

EXHIBIT A
(CIG Application)

SHORELINE PROTECTION IMPLEMENTATION PLAN

A. Background and Justification

The southeast Georgia coast has been no stranger to tropical storms. From 1996 to 2017 the area experienced 13 hurricane related events, most recently in 2016 and 2017 with Hurricanes Matthew and Irma respectively. Hurricane Matthew grazed the southeast Georgia coast on October 6, 2016 as a Category 3 storm. Although the storm's eye remained approximately 60 miles off the Georgia's coast, Glynn County, the City of Brunswick and Jekyll still experienced severe tropical storm conditions. During Hurricane Irma, the National Oceanic and Atmospheric Administration reported for Glynn and the surrounding areas, 5-10" of rain, severe coastal erosion and widespread flooding. The same source, reported for this area a storm surge of 3.18 ft. with a maximum storm tide of 6 ft. Hurricane Matthew cost Glynn County approximately eleven million dollars in post disaster recovery efforts.

Not even twelve months later, on September 11, 2017, Hurricane Irma, a Category 2 storm, affected this area with widespread flooding, power outages, and additional localized coastal erosion. The cause of the massive flooding was the elevated water levels of 1-2 ft. above normal tidal that occurred for several tidal cycles before Irma's surge and rainfall. The tidal gauge on St. Simons crested at 6.90 feet on September 11, 2017, and storm total rainfall included 9.6 inches. Some coastal infrastructure already weakened from Hurricane Matthew suffered additional damages from Irma's storm surge. Repairs and debris collection related to this storm are still ongoing, but to date, Glynn County has incurred approximately seven million dollars.

Although destructive water and wind forces were present during Hurricane Matthew and Irma, both storms only grazed our coast. A typical Category 3 hurricane can bring 6 to 12 inches of rainfall, sea level rise of eighteen (18) feet or more, and similar storm surges to the affected areas. Making these types of storms even more dangerous can be a storm surge that may be superimposed on normal astronomical tides.

Unfortunately, the 2015 Hazard Mitigation Plan for Glynn County predicts that the probability if a reoccurrence of a similar storm is 60% during any given year. Compounded to this hazard, annual sea level rise, related to global warming, is predicted to be at 1 meter by 2100, making hurricane related flooding and storm surge more impactful. Currently during a hurricane Category 3, storm surge may be 9 ft. In 50 years the same storm surge is expected to be 10.5 Ft. due to sea level rise.

For these reasons, Glynn County, Jekyll Island, and the City of Brunswick are combining their efforts to protect the community's shorelines along the beach front, exposed marshes, and river edges.

Although humans can do little to prevent hurricanes and other related natural disasters, people can influence the severity of the impact of these storms. A Shoreline Protection Implementation Plan would allow all three partners to mitigate future disasters and become more disaster resilient. If no action is taken in protecting the community's shorelines, not only is the area exposed to greater damages from future storms, but any actions taken post-storm would only provide a "band aid" solution to a deeper problem.

1. Project Overview (4,000 words)

In 2016, the Georgia Department of Natural Resources, Coastal Resources Division, received a grant to develop a Brunswick-Glynn County Disaster Recovery and Redevelopment Plan (DRRP). This plan was created in partnership with Glynn County, the City of Brunswick, and Jekyll Island and was successfully finalized in early 2017 and adopted by the County in August of that same year. The DRRP incorporates the National Disaster Recovery Framework and the Georgia Disaster Recovery and Redevelopment Plan Guide and best practices of similar planning initiatives that have taken place in other coastal communities.

The DRRP is intended to increase community resiliency and disaster mitigation by providing site specific response for short term recovery, long term recovery, and redevelopment strategies. Glynn County, the City of Brunswick and Jekyll Island have suffered back to back hurricane related events and would like to partner with the Coastal Resource Division to work towards creating a Shoreline Protection Implementation Plan that will draw from the recommendations set forth in the DRRP.

The Shoreline Protection Implementation Plan (SPIP) will use shoreline related Recovery Support Functions (RSF) already developed within the DRRP. The RSF include short and long term recovery and redevelopment goals and objectives that are considered essential for a successful restoration and strengthening of key systems. The RSF related to SPIP issues are: (RSF):1) Community Planning and Public Information; 5) Infrastructure; and 6) Natural and Cultural Resources.

The Community Planning and Public Information RSF will provide members with: a) post disaster implementation recovery capacities, b) better coordination of expertise and assistance programs from across governments, c) a continuum of pre-disaster and post-disaster recovery planning, and d) improved coordination of community engagement efforts

The Infrastructure RSF, will provide members: a) an understanding of the integration of governments and other infrastructure owners and operators to achieve disaster recovery; b) the interoperability between all jurisdictions to achieve a successful restoration of infrastructure systems post disaster and the opportunity to plan “smart” to mitigate damages from future hazards; and c) the opportunity to increase resiliency in both infrastructure recovery and future capital planning

Natural and Cultural Resources RSF, will provide members: a) a better understanding of long term environmental and cultural resource recovery needs; b) a more coordinated effort between departments and agencies to preserve, protect, conserve, rehabilitate, recover and restore natural and cultural resources; c) better coordination of multi-state natural resources needs; and d) policy solutions for natural and cultural resource policy concerns and workarounds for process impediments

This is a multijurisdictional approach in trying to find the most eco-friendly solutions to future shoreline hazards. Glynn County, the City of Brunswick, and the Jekyll Island Authority have agreed to form a Shoreline Task Force to enable staff, from all jurisdictions, to share information, formulate a cohesive and linked effort between all members to increase disaster resiliency The Task Force will also work closely with the Department Natural Resources’ permitting staff and Coastal Hazards staff on all technical matters, to ensure and follow the

Shoreline Protection Act (O.C.G.A Section 12-5-230 et. seq.). Task Force will also coordinate with DRN's permitting and Coastal Hazards staff on project dissemination.

Project partners are proposing two separate components to the SPIP: 1) a shoreline assessment and resiliency plan, to be carried out and completed in year one; and, 2) the creation of a sea level rise response implementation plan, to be carried out and completed in year two.

Year one, will require an evaluation of existing shoreline conditions. The evaluation of the sites will provide a greater understanding of erosion problems, deterioration of existing protection walls, and/or any natural barriers that may have eroded due to the recent hurricanes. Additional information about existing gaps, needs, and overall current shoreline management will lead to more rational mitigation actions and appropriate selection of alternative solutions. This evaluation will be conducted with the assistance of the requested consultant and the Shoreline Task Force.

For the purposes of this plan, shorelines will include beach front, exposed marsh front, and river edges, as appropriate. A major portion of this assessment will also include analyses of Johnson Rocks installed in 1964, after Hurricane Dora. This rock revetment is considered the first line of protection along the area's sea facing shoreline. The assessment will determine the rocks' existing condition to include deterioration, sink level, and any washed away gaps caused by the most recent storms. This initial phase will also consider the following:

- An analysis of best practices of how to protect the shoreline with minimal armoring, adaptation to sea level rise and ultimately increase community resiliency.
- An inventory of beach profile data and historic erosion rate data for each standard erosion zone and inlet erosion zone.
- The creation of a shore protection zone.
- An inventory of all structures located in the areas of the shore protection zone.
- An inventory of turtle nesting and important habitats of the beach/dune system and a protection and restoration plan if necessary.
- An analysis of beach sand control alternatives that may include re-nourishment, sand fencing and native plants.
- A shoreline assessment that will evaluate current shoreline conditions and permit for maintenance, cost, ownership, and liability considerations; all of which are of public interest.
- A detailed step by step strategy for achieving the goals of this plan, which may consider a Johnson Rocks maintenance plan.
- A suggested ordinance change to enhance shore protection.
- Protection, preservation, restoration, stabilization and enhancement of the shorelines to provide for the protection of life and property.

During the second year, the Task Force will look at sea level rise and the hazards that this poses to our shorelines. The deliverable for the second year will be a Sea Level Rise Response Plan that will consider the sea level rise projection maps included in the DRRP and the recommendations of the Recovery Support Functions involving Community Planning/Information Sharing, Infrastructure; and Natural and Cultural Resources.

The Sea Level Rise Response Plan will include a comprehensive risk assessment of the most high-risk structures and infrastructure. Based on the results of the assessment, the partners hope to establish steps to mitigate future structural damages. The Task Force members will generally consider:

- A conventional zoning and land use plan for the shoreline area
- A drainage plan for the area seaward of the setback;
- Building relocation
- Utilities relocation
- Property buy outs
- Open space planning

The potential for negative impacts from rising sea level will require all three jurisdictions to continue to evaluate the feasibility of shoreline protections as their primary shoreline management technique and plan accordingly. All partners are responsible for planning, zoning, building regulation, code enforcement, floodplain management, etc. within their respective jurisdictions.

The Planning Commission and local governments will use the SPIP to update the Comprehensive plan. This addition will provide important Natural Resource Planning guidance as the three jurisdictions consider resiliency steps.

2. Coastal Management Relevance and other Federal Funding

The Mission of the Georgia Coastal Management Program is to balance economic development in Georgia's coastal area with preservation of natural, environmental, historic, archaeological, and recreational resources for the benefit of Georgia's present and future generations. This project is a natural fit since it addresses an immediate need to protect the community's shorelines in order to preserve this environmental resource and continue to boost our local economy. As an ecotourism destination, Glynn County, the City of Brunswick and Jekyll Island depend on the area's thriving ecosystems.

The Shoreline Protection Implementation Plan will consider all environmentally friendly options, actions, and steps needed in order to protect the environment along with preparing the community for any future hazards. Without this plan, our natural ecosystems along with future infrastructure are in increasing jeopardy. This project will allow the Task Force to identify immediate needs and gaps during the first year and if needed take immediate action and subsequently take a proactive approach in future sea level rise mitigation steps.

The Task Force will focus on a direct mitigation response to shoreline erosion, taking into consideration all available options. The Task Force will also be proactive in addressing land use as it relates to planning techniques to reduce and/or avoid future losses to property and infrastructure. Regulation of land use and limitation of development will be central concepts in the avoidance of losses in these areas.

Additionally, to ensure the sustainability of ecosystems for the benefit of future and current generations, the Task Force will follow a balanced precautionary approach in applying judicious and responsible shoreline practices based on the best available science and data. This will allow

for the Task Force to be rather proactive rather than reactive when creating the plan. The Task Force will evaluate existing and future threats to environmental degradation so as to reduce environmental risk when proposing shoreline improvements or solutions. It is important to note that due to the cumulative impacts of actions within the ecosystem, this can have dramatic effects on the natural habitat of many local species.

3. Project Goal for year one and two:

The goal of the Shoreline Protection Implementation Plan is to increase coastal resiliency. The plan will allow key stakeholders to make informed decisions on how to better adapt to natural and man-made impacts, providing the county with a vision for the future that is ultimately smarter planning.

Task descriptions for year one

Task 1 Title: Shoreline Assessment and Resiliency Plan

Task 1 Descriptions: Create a Shoreline Task Force that will include Glynn County, City of Brunswick, and Jekyll Island staff. The Shoreline Task Force will conduct, with the assistance of a consultant, an assessment of current shoreline conditions to include existing needs, gaps as it relates to pre-storm and post storm emergency actions for the shoreline. This task will also include the collection and analysis of relevant project data (for example: DRRP, RFS, and sea level rise projection maps)

- **Task Objective:** To analyze all eco-friendly solutions and best ways to mitigate future disasters that may include: Build back standards where appropriate, proper placement of infrastructure when determined needed, construction codes and mitigation steps as also considering leaving things in their natural state. Task Force will look at natural and man-made barriers to reduce wave energy and water displacement, example: Concrete breakwaters, sub-tidal water zones, upland buffers, beach nourishment, etc.
- **Task Activities to be performed and by whom**

Task1.a. Upon grant award, hire the Shoreline Protection Implementation Consultant.

TIMELINE: Months 0-3.

- Purchase Manager to release contractual bid
- Emergency Management Agency (EMA) Director and Purchase Manager to screen and review bids received
- Task Force to select best contractor based on related experience and qualifications
- EMA/Glynn County to offer contract to consultant

Task1.b. Gather shoreline related data, to include beach fronts, exposed marshes, and river edge. ***TIMELINE: Months 3-7.***

- Consultant will define criteria and data to be collected
- Task Force/Consultant will identify other key stakeholders
- Task Force/Consultant will assess the storm impacted shoreline

- Compilation of data relevant to beach erosion and historic erosion rate for each standard erosion zone and inlet erosion zone.
- Compilation of data relevant to other shorelines such as exposed marshes and river edges and, if available.
- Task Force/Consultant will evaluate all exposed shorelines to determine their vulnerability and possible protective measures and/or remediation solutions
 - To include an analysis of shoreline protection best practices with emphasis on minimal armoring and with a focus on sea level rise adaptation measures
 - To include an analysis of beach sand control alternatives that may include re-nourishment, sand fencing and native plants.
- Task Force/Consultant will establish a baseline level of protections at the different areas
 - To include an assessment of existing protective measures such as the Jonson Rocks and consideration of a maintenance plan to mitigate future disasters
 - To include consideration of maintenance, cost and liability considerations on all proposed levels of protection
 - To include a level of protection of the turtle nesting areas and important habitats of the beach/dune system- restoration plan if necessary.
- Task Force/Consultant will see ways to protect and enhance the natural shoreline barriers through the regulation of shoreline development
 - To include ordinance changes to enhance shore protection
 - To include the creation of a shore protection zone
 - To include an inventory of all structures located in the areas of the shore protection zone.
- Task Force will promote environmental education programs and standards that stress protection of fragile shore areas and wildlife
- GIS will collect data relevant to shoreline conditions
- Prioritize shoreline areas based on severity of damages suffered from Hurricane Matthew and Irma.

Task1.c. Compile Task 1.b. data for year one of project and all available information from preceding years, to determine damages/changes to shoreline. **TIMELINE: Months 7 – 9**

- Glynn County GIS to provide CY 2008 – 2017 data to assess SSI beach changes and Johnson Rock elevations
- Glynn County GIS to provide CY 2014-2017 data to assess Jekyll Island beach changes and Johnson Rock elevations

Task1.d. Examine best practices to determine the best possible solutions to existing natural and man-made barrier deterioration and provide a list of recommendations to all three jurisdictions. **TIMELINE: Months 7-9**

- Task Force and Consultant report to report of effort summary and provide their list of recommendations

Task 1.e. Outreach and media announcements related to the findings of the shoreline assessment and possible recommendations. ***TIMELINE: Months 9-12.***

- EMA Director to present at the Chatham Hurricane Conference in 2019
- Task Force will reach out to other coastal communities to attend the task force meetings. This will contribute to the coast’s mitigation strategies and the feasibility of replicating the project in surrounding communities with similar issues.

Task 1.f. Presentation of findings and recommendations to Glynn County, City of Brunswick, Jekyll Island Boards for action. ***TIMELINE: Months 9-12.***

Task Deliverable: *Shoreline Assessment and Implementation Resiliency Plan.*

Anticipated Completion date: Activities will be completed by September 2019

C.COMMUNICATION

Project partners will reach out to other coastal communities to participate in the Task Force meetings. Doing so, allow for interoperability of post hurricane shoreline protection strategies in addition to sharing relevant learning experiences. The Task Force considers the feasibility of replicating this plan in other coastal communities. Additionally, EMA and the jurisdictions’ Communications Managers will be responsible for relaying this information to the media and the public via public service announcements, town hall meetings, and community events.

Additional outreach efforts will include presenting the project highlights at the Chatham Hurricane Conference during 2019 and 2020.

D.PROJECT TIMELINE AND MILESTONES

In order to reach our projected end date of September 30, 2019 –for year one, the timeline of this plan will begin immediately following award notification

- October 1, 2018 –November 30, 2018; Consultant in place to begin working with the Shoreline Protection Implementation Task Force
- December 1, 2018 –June 30, 2019; Completion of data collection/analysis, shoreline assessment, and consideration of best practices
- July 1 2019-September 30, 2019; Outreach and media announcements related to findings and presentation of these along with recommendations to Glynn County, City of Brunswick, and Jekyll Island Boards.

E.PROJECT MANAGEMENT

Glynn County will be the lead applicant and the agency to procure the contractual services. Emergency Management Agency Director, Jay Wiggins will serve as the main point of contact and the liaison between all three jurisdictions. Glynn County has experience in managing federal

grants. Glynn County received a Coastal Incentive Grant Cycle 18, in 2015, for a Coastal Litter Prevention Program and this grant was successfully completed in 2017.

F. PROJECT BUDGET NARRATIVE AND STANDARD FORM FOR YEAR ONE

Budget Categories	CIG Funds Requested (Federal)	Match Funds Provided (Non-Federal)	Total (Federal + Non-Federal)
Personnel		59,547	59,547
Fringe Benefits			
Equipment (Items > \$5,000)			
Travel			
Supplies (Items < \$5,000)			
Subcontract	45,000		45,000
Construction			
Other			
Indirect			
TOTAL	45,000	59,547	104,547

Project Budget Narrative

1. Personnel (Match)

-Jekyll Island Authority staff:

- Executive Director, project connectivity with ongoing Jekyll Island shoreline protective measures, 10.40 hrs. @ \$95.53 per hour = \$993
- Director of Conservation, eco-friendly/green options overview to shoreline Protection and preservation of natural habitats, 41.60 hrs. @ \$30.11 per hour = \$1,253
- Chief Operations Manager, assessment of current shoreline conditions and possible natural and man-made solutions, 20.80 hrs. @ \$45.46 per hour = \$945
- Land Conservation Manager, eco-friendly/green options overview and best practices to shoreline Protection, 20.80 hrs. @ \$17.52 per hour= \$364
- Research Ecologist, eco-friendly/green options overview to shoreline Protection and preservation of natural habitats, 20.80 hrs. @ \$23.08 per hour = \$480
- Research Specialist, shoreline change data 10.40 hrs. @ \$14.23 per hour = \$148.00

- Glynn County Staff

- Emergency Management Director (EMA), Project Lead and liaison, will coordinate all project related activities, 360 hrs. @ \$40.97 per hour = \$14,749
- Emergency Management Specialist to provide (Assist the EMA Director in all aspects of the grant activities: meeting planning, data to consultant, etc. 240 hrs. @ \$20.22 per hour = \$4,853
- Director of Community Development and Planner to provide expertise in planning, zoning, and comprehensive plan 144 hrs. @ \$46 per hour = \$6,624
- Engineer, shoreline protection methods to include natural and man-made barriers considerations 120 hrs. @ \$39.19 per hour = \$4,703
- GIS Manager/Technicians/Analysts to provide (surveys, mapping, modeling, aerial photography, elevation analysis) 180 hrs. @ \$30 per hour = \$5,400
- Communications Manager, project dissemination and community engagement 120 hrs. @ \$31.69 = \$3,803
- Grants Coordinator, grant management and programmatic and financial reporting 240 hrs. @ \$23.27 per hour = \$5,585

-City of Brunswick Staff

- Engineer, shoreline protection methods to include natural and man-made barrier considerations, 132 hrs. @ \$30.61 per hour = \$4,040
- Public Works Manager, shoreline protection methods to include natural and man-made barriers consideration, 132 hrs. @ \$24.10 per hour = \$3,181
- Management and Communications Analyst, project dissemination and community engagement, 120 hrs. @ \$20.21 per hour = \$2,425

Subcontract (federal request)

-Hire consultant services to complete *Shoreline Assessment and Implementation Resiliency Plan* @\$45,000 which was based on the most recent payment made to a consultant that created a similar report.

Year 2 – Task 2 Title: *Sea Level Rise Response and Implementation Plan*

Task Descriptions: The Shoreline Task Force, with the assistance of a consultant will examine data on sea level rise and its related intermediate and long term hazards to Glynn County, the City of Brunswick and Jekyll Island. The Task Force will continue to convene to formulate action steps or implementation strategies to mitigate future impacts from sea level rise. This plan will also increase the community’s resiliency to future floods related to sea level rise. The Task Force will also consider the recommendations and goals set forth in the DRRP, specified in the Plan’s Recovery Support Functions: 1) Community planning/Information Sharing, 5) infrastructure, and 6) Natural and Cultural Resources.

Task Objective: To identify shoreline displacement due to related sea level rise. The Task Force will identify the immediate and long term action steps needed to mitigate the impact of this hazard and the long term planning and zoning techniques to reduce infrastructure loss.

Task Activities to be performed and by whom:

Task 2.a. Continue to work with the hired consultant from year one. **TIMELINE: Months 1**

Task 2.b Conduct an infrastructure inventory of all critical facilities close to the shoreline
TIMELINE: Months 1-3

Task 2.c. Analyze sea level changes from 2012-2017 ***TIMELINE: Months 4-5***

Task 2.d Communicate with infrastructure and public facilities to develop a plan for relocation efforts that ensure facilities are not within high hazard zones. ***TIMELINE Months 6-8***

Task 2. e Revise building and zoning codes regulating the placement and construction of utilities to enhance physical resilience (e.g. regulating placement of utility cables underground, mounting stoplights to poles). ***TIMELINE Months 9-10***

Task 2.f. Engage the community through the coordination of public information that is timely, accurate, and consistent across local government agencies ***TIMELINE: Months 10-12***

- Coordinate with EMA to conduct community meetings and present the concepts described in the Shoreline Protection Implementation Plan.

Task Deliverable: The Sea Level Rise Response and Implementation Plan will incorporate short and long term goals and objectives from the DRRP. The work items associated with the Sea Level Rise Implementation Plan will be incorporated in the following Comprehensive Plan update

Anticipated completion date, Activities will be completed by September 2020

C.COMMUNICATIONS

Project partners will reach out to other coastal communities to participate in the Task Force meetings. Doing so, allow for interoperability of post hurricane shoreline protection strategies in addition to sharing relevant learning experiences. The Task Force considers the feasibility of replicating this plan in other coastal communities. Additionally, EMA and the jurisdictions' Communications Managers will be responsible for relaying this information to the media and the public via public service announcements, town hall meetings, and community events.

Additional outreach efforts will include presenting the project highlights at the Chatham Hurricane Conference during 2020 and 2021.

D. PROJECT TIMELINE AND MILESTONES

- October 1, 2019 –November 30, 19; Completion of data collection/analysis, projected shoreline changes taking into account sea level rise predictions, structure inventory and determination of high hazard areas.
- December 1, 2019 –June 30, 2020; development of a list of priority structure that would be recommended for relocation.

- July 1 2020-September 30, 2020; Outreach and media announcements related to findings and presentation of these along with recommendations to Glynn County, City of Brunswick, and Jekyll Island Boards.

E. PROJECT MANAGEMENT

Glynn County will continue to serve as the lead agency in this project. The Emergency Management Agency Director, Jay Wiggins, will continue to serve as the main point of contact and liaison between all three jurisdictions. Glynn County Finance Office will track grant expenditures and provide project updates to the Coastal Management Program.

F.PROJECT BUDGET AND NARRATIVE AND STANDARD FORMS

Budget Categories	CIG Funds Requested (Federal)	Match Funds Provided (Non-Federal)	Total (Federal + Non-Federal)
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Supplies (Items < \$5,000)			
Subcontract	45,000		45,000
Construction			
Other			
Indirect			
TOTAL	45,000	59,547	104,547

Year Two

1.Personnel (Match)

-Jekyll Island Authority staff:

- Executive Director, project connectivity with ongoing Jekyll Island sea level rise protective measures, 10.40 hrs. @ \$95.53 per hour = \$993
- Director of Conservation, sea level rise natural habitat impacts, 41.60 hrs. @ \$30.11 per hour = \$1,253
- Chief Operations Manager, assessment of sea level rise on critical Jekyll Island structures, 20.80 hrs. @ \$45.46 per hour = \$945

- Land Conservation Manager, eco-friendly/green options to sea level rise hazard, 20.80 hrs. @ \$17.52 per hour= \$364
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- Research Specialist, sea level rise/shoreline change data 10.40 hrs. @ \$14.23 per hour = \$148

- Glynn County Staff

- Emergency Management Director (EMA), Project Lead and liaison, will coordinate all project related activities, 360 hrs. @ \$40.97 per hour = \$14,749
- Emergency Management Specialist to assist EMA Director in all aspects of the grant activities: meeting planning, data to consultant, etc. 240 hrs. @ \$20.22 per hour = \$4,853
- Director of Community Development and Planner to provide expertise in planning, zoning, and incorporation to the comprehensive plan 144 hrs. @ \$46 per hour = \$6,624
- Glynn County Engineer, shoreline protection methods to include natural and man-made barriers considerations 120 hrs. @ \$39.19 per hour= \$4,703
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Subcontract (federal request)

-Hire consultant services to complete *Sea Level Rise Response and Implementation Plan* @\$45,000 which was based on the most recent payment made to a consultant that created a similar report.