

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
GRANT WORK PLAN
DEP AGREEMENT NO.: R2128**

ATTACHMENT 3

I. TITLE PAGE

1. PROJECT TITLE: Building Neighborhood Resilience: Adaptation Action Area for Little River

2. GRANTEE Contact Information:

Organization Name: Miami-Dade County

Name of Authorized Signer: Jack Osterholt

Title: Deputy Mayor

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City: Miami

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3. GRANT MANAGER Contact Information:

Organization Name: Miami-Dade County

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Title: Chief Resilience Officer

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City: Miami

Zip Code: 33128

Area Code and Telephone Number: 305-375-4811

E-mail Address: James.Murley@miamidade.gov

4. FISCAL AGENT Contact Information:

Organization Name: Miami-Dade County

Name: Jorge Vazquez

Title: Division Manager

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5. FEID No. (a.k.a. Tax ID#): 59-6000573

Seq. No. 019

6. WORK PERFORMED BY: (Select only one)

- ☐ Grantee ONLY
☒ Subcontractor ONLY
☐ BOTH the Grantee & Sub-Contractor
☐ To Be Determined

7. SUBCONTRACTORS CONTACT INFORMATION: *(If applicable & known)*

Organization Name: To be determined

Name: _____

Title: _____

Address: _____

City: _____

Zip Code: _____

Area Code and Telephone Number: _____

E-mail Address: _____

8. PROJECT LOCATION: This project generally covers the area from Interstate 95 eastward toward Biscayne Bay between NE 93rd St as a northern border and approximately NE 71st St as a southern border. It includes portions of Unincorporated Miami-Dade County, the City of Miami, the entirety of the Village of El Portal (See Attachment 1 for map).

A. List of County(ies): Miami-Dade County

B. List of City(ies)/Town(s)/Village(s): City of Miami, Village of El Portal, Unincorporated Miami-Dade County

C. State Lands Lease Agreement Number(s): N/A

Provide lease agreement number(s) for any work that will be performed on State Lands. If work will not be on any state lands, please indicate N/A.

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II. WORK PLAN

9. PROJECT SUMMARY: Miami-Dade County seeks to designate the Little River Basin in Miami-Dade County as an Adaptation Action Area (“AAA”) and collaboratively develop an adaptation plan with community members, local leaders and other stakeholders. Project goals are to: 1. Improve understanding of historic and emerging physical and social vulnerabilities to flooding and other climate change impacts; 2. Collaboratively develop strategies, actions and policies (e.g., green and gray infrastructure, park expansion, selective buyouts) to reduce risk and build long-term resilience; and 3. Develop an adaptation plan that will include a five-year capital improvement program that incorporates resilient design and best practices.

10. PROJECT DESCRIPTION: Miami-Dade County respectfully requests \$75,000 to expand upon previous work to develop an adaptation plan for the Little River Basin in Miami-Dade County and facilitate its designation as an Adaptation Action Area (“AAA”). This project would help implement Goal 1: Places of the Greater Miami & the Beaches’ Resilient305 Strategy by addressing Objective 1 - Action #5 “Integrate Resilience into Parks and Open Space” and Objective 2 – Action #10, “Strengthen Resilience Planning”. These actions describe the use of Adaptation Action Areas as a planning framework and the many benefits offered by expanding and enhancing open space such as reducing nutrient levels and other social, health, and economic disparities. The Little River basin is one of the most flood-prone areas within Miami-Dade County, the most populated coastal county in Florida, with an adopted Coastal Management Element in their Comprehensive Development Master Plan and estimated 2.7 million residents. Requested funds in its entirety would be used to hire a qualified consultant or contractor to: Help coordinate and facilitate internal (County staff) and external stakeholder meetings and discussions; Gather and conduct research and surveys on the area’s climate and hazard vulnerability, and associated impacts on economic, environmental, and societal conditions; Develop recommendations to guide future capital improvement planning for the area; and develop a final Adaptation Plan for the area. Staff from Miami-Dade County Office of Resilience will: Manage the grant and consultant contract; Implement the project’s public outreach strategy; support implementation of the project’s community engagement strategy; and synchronize interdepartmental and interagency capital projects planning within the AAA to ensure that resilience factors pertaining to sea level rise and other flooding risks are considered. The timing, scope and nature of direct community engagement may depend on the COVID-19 situation and related social distancing or other guidelines in place for the community.

11. PROJECT NEED AND BENEFIT:

A. Explain the demonstrated need, which the project addresses. The Little River basin is one of the most flood-prone areas in Miami-Dade County. Little River was developed on a traditional “slough”, or a low-lying area, which historically drained from the Everglades to Biscayne Bay. Sea level rise has already compromised drainage systems, including the regional system run by the South Florida Water Management District. This has led to chronic flooding in the wet season and during King Tides, which has led to loss of cars, as well as damage and displacement from homes. There are several repetitive loss properties in this area. There are also large water quality issues, affecting the health of Biscayne Bay and which presents a public health risk, particularly for children and elderly residents in the area. Much of the area within unincorporated Miami-Dade County is on septic systems and a previous report found many of them to be compromised by current water levels. Some areas on septic are directly flooded by king tides. Water quality measurements in the Little River have found target concentrations of bacteria (fecal coliform) to be exceeded in more than 39% of samples on average for all seasons between 2003 and 2010. Some months have seen sample exceedances for fecal coliform be measured as high as 56%. Measurements from DEP show very elevated levels of nitrogen and phosphorous in the Little River, which could be one contributor to the declining health of the bay.

Over time, rising sea and groundwater levels have diminished the capacity of the drainage system. Many areas are no longer above the elevation of the highest tides and groundwater levels are close to

the surface. Local pumps have been installed in some locations, but sea level rise will strain their long-term efficacy. The South Florida Water Management District identified this basin (C-7) as one of the most vulnerable in south Florida and worked Dutch experts to study how flooding risks will change with sea level rise. This detailed, multi-year study evaluated the effectiveness of large forward pumps (sized at 1,000 and 2,800 cfs) and found they would be effective until ~2028 to ~2045 depending on the rate of sea level rise. The study also identified small areas where selective raising of roads and houses could eliminate the need for pumps and provide a benefit to the entire watershed. This selective raising (or acquisition) strategy was shown by the Dutch analysis to be resilient against sea level rise past 2100. Avoiding the need for forward pumps could present environmental benefits from a water quality perspective and by reducing disruptions to key manatee habitat. Additionally, a previous study by the City of Miami included recommendations to increase the resilience of this area through, strategic land acquisition and park expansion, zoning and future land use map changes, code modifications, and green infrastructure. There is also the potential to create a linear park and living shoreline along parts of the river.

Most importantly there are many low- to moderate-income residents in this area that are being affected by chronic flooding which presents a potential public health and safety risks and financial risks as sea levels rise. Addressing this environmental justice issue is a top priority of the Office of Resilience. Additionally, County departments and local governments are largely addressing issues in this area independently and without a full consideration of climate impacts. Creating an AAA will help address these interrelated issues.

- B. Explain how the proposed project meets the purpose of one or more of the Goals and Priorities for FRCP.** This project builds on existing compliance with Peril of Flood requirements by creating an Adaptation Action Area (Priority Area #2) that includes multiple communities within the Little River area and by developing an adaptation plan for low to moderate income, historically marginalized neighborhoods (Priority Areas #3 and #5). Guided by the regional Resilient305 strategy these efforts will be conducted collaboratively with the City of Miami to align with simultaneous resilience planning in the adjoining Shorecrest neighborhood and in coordination with the Village of El Portal (Priority Area #4). The collaboration will include information/data sharing, consideration of regional adaptation approaches, integrated planning for implementation, and coordinated outreach when appropriate. The ongoing challenges in the area (septic system failure, water pollution, and chronic flooding) directly intersect with and advance environmental justice.
- C. Discuss how the project is feasible and can be completed by the grant period deadline.** Multiple studies provide excellent baseline information about the vulnerability of the Little River Basin. Most importantly the South Florida Water Management District's study of the basin provides high-quality information about risks and focus areas. Additionally, the County is completing a regional sea level rise strategy, which provides a strong foundation to do more detailed planning at the neighborhood level. The County has multiple staff with expertise and experience with similar projects and has the ability to contract out through an expedited procurement process for assistance with developing graphic renderings and landscape and urban design components.
- D. Explain how this project is addressing social vulnerability or vulnerability of historic resources or stormwater management systems.** The proposed AAA contains several census tracts where more than 25% of the population is below the poverty line, with most of majority non-white tracts at even higher rates. By centering the community engagement around these socially vulnerable populations, the project can help ensure that resiliency strategies address the related issues of public health, affordable housing, and environmental health. This planning process will focus heavily on existing and future water challenges in the Little River basin, which is at risk of multiple types of flooding. Evidence has shown that flooding and other disasters disproportionately impact socially vulnerable residents and exacerbate economic inequality. Furthermore, there are more than 120,000 septic

systems in the County and approximately half of them are expected to be compromised by 2040. Many of those systems are in this watershed. It is beyond the means of most residents to self-finance the connections to the central sewer. Water quality measurements for the Little River in 2018 reported the numeric standard for 73.1% of Escherichia coli and 99.9% of dissolved oxygen samples were exceeded. This risk combined with chronic flooding presents a risk to public health. This project will explore different models to help our residents finance failing septic systems.

This planning effort will also consider how proposed resiliency strategies/approaches overlap with the several historic and archaeological resources located within the study area. These resources represent many eras of settlement and development that informed subsequent growth and planning efforts. These resources include historic seawalls, residences dating from the early through mid-20th century, and a prehistoric burial mound. Additionally, the land within 500 feet of the banks of the Little River is generally considered a high probability archaeological zone, given the prolific use of the river by prehistoric tribes and historic pioneer settlements.

12. DESCRIPTION OF PROJECT OUTCOMES:

This project is expected to generate the following outcomes:

1. Outcome: Improved community resilience and reduced overall flooding risk to impacted neighborhoods (long-term)
 - a. Outputs: Collaboratively develop a final adaptation plan for the project area that includes recommendations for capital planning activities, as well as graphics and a report (Priority Area #2); Facilitate designation of the project area as an Adaptation Action Area; and influence the adoption of ordinances by Miami-Dade County to successfully implement a adaptation plan for the AAA (Priority Area #4)
2. Outcome: Increased public awareness and knowledge of flood risks in impacted areas
 - a. Outputs: Publicly accessible print and online interactive maps that present multiple sea level rise scenarios for 2030, 2060, and 2100 and include multidirectional flooding impacts (storm surge, ground water, king tides, and precipitation). The most current South Florida Regional Climate Change Compact Unified Sea Level Rise Projection will be used at the time the project starts. (Priority Areas #2 & #3)
3. Outcome: Improved interagency coordination and information sharing among area stakeholders and community members
 - a. Outputs: Sharing community input in the form of meeting minutes, summary report, and strategy designs from four events held throughout the AAA: three public workshops plus another engagement event (Priority Areas #2, #3, #4)

13. **BUDGET SUMMARY:** Allowable budget categories and form of payment with the costs for this project are listed in the table below.

BUDGET SUMMARY BREAKDOWN

Budget Categories	Payment	Task 1	Task 2	Task 3	Task 4	Grant Amount Awarded
Salaries & Fringe	Fixed Price	\$0	\$0	\$0	\$0	\$0
Contractual Services*	Fixed Price	\$5,000	\$15,000	\$25,000	\$30,000	\$75,000
GRANT AGREEMENT TOTAL		\$5,000	\$15,000	\$25,000	\$30,000	\$75,000

- A. **Describe how the project costs was determined:** The estimated cost is based upon the cost for similar projects in Miami-Dade County including the pilot AAA project Miami-Dade County completed in 2016. The County plans to provide substantial in-kind match in the form of staff time and resources (e.g., printing and materials).

B. Contractual Services Selection*: Upon a selected Sub-Contractor(s) (if applicable), the Grantee will Provide a signed certification statement giving a description of the procurement process that was utilized for the selection of the sub-contractors. The description must include:

- a. What procurement process was utilized
- b. Justification as to how & why you made your final selection.
- c. For competitively obtained Sub-Contractor also include:
 - i. A list of all entities that you received bids/quotes from,
 - ii. Names and addresses of those entities that provided bids/quotes,
 - iii. Actual amounts of the bids/quotes that were submitted.

14. PROJECT TIMELINE: All tasks are to be completed and submitted no later than the task/deliverable due date listed in the table below. Requests for any change must be submitted prior to the current task/deliverable due date listed in the project timeline. Requests are to be sent via separate email to the Department's Grant Manager, with the details of the request being made and the reason for the request.

PROJECT TIMELINE

Task No.	Task Title	Deliverable Due Date	Funding Amount
1	Consultant hiring, project kick-off and initial stakeholder engagement	12/18/2020	\$5,000
2	Conduct 4 outreach events	3/29/2021	\$15,000
3	Develop localized adaptation strategies and associated graphics	4/2/2021	\$25,000
4	Develop final Adaptation Plan	4/30/2021	\$30,000
Total			\$75,000

15. PERFORMANCE MEASURES: The Grantee will submit all deliverables for each task via **one pdf document** to the Department's Grant Manager on or before the Task/Deliverable Due Date listed in the Project Timeline. The Department's Grant Manager will review the task/deliverables to verify that they meet the specifications in the Grant Work Plan and this task description, to include any work being performed by any sub-contractor(s). Upon review and written acceptance by the Department's Grant Manager of all deliverables under this task, the Grantee may proceed with payment request submittal.

16. CONSEQUENCES FOR NON-PERFORMANCE: The Department will reduce each Task Funding Amount by 5% for every day that the task/deliverable(s) is not received on the specified due date in the most recent Project Timeline, for the Agreement. Should a Change Order or Amendment be requested on the date of or after the most current task/deliverable due date, the 5% reduction of that Task Funding Amount will be imposed until the date of the requested change is received, via email by the Department.

17. PAYMENT REQUEST SCHEUDLE: Grantee may submit a request for the Task Funding Amount to be paid using the Exhibit C, after all deliverables for that task have been approved by the Department. Request(s) for payment must include the Exhibit A showing 100% completion of that task and must be submitted within 45 days of the task/deliverable due date. Please refer to the [website Grants page](#) for "How to Request Payment", and "Checklist for Requesting Payment".

Or

Grantee may submit one request for the Grant Amount Awarded, by using the Exhibit C, after the project is 100% completed. The request for the Grant Amount Awarded, must include an Exhibit A showing 100% completion for all tasks, and must be submitted within 45 days of the last task/deliverable due date.

18. FUNDING SOURCE: Grantee agrees to include on all publications, printed reports, audiovisuals (including videos, slides, and websites except that unless required under special terms of this Agreement, this requirement does not apply to audiovisuals produced as research instruments or for documenting experimentation or findings and which are not intended for presentation to the general public) or similar materials must include the DEP logo (which can be found on the Department's website at <https://floridadep.gov/resilience> or by contacting the Department's Grant Manager for a copy) and the following statement on, the following language.

"This work was funded in part through a grant agreement from the Florida Department of Environmental Protection, Florida Resilient Coastlines Program, by a grant provided by the Office of Resilience and Coastal Protection. The views, statements, findings, conclusions and recommendations expressed herein are those of the author(s) and do not necessarily reflect the views of the State of Florida or any of its subagencies."

The next printed line shall identify the month and year of the publication.

III. TASKS & DELIVERABLES

Task #1

A. Title: Consultant hiring, project kick-off and initial stakeholder engagement

B. Goal: Retain consultant and assemble, organize, and introduce the project to two key stakeholder groups: County departments and local governments involved in ongoing capital improvements and neighborhood leaders and representatives in the proposed Adaptation Action Area. Consolidate existing information about climate and hazard vulnerability as well as the economic, environmental, and societal conditions.

C. Description:

Task 1.1: Review and synthesize background documents

To build on the foundation of several previous studies, work, and recommendations, the project team will publish a synthesis document summarizing the relevant plans, vulnerability assessments, studies, and other initiatives in the proposed AAA. Using the Adaptation Action Area Checklist as a guide, staff will develop a visually compelling map series and briefing summary that synthesizes vulnerabilities, major opportunities, and identifies any major conflicts among existing plans.

Tasks 1.2: Convene and Survey Activities of Relevant County Departments/Staff

With the end goal of a 5-year coordinated capital improvements plan geared toward building resilience, Office of Resilience staff will organize a series of one-on-one and in-person group meetings with relevant partners in other government departments including: Transportation and Public Works; Stormwater Planning; Parks; Public Housing and Community Development; Water and Sewer; and Planning (including Historical and Archeological Resources). By facilitating a discussion about current and future hazard vulnerabilities and upcoming capital improvement, activity schedules, and within the proposed AAA, the County will be able to better identify opportunities for injecting resilience measures to achieve multiple benefits (e.g., stormwater control measures/green infrastructure for water quality and quantity management, recreation, and mobility). This series of discussions will be paired with Geographic Information Systems (GIS) analysis to assess overlap of anticipated capital projects and their intersection with future vulnerability caused by storm surge, stormwater, and canal flooding exacerbated by rising sea levels. The discussions will be consolidated into a summary document and will inform the types of adaptation strategies featured in the public

workshops and the final set of recommendations. These internal meetings can still be held virtually and be productive in the event the COVID-19 situation prevents in-person meetings.

Task 1.3: Conduct external (individual and group) stakeholder interviews

To improve likelihood of a successful and inclusive planning process, the County will schedule individual interviews with residents, key neighborhood and community leaders, and organizations to understand past and emerging resiliency challenges, public engagement preferences, and initial ideas about possible solutions. These discussions will help frame which topics, issues, and potential strategies are focused on during the iterative public workshops. The stakeholders will be identified using existing contacts with local representatives and through a snowball sampling approach. These stakeholders will also be considered as candidates for inclusion on the project team. The exact timing of these conversations and whether they are held in-person or virtually may depend on status of COVID-19 situation and related social distancing or other guidelines in place for the community.

D. Deliverable(s): The Grantee will submit all deliverables for each task via **one pdf document** to the Department's Grant Manager on or before the Task/Deliverable Due Date listed in the Project Timeline.

- 1) Visual briefing book and map series summarizing the research on relevant background documents (PDF)
- 2) Agendas and sign-in sheets from each staff workshop/meeting, indicating location, date, and time of workshop/meeting
- 3) Brief summary report from each staff workshop/meeting
- 4) Copies of announcements/advertisements from meetings/interviews with public
- 5) Agendas and sign-in sheets from any public meetings/interviews
- 6) Meeting materials from public meetings/interviews including presentations and URL and screenshot of story map
- 7) Brief summary report of all public meetings/interviews including attendee input and meeting outcomes

Task #2

A. Title: Conduct four outreach events

B. Goal: To host a series of interactive and accessible community events that aim to educate, engage, and empower local and regional stakeholders to support the planning process and future implementation. The public workshops and other forms of outreach will build upon one another to iteratively develop an adaptation plan. This will outline a path forward to address related flooding, public health, and water quality challenges. It will also be focused on addressing larger transportation, housing, and environmental issues.

C. Description: A successful adaptation planning process hinges on thorough and well-designed stakeholder engagement. To help build understanding, visualize issues and solutions, identify potential catalytic projects, and foster community dialogue, a series of outreach events will be designed to iteratively develop the adaptation plan. The timing and nature of these outreach events may depend on the status of the COVID-19 situation and related social distancing or other guidelines in place for the community. The project team will adjust accordingly.

Task 2.1 Develop outreach and stakeholder engagement strategy and materials

Staff will work with stakeholders to identify the most appropriate times and locations for the community events to foster robust and diverse participation. The strategy will include other engagement activities beyond public workshops as resources allow, such as a site walking tour, citizen science activities around king tides, tabling at already planned community events, door flyers, online

surveys, and use of social media. The strategy will aim to involve provision of language translation, child care services, transportation coordination, food and refreshments. It will also outline the objectives and outputs of various public engagement activities and how they will inform future material and adaptation plan development. Some materials will be presented in English, Spanish and Haitian Creole.

Proposed public engagement structure and timeline:

- September 2020: Public Workshop #1 (Project Kick-Off & Vulnerabilities Discussion)
- October 2020: Site walking tour, King Tide sampling, or other outreach activities
- Early December 2020: Public Workshop #2 (Community Design)
- January 2021: Public Workshop #3 (Finalize Adaptation Plan)

*Note: online survey, social media, and other interactions could occur throughout this process.

**Note: timing and nature subject to COVID-19 community response and situation (e.g., delayed slightly or transformed into virtual gathering or exercise to the extent feasible to meet goals).

Task 2.2 Synthesize public feedback and incorporate into materials and final report

The project team will collect, organize and summarize feedback received at public outreach events. This will guide the iterative development of materials at other public events and will inform the strategies, policies, and recommendations developed for the final adaptation plan.

D. Deliverable(s): The Grantee will submit all deliverables for each task via **one pdf document** to the Department's Grant Manager on or before the Task/Deliverable Due Date listed in the Project Timeline.

- 1) Copy of outreach and stakeholder engagement strategy
- 2) Copies of workshop/meeting announcements/advertisements
- 3) Agendas and sign-in sheets from each workshop/meeting, indicating location, date, and time of workshop/meeting
- 4) Presentation(s) and other materials/handouts from each workshop/meeting
- 5) Brief summary report from each workshop/meeting including attendee input and meeting outcomes
- 6) Any materials created at each workshop/meeting (as applicable)

Task #3

A. Title: Develop localized adaptation strategies and graphics

B. Goal: Create a suite of unique green and grey measures specific to the neighborhoods in the proposed AAA to address existing and future vulnerabilities and address other issues impacting socially vulnerable populations. Develop strategies that are represented by easy-to-understand and compelling visual drawings, renderings, and graphics in both digital and print form that highlight social, ecological, and economic implications.

C. Description: Using graphic and landscape design expertise of a consultant, stakeholders will be able to visualize the complex climate and social vulnerability challenges and collaboratively debate the appropriate adaptation strategies. Designs will leverage previous adaptation design activities and refine them to fit in the context of the Little River AAA.

Task 3.1: Develop renderings of adaptation strategies highlighting their implications on the landscape, co-benefits, and limitations

The consultant will synthesize adaptation strategies previously considered for implementation within the proposed AAA (e.g., Miami-Dade Sea Level Rise Strategy, South Florida Water Management District C-7 Risk Assessment, etc.). Staff will then build off these previous proposals and refine them

to better address the broader collective challenges faced in each neighborhood and the watershed. Renderings will attempt to convey the co-benefits and limitations of various adaptation strategies including their ability to improve stormwater management, address failing septic systems, water pollution, mobility, affordable housing, and economic development opportunities. The strategies will be organized by neighborhood typologies (e.g., mainland bayfront, slough, ridge). Outreach efforts will highlight and promote use of green infrastructure such as mangrove restoration, bioswales, street trees, bioretention basins, and wetland restoration.

Task 3.2 Revise Adaptation strategies and graphics based on feedback

Adaptation strategies will be developed in collaboration with the local community using a participatory outreach approach relying on iterative feedback from stakeholders to identify the best and most preferred solutions. Graphics and descriptions of adaptation measures will be refined iteratively to address common questions and misunderstandings so they can best convey how each adaptation strategy could work. Strategies will be developed with documented considerations of: applicable local buildings and zoning ordinances, future land use plans, environmental regulations, social and racial equity outcomes, current and projected flood risk (storm surge, sea level rise/tidal, groundwater, stormwater, canal), and adaptive capacity (ability to be altered or enhanced in the future). These factors will help assess feasibility throughout the engagement and plan development process. County staff will work with consultant to develop implementation mechanisms to understand which plans, ordinances, policies, or programs need to be changed to achieve resilience objectives. These proposed policy changes can serve as model policies for other communities. Results from the public workshops and feedback from other stakeholder engagement will be featured on an online interactive ArcGIS Story Map platform that allows users to interact with multiple forms of data (qualitative, quantitative, text, geospatial mapping, photos, videos and more). The consultant will draft summaries of engagement events.

D. Deliverable(s): The Grantee will submit all deliverables for each task via **one pdf document** to the Department's Grant Manager on or before the Task/Deliverable Due Date listed in the Project Timeline.

- 1) Summary report of initial adaptation strategies to include:
 - a. PowerPoint Presentation (as a PDF)
 - b. Posters (as PDFs)
 - c. Published online story maps (provide URL and screenshot)
- 2) Summary report of all revised adaptation strategies to include:
 - a. PowerPoint Presentation (as a PDF)
 - b. Posters (as PDFs)
 - c. Published online story maps (provide URL and screenshot)

Task #4

A. Title: Develop final adaptation plan for the Little River AAA

B. Goal: To produce a final adaptation plan to guide investments, policies, and decisions moving forward. The plan will consolidate key information gathered through previous tasks including a streamlined 5-year strategy to coordinate County capital improvements in a way that addresses current issues and builds future community resilience.

C. Description: The final adaptation plan will include consolidated work that is completed in tasks #1-3 and outline recommended policy changes and implementation measures.

Task 4.1 Create coordinated 5-year capital improvements strategy and set of procedures across county departments to leverage resilience-building opportunities

The County Office of Resilience staff will lead and facilitate discussion among relevant departments about planned capital improvements occurring in the AAA and assess overlapping activities (as described in Task 1.2). Through interdepartmental and intergovernmental coordination and planning the project team will identify opportunities to modify planned projects to better address current challenges (related to public health, water quality, and environmental health), as well as future flood risk (related to storm surge, canals, stormwater, groundwater, and high tides exacerbated by rising sea levels).

Task 4.2 Prepare policy recommendations

After identifying necessary policy changes the project team will develop a list of recommended changes to relevant county plans (e.g., Comprehensive Development Master Plan) or ordinances. Additional policies may also be necessary to address the myriad challenges in the area and the project team will draft new policy language as necessary. These can serve as model policies for other areas to replicate.

Task 4.3 Develop final adaptation plan for the Little River AAA

The consultant will lead formulation of a final professionally-formatted adaptation plan summarizing the project goals, planning process, engagement, existing and future climate change risks and environmental justice challenges, proposed adaptation strategies, coordinated capital improvement plan, policy recommendations, and a coordinated implementation plan. This plan will outline specific, prioritized actions paired with metrics for monitoring and evaluation. Each action will describe the responsible party, key partners, anticipated timeline, and source of revenue to implement. The final plan will live both as a professionally formatted document as well as an interactive ArcGIS Online Story Map.

- D. Deliverable(s):** The Grantee will submit all deliverables for each task via **one pdf document** to the Department's Grant Manager on or before the Task/Deliverable Due Date listed in the Project Timeline.
- 1) Final Adaptation Plan which includes 5-year county capital improvement strategy (PDF, Published to Online Story Map)