Administrator

DD:am
 Attachment