

## Agreement Initiation Form

### Agreement Info

Agreement Number:	LPA0418
Project Title:	South Beaches WWTF Conversion to AWT, 6MGD
Grantee:	Brevard County
Award Amount:	\$12,000,000
Funding Source:	LP, GAA LI 1650A, FY 22-23, GR

### Project Info

Answer the questions below. Enter N/A for questions that do not apply to this project.

1) What is the estimated completion date for this project?	06/29/2026		
2) What type of project delivery method will be used for this project?	Design-Bid-Build		
3) Is this project a continuation of a project for which there is already an agreement in place with DEP?	No		
4) If yes, what is the DEP Agreement Number?	N/A		
5) Is the project geographically located within a DEP-approved Restoration Plan (i.e. Basin Management Action Plan or Reasonable Assurance Plan) area?	Yes		
6) If yes, what is the name of the Restoration Plan?	Indian River Lagoon BMAP		
<ul style="list-style-type: none"><li>The following link can be used as an interactive map to identify the BMAP status for the project: <a href="https://floridadep.gov/dear/water-quality-restoration/content/impaired-waters-tmdls-and-basin-management-action-plans">https://floridadep.gov/dear/water-quality-restoration/content/impaired-waters-tmdls-and-basin-management-action-plans</a></li></ul>			
7) If the project is geographically located within a Restoration Plan area, will the project be identified with a project number on the Statewide Annual Report?	No		
8) If yes, enter the Project Name and Unique ID from the Statewide Annual Report below.			
Project Number:		Unique ID:	
<ul style="list-style-type: none"><li>The following link is for the Statewide Annual Report: <a href="https://floridadep.gov/dear/water-quality-restoration/content/statewide-annual-report">https://floridadep.gov/dear/water-quality-restoration/content/statewide-annual-report</a></li></ul>			

### Project Location

Indicate the municipal area (e.g. city of \_\_\_, town of \_\_\_, etc.), county, project coordinates, and if work will be performed on State-owned land.

Municipal Area:	Melbourne Beach
County:	Brevard
Project Coordinates:	Lat/Long (28.0410, -80.5480)
Will work be performed on State-owned land?	No

**Project Background**

The project background can be a brief summary (i.e. 4-6 sentences) that provides relevant information on the history and/or scope of the project. Identify: 1) what the water related issue is; 2) why the water related issue is a problem; 3) how the Grantee will provide a solution to the problem (i.e. the project); and 4) what water-related benefits will result from the completion of the project.

Summary: The new Indian River Lagoon (IRL) regulations require that any water discharged into the IRL must meet advanced wastewater treatment (AWT) standards by July 1, 2025. The existing South Beaches WWTF 6 MGD treatment trains were not designed for and are not capable of meeting the low nutrient levels required for discharge (TN < 3 mg/L; and TP < 1 mg/L). Therefore, this project is for the conversion of the existing 6.0 MGD Carrousel Treatment System to a 5-Stage Bardenpho BNR treatment system that is capable of producing an AWT effluent. The conversion of the existing 6.0 MGD Carrousel Treatment System to an AWT treatment system will reduce total nitrogen and total phosphorus loadings to the IRL.

**Project Description**

Provide a brief summary (2-4 sentences) that only details the work that will be completed and reimbursed with the grant funding provided under this Agreement. Indicate if the grant funding will result in a completed project.

Summary: The grant funding will be used for the design and construction of the 5-Stage Bardenpho BNR Treatment system converting the existing South Beaches WWTF 6 MGD treatment train to AWT, reducing total nitrogen and total phosphorus loading within the Indian River Lagoon BMAP area. The grant funding will result in a completed project.

Will the funding provided in this agreement result in a fully completed project?

Yes

**Project Benefits**

Identify the estimated future benefits that will be provided by the completion of this project. The estimated benefits should reflect the entire project. Enter N/A for the benefits that do not apply to this project.

Total Nitrogen Reduction (lb/yr):	164,500
% Reduction Total Nitrogen (lb/yr):	56%
Total Phosphorus Reduction (lb/yr):	54,800
% Reduction Total Phosphorus (lb/yr):	56%
# of Potential Sewer Connections:	N/A
Septic Tanks Eliminated:	N/A
Septic Systems Upgraded/Enhanced:	N/A

**Tasks**

Indicate the tasks below that apply to this project and will have costs that will be reimbursed with the grant funding provided under this Agreement. For tasks that do not apply to this project, select No and leave the corresponding questions blank.

<b>Pre-Design Study</b>	<b>Include task in Grant Work Plan?</b>
	No
This task includes studies that will be completed prior to the design phase of the project. Examples: feasibility studies, environmental assessments, etc.	
1) Provide a brief summary below of the pre-design studies that will be completed under this task.	
<u>Summary:</u> <input type="text"/>	
2) What type of final report/documentation will be submitted upon completion of this task?	
<u>Summary:</u> <input type="text"/>	
3) Will the work under this task be completed by a contractor/consultant?	[Select Option]
4) If no, provide a brief summary below of how the work will be completed.	
<u>Summary:</u> <input type="text"/>	

<b>Design and Permitting</b>	<b>Include task in Grant Work Plan?</b>
	Yes
<p>This task includes activities within the design phase that are necessary for the completion of the design. Design, permitting, and other preconstruction activities can be covered under this task.</p> <p><u>Examples:</u> design, permits, geotechnical or topographic surveys, hydro-analysis, water modeling, etc.</p>	
1) Will other preconstruction activities (i.e. not design/permitting) be included included within this task?	No
2) If yes, provide a brief summary below of the other preconstruction activities.	
<u>Summary:</u> <input type="text"/>	
3) Will the work under this task be completed by a contractor/consultant?	Yes
4) If no, provide a brief summary below of how the work will be completed.	
<u>Summary:</u> <input type="text"/>	

<b>Bidding and Contractor Selection</b>	<b>Include task in Grant Work Plan?</b>
	Yes
<p>This task includes activities within the bid phase of the project.</p> <p><u>Examples:</u> bidding services, public notices, pre-bid meetings, bid packages, etc.</p>	
1) Will the contractor(s) for this project be selected through a competitive bidding process?	Yes
2) If no, provide a brief summary below of how the contractor(s) will be selected.	
<u>Summary:</u> <input type="text"/>	
3) Will the work under this task be completed by a contractor/consultant?	No
4) If no, provide a brief summary below of how the work will be completed.	
<u>Summary:</u> Bidding and contractor selection tasks will be completed by Brevard County staff.	

<b>Project Management</b>	<b>Include task in Grant Work Plan?</b>
	Yes
<p>This task includes project management activities for this project.</p> <p><u>Examples:</u> field engineering services, construction observation, site meetings with construction contractor(s) and design professionals, project coordination and supervision, etc.</p>	
1) Will the work under this task be completed by a consultant/contractor?	No
2) If no, provide a brief summary below of how the task will be completed.	
<p><u>Summary:</u> Project management will be led by Brevard County Utility Services Department staff with the assistance of a consultant.</p>	

<b>Connection to Central Sewer</b>	<b>Include task in Grant Work Plan?</b>
	No
<p>This task includes the connection of properties to central sewer. This task does not include the construction of extensions to the central sewer system, which should be included in the “Construction” task. Proper abandonment of the septic systems will be required for properties that are connected to central sewer.</p>	
1) How many residential properties will be connected?	<input type="text"/>
2) How many commercial properties will be connected?	<input type="text"/>
3) Will materials or supplies for this task be directly purchased by the Grantee?	[Select Option]
4) If yes, what is the estimated cost of the materials or supplies?	<input type="text"/>
5) Will the work under this task be completed by a contractor/consultant?	[Select Option]
6) If no, provide a brief summary below of how the work will be completed.	
<p><u>Summary:</u> <input type="text"/></p>	

<b>Construction</b>	<b>Include task in Grant Work Plan?</b>
	Yes
<p>This task includes the construction or installation of water related infrastructure.</p> <p><u>Examples:</u> replacement and/or installation of piping, extensions to water systems, improvements and/or upgrades to water treatment facilities, construction of lift stations, etc.</p>	
1) Will materials or supplies for this task be directly purchased by the Grantee?	No
2) If yes, what is the estimated cost of the materials or supplies?	
3) Will a Florida Licensured Professional Engineer be able to certify the work?	Yes
4) Will the work under this task be completed by a contractor/consultant?	Yes
5) If no, provide a brief summary below of how the work will be completed.	
<u>Summary:</u> <input type="text"/>	

<b>Study</b>	<b>Include task in Grant Work Plan?</b>
	No
<p>This task includes studies that are not connected to the design of a project or will be performed after the completion of a project.</p> <p><u>Examples:</u> feasibility studies, environmental assessments, master plans, project evaluation study etc.</p>	
1) Provide a brief summary below of the studies that will be completed under this task.	
<u>Summary:</u> <input type="text"/>	
2) What type of final report/documentation will be submitted upon completion of this task?	
<u>Final report/documentation:</u> <input type="text"/>	
3) Will the work under this task be completed by a contractor/consultant?	[Select Option]
4) If no, provide a brief summary below of how the work will be completed.	
<u>Summary:</u> <input type="text"/>	

<b>Equipment Purchase</b>	<b>Include task in Grant Work Plan?</b>	
	No	
<p>This task includes capital outlay costing \$5,000 or more that will be directly purchased by the Grantee and will not be permanently installed or constructed.</p> <p><u>Examples:</u> portable generators, vacuum trucks, pumps etc.</p>		
1) Provide a brief summary below of the equipment that will be completed under this task.		
<u>Summary:</u> <input type="text"/>		
2) Will the Grantee directly purchase the equipment from a vendor?		[Select Option]
3) If no, provide a brief summary below of how the equipment will be purchased.		
<u>Summary:</u> <input type="text"/>		
4) Will installation and start-up be included in the equipment purchase?		[Select Option]
5) If no, will there be construction or installation costs?		[Select Option]
6) If yes, what will the estimated cost be for the construction or installation?		<input type="text"/>

<b>Land Acquisition</b>	<b>Include task in Grant Work Plan?</b>	
	No	
<p>This task includes the purchase of land for acquiring interest and/or rights for real property (including access rights through ingress/egress easements, leases, license agreements or other site access agreements; and/or obtaining record title ownership of real property through purchase).</p>		
1) Provide a brief summary below of the land that will be acquired/purchased under this task.		
<u>Summary:</u> <input type="text"/>		
2) Will the land acquisition be fee simple?		[Select Option]
3) If no, will the land acquisition be less than fee simple?		[Select Option]

<b>Other</b>	<b>Include task in Grant Work Plan?</b>
	No
<p>This task includes activities that are not related to the previously listed tasks. These other activities may require a customized task to be included in the Grant Work Plan.</p> <p><u>Examples</u>: site clean up, site leases, muck dredging and spoil management, etc.</p>	
<p>1) Provide a brief summary below of the land that will be acquired/purchased under this task.</p>	
<p><u>Summary</u>: <input type="text"/></p>	

### **Project Timeline and Budget**

Complete this table to summarize timeline and budget for the tasks identified in the previous section. Use the dropdowns to select the task titles and enter the grant amounts that will be allocated to each task. All task start dates will reflect the grant reimbursement eligibility date of July 1, 2022. The task end dates should reflect an estimated completion date for each task. Add or delete tasks as needed.

Task No.	Task Title	Grant Amount	Task Start Date	Task End Date
1	Design and Permitting	\$ 1,000,000	10/01/2022	03/31/2024
2	Bidding and Contractor Selection	\$0	03/31/2024	06/29/2024
3	Construction	\$ 11,000,000	06/29/2024	06/29/2026
4	Project Management	\$0	10/01/2022	06/29/2026
5	Select Title	\$	07/01/2022	mm/dd/yyyy
Total:		\$12,000,000		