



GREATER
FARALLONES
ASSOCIATION

Bolinas Lagoon South End Living Shoreline Feasibility Study

Greater Farallones Association Request for Proposals

ISSUE DATE:
February 1, 2022

CORRECTED:
March 31, 2022

DEADLINE FOR SUBMISSIONS:
April 29, 2022 by 5:00 pm PST

Primary contact:
Sara Hutto, BolinasRFP@farallones.org

The Greater Farallones Association (GFA) seeks the services of a multidisciplinary team of professional consultants to prepare a Feasibility Study for the Bolinas Lagoon South End Living Shoreline Project. The study should identify feasible, cost-effective, and ecologically beneficial project designs for the southern shoreline of Bolinas Lagoon in Marin County, California.

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Summary

GFA is a 501(c)(3) nonprofit organization working in partnership with the National Oceanic and Atmospheric Administration (NOAA) Office of National Marine Sanctuaries (ONMS) to conserve the ecosystems of Greater Farallones, Cordell Bank, and northern Monterey Bay National Marine Sanctuary (GFNMS and CBNMS). GFA conserves the wildlife and habitats of the sanctuaries through community science, environmental education, and restoration activities. Through high-impact programs rooted in science, GFA engages adults and youth in ocean conservation; coordinates community members and students in the collection of critical data and research on globally-significant wildlife in the sanctuaries; restores vital habitats; and implements nature-based solutions to mitigating and adapting to the impacts of climate change.

The Bolinas Lagoon South End Living Shoreline Project is a joint project of GFA and GFNMS that aims to restore wetland, marsh and upland zones in areas with undeveloped uplands to provide vital feeding, nesting, and roosting habitat for migratory and resident birds, while enabling long-term marsh upslope migration for climate adaptation and resilience. GFA is seeking proposals from a firm or team to conduct and prepare a feasibility study for a project to restore tidal marsh/upland transitional habitat along the southern shoreline of Bolinas Lagoon in Marin County, California (**Exhibit A**). The study's intent is to investigate the feasibility of living shorelines to: 1) protect, enhance, and restore degraded and missing wetland transition zones, 2) reduce erosion and buffer against rising water levels, and 3) enable inland marsh migration within the context of long-term climate adaptation and coastal resilience of Bolinas Lagoon in the Greater Farallones National Marine Sanctuary (GFNMS).

The study will convene a cross disciplinary team with expertise in engineering, hydrology, coastal sediment, ecology, and biology to assess the feasibility of a fully 'green' multi-benefit natural infrastructure project and for preparing 30% designs for approximately 1 mile of tidal marsh/upland transitional habitat. GFA will make an award in the best interest of the project, project partners, and the lagoon after all evaluation criteria has been taken into consideration.

Financial support for this contract is being provided by the California Wildlife Conservation Board's Pacific Flyway Conservation grant program for projects that provide multiple climate adaptation and resilience benefits to protect, restore, or enhance migratory bird habitat associated with the Pacific Flyway. This project will be consistent with these principles and proposers should keep this aspect top of mind when developing and writing proposals for this solicitation.

Interested proposers are required to return all required documents as part of their submitted proposal. Up to **\$275,000** will be available under this contract. Proposals are due on **April 29, 2022 by 5:00 pm PST**. See the Schedule and Submission Information section for important dates including an opportunity for pre-submittal questions.

Schedule and Submission Information

Anticipated Schedule:

Release of RFP	February 1, 2022
Questions about this RFP due to GFA	March 15, 2022
RFP amendment posted to website	March 31, 2022
Proposal submittal deadline	April 29, 2022 by 5:00 pm PST

Evaluation of proposals and interviews	May - June 2022
Agreement awarded and contract executed; project begins	July 2022

Pre-Proposal Site Visit

There will not be a pre-proposal site visit.

RFP Questions

Proposers may submit written questions regarding this RFP. All questions must be emailed and received by **March 15th, 2022**. Questions asked after this date will not be considered. Submit all questions to Sara Hutto, Greater Farallones Association via email at BolinasRFP@farallones.org. The subject line shall read: RFP Questions – Bolinas South End Living Shoreline Feasibility Study. Phone calls will not be accepted.

Answers to all written questions concerning this RFP will be posted as an RFP Amendment on the Greater Farallones Association Bolinas RFP website (<https://farallones.org/BolinasRFP/>) on **March 31st, 2022**. It is the responsibility of all interested proposers to access the website for this information.

Proposal Submittal Requirements

Proposals are limited to 20 pages (1" margins, 11-point font, single spaced and numbered pages) for the narrative section of the proposal, excluding the cover letter, attachments, and resumes. Proposals should be submitted via email to:

Sara Hutto, Greater Farallones Association, (BolinasRFP@farallones.org)

Subject line: RFP Submission – Bolinas South End Living Shoreline Feasibility Study.

Proposals must be received by the above email no later than **April 29, 2022 by 5:00 pm PST**. The proposal must be submitted in the name of the agency or person who will contract with GFA to complete the study. Once received, proposals and all their exhibits, attachments, and enclosures information therein become property of GFA. Any change to this RFP will be made only by written addendum and posted to the Greater Farallones Association website (<https://farallones.org/BolinasRFP/>). It is the responsibility of all interested proposers to access the website for this information.

Contract Term

The contract shall be effective on the contract execution date for **18 months**, beginning **July 2022** and ending ~~February 2023~~ **January 2024**.

Proposal Content Requirements

All proposals must include the following:

1. Cover Letter

Provide a cover letter summarizing the proposal for consideration and the estimated cost. The person who will contract with GFA to complete the study should sign the cover letter on behalf of the team.

2. Consultant Qualifications

Provide a description and history of your organization/agency. Include a description of your firm's overall experience in handling projects similar in character or scope to this project. Include only projects associated with team members assigned to this project and describe their direct involvement. Also include any past experience working with the U.S. Army Corps of Engineers. List of references from at least three (3) similar projects, including the client name, address, project value, phone number, and contact person so GFA may contact references.

3. Staff Qualifications

Provide names and qualifications of all team members and an organizational chart clearly identifying the roles of each individual who will be working on the project. For each task, indicate how the work will be distributed amongst team members by identifying the percentage of time that will be allocated to each team member, to total 100% per task. Diversity and Inclusion are important to GFA. State how your team will incorporate these principles in all project and partnership work. Provide resumes for each team member (up to two pages) as an attachment at the end of the proposal.

Team members shall not change without written notification to and approval by GFA.

4. Project Approach and Understanding

Discuss the overall approach that will be used to execute this project. Provide an explanation of your understanding of the tasks necessary to accomplish the goals and tasks outlined in this RFP, including where a proposed alternative or additional approach would be preferable to enhance project outcomes. This section must also:

- a. Discuss how the project can create functional wetland-upland transition zones where it is degraded or absent using natural materials and native plants to reduce erosion and flooding in the short-term and enable long-term marsh migration that improves the Bolinas Lagoon ecosystem's resilience and adaptability to climate change.
- b. Discuss specifically how the project will seek to protect, restore, or enhance habitat, improve habitat diversity, quality and connectivity, and improve management, ecological function, and biodiversity of habitat. Include specific migratory and resident bird habitats as well as federal and state listed species and their potential habitat.
- c. Demonstrate a working knowledge of current state-of-the-art science, design and best practices in living shoreline creation, illustrating the team's experience with green infrastructure in coastal areas and plan for developing fully 'green' designs on the South End.

5. Project Schedule

- a. Include a proposed project schedule with an estimation of milestone delivery date based on tasks and identify all assumptions and constraints on which the project schedule is based.
- b. Estimate hours required to perform the tasks and subtasks, broken down by each staff member involved in the project.

6. Cost Proposal Summary

Outline how much the feasibility study will cost GFA, including a detailed breakdown of deliverables, not to exceed \$275,000. Provide for all facilities, products, labor, materials, tools, delivery, transportation, food, lodging, and other services necessary to perform the work required to execute this RFP.

7. Attachments

Include any maps, diagrams, or exhibits as necessary.

Project Background

Bolinas Lagoon in Marin County, California is a 1,100-acre tidal estuary and major stopover on the Pacific Flyway (**Exhibit A**). The lagoon's rich ecosystem contributes to its many designations including: a Ramsar Wetland of International Importance; part of Greater Farallones National Marine Sanctuary; a Western Hemisphere Shorebird Research Network site of regional importance; and an Audubon Important Bird Area. Extensive channels, mudflats, marsh, and riparian areas in the lagoon provide rich foraging, breeding, and/or wintering habitat for 50,000 migratory birds and 245 resident bird species; seven species of birds identified by the California State Wildlife Action Plan as species of

greatest concern within the state's marine province; and 23 rare, endangered, or threatened bird species.

Hardening of the shoreline in portions of the lagoon has impacted tidal-terrestrial transition zones, limiting the ability of the lagoon's tidal habitats to expand landward and migrate upslope in response to sea level rise. Without intervention, mid-sea level rise projections predict dramatic decline in the lagoon's wetlands by 2050, with complete inundation of high and mid-marsh by 2100,¹ with significant negative consequences for marsh-dependent species.²

The south end is one of the only remaining stretches of lagoon shoreline with contiguous upland space (>100ft wide) suitable for marsh migration and amenable to nature-based restoration (**Exhibit B**). Key areas of concern along the Potential Project Area (see black dotted line and blue circles in **Exhibit B**) include: (1) wetland and tidal marshes that are increasingly inundated during high tide and storm events that often overtop the shoreline and flood the adjacent Calle Del Arroyo Road, and (2) a ~1-mile section of eroding shoreline composed of loose dredged material adjacent to Dipsea Road. Both areas contain degraded wetland and marsh habitat adjacent to unnaturally steep, eroding shoreline with poor alongshore connectivity. Nearby healthy habitat will be used as a reference area and potential design model for the eastern shoreline (white dotted line in **Exhibit B**).

The Bolinas Lagoon South End Living Shoreline Project was identified in a local collaborative planning process in 2008, as an opportunity to employ an approach to improving ecosystem function in Bolinas Lagoon.³ Regionally, this project was prioritized in the GFNMS Coastal Resilience Sediment Plan as a model for "the sanctuary's approach to addressing coastal resilience within its boundaries" and a priority for implementation within the next 10 years due to its transferability to estuarine ecosystems facing similar impacts.⁴

Project Goals and Objectives

The primary goals for the overall project are as follows:

1. Improve overall ecological health and function of Bolinas Lagoon by restoring natural sediment transport and connecting existing shoreline habitats that provide important transitional zones for wildlife;
2. Restore wetland processes and functions along the southern shore of Bolinas Lagoon;
3. Create habitat connectivity to increase resident and migratory bird abundance and diversity along the Pacific Flyway;
4. Strengthen natural processes and provide sea level rise adaptation that improves coastal species resilience and adaptation to minimize the impacts of climate change;

¹ Thorne K., G. MacDonald, G. Guntenspergen, R. Ambrose, K. Buffington, B. Dugger, C. Freeman, C. Janousek, L. Brown, J. Rosencranz, and J. Holmquist, (2018). US Pacific coastal wetland resilience and vulnerability to sea-level rise. *Science Advances*, 4(2), pe aao 3270. <https://doi.org/10.1126/sciadv.aao3270>

² Marin County, (2018). *Marin Ocean Coast Sea Level Rise Adaptation Report*. A report of the Collaboration: Sea-Level Marin Adaptation Response Team and the Marin County Community Development Agency. Marin, California. 221 pp. Available at:

<https://www.marincounty.org/-/media/files/departments/cd/planning/slr/c-smart/2018/att2csmartadaptationreportmg.pdf?la=en>

³ Gulf of the Farallones National Marine Sanctuary Advisory Council working group, (2008). *Bolinas Lagoon Ecosystem Restoration Project: Recommendations for Restoration and Management*. NOAA. San Francisco, CA 102pp. Available at: <https://farallones.org/wp-content/uploads/2020/12/Locally-Preferred-Plan.pdf>

⁴ Greater Farallones National Marine Sanctuary, Kordesch, W.K., M. Delaney, S. Hutto, M. Rome, and S. Tezak, (2019). *Coastal Resilience Sediment Plan*. Report of Greater Farallones National Marine Sanctuary. NOAA. San Francisco, CA. 104 pp. Available at:

<https://nmsfarallones.blob.core.windows.net/farallones-prod/media/docs/20191101-coastal-resilience-and-sediment-plan.pdf>

5. Implement a community-supported design for a multi-benefit nature-based living shoreline.

In support of those goals, the preliminary objectives for this RFP are as follows:

1. Characterize existing conditions within the study area;
2. Identify fully 'green' potential project designs based on opportunities and constraints within the ecosystem;
3. Evaluate beneficial and adverse ecological impacts of an approved suite of project designs;
4. Identify measures to prevent and/or mitigate negative impacts;
5. Evaluate the engineering feasibility and economic costs for each project design and mitigation measures;
6. Identify a preferred design and project description for further planning.

Project Specifics

The overall approach to this project is partnership-based, and will leverage the best available science and current understanding of living shoreline concepts to develop a healthy shoreline that preserves ecosystem benefits and improves the ecological health of Bolinas Lagoon. An interdisciplinary team of planners, biologists and engineers is required to accomplish the objectives of the project, along with local stakeholders and federal, state, and local governmental agencies.

Encompassing 1.5-miles of shoreline along southern Bolinas Lagoon adjacent to Marin County's Seadrift and Stinson Beach communities, the project area lies within the jurisdictions of GFNMS, Marin County, and private land owned by the nonprofit Audubon Canyon Ranch, the Seadrift Homeowners Association, and individual homeowners. Preliminary community engagement by GFA on current and future climate change impacts to the Bolinas shoreline have yielded a high level of interest and support for the project goals, general concept, and underlying principles of nature-based solutions and climate adaptation measures.

A Technical Memo completed for GFA in 2019 summarized existing data on shoreline conditions, provided initial confirmation of a living shoreline as a suitable measure to implement on the south end of Bolinas Lagoon, and identified a number of data gaps to incorporate in a feasibility study (See the Supporting Materials section and the accompanying Important Note).

Project results will be consistent with Marin County² and GFNMS climate adaptation planning documents.^{3,5,6}

Team Structure

The selected Feasibility Study Consultant will be part of a broader project team coordinated and managed by GFA. The team includes the following:

- **GFA** - Project Lead; will communicate goals, manage the Feasibility Study Consultant and provide ongoing updates to project partners and landowners. GFA will additionally conduct agency and community outreach, soliciting input and feedback on project designs and ongoing project guidance at agency, stakeholder, and local community meetings.
- **GFNMS** - Project partner and lead on all required documentation to comply with the National Environmental Policy Act (NEPA); will ensure the project is designed to achieve federal

⁵ Greater Farallones National Marine Sanctuary, Hutto, S.V., (2016). Climate-Smart Adaptation for North-central California Coastal Habitats. Report of the Climate-Smart Adaptation Working Group of the GFNMS Advisory Council. San Francisco, CA. 47 pp. Available at:

<https://nmsfarallones.blob.core.windows.net/farallones-prod/media/archive/manage/climate/pdf/Climate-SmartAdaptationReport.pdf>

⁶GFNMS (2020). Climate Change Impacts Profile. Report of the Greater Farallones National Marine Sanctuary. NOAA. San Francisco, CA. Available at: <https://farallones.noaa.gov/manage/climate/impacts.html>

compliance and timely issuance of any permits required from the Greater Farallones National Marine Sanctuary.

- **Marin County** - Project partner and landowner within the project area; will provide staff comments and feedback on project deliverables and coordinate on required permitting and approvals, as well as access to Marin County Parks land for site assessments.
- **Audubon Canyon Ranch** - Project partner and landowner in the project area; will provide assistance from biologist with expertise in Bolinas Lagoon. Will provide comments and feedback on project deliverables, as well as access to land for site assessments.
- **Seadrift Homeowners Association** - Project partner and landowner in the project area; will act as liaison between the project team and Seadrift homeowners with property within the project area. Will provide comments and feedback on project deliverables, as well as access to Seadrift land for site assessments.

Scope of Services

The Feasibility Study schedule runs approximately 18 months, beginning June 2022 and ending February 2023. The final scope of work will be subject to refinement and mutual agreement following further discussion between GFA and the selected consultant. The consultant shall complete the following tasks, and proposals must provide a description and timeline of how each task will be accomplished:

Task 1. Project Management

Overall project management and coordination will require clear communication and open collaboration with the broader project team to remain on budget and schedule. The consultant will schedule monthly coordination meetings that convene GFA and the full team of project consultants as well as quarterly meetings that include project partners. The consultant will provide deliverables in advance of each meeting for review and discussion. Meetings will include updates on project progress and schedule, solicit feedback, and outline immediate next steps, tasks, and deliverables.

Deliverables:

- Monthly and quarterly progress reports that include: Schedule status/update (tracking actual versus planned progress), Problems and resolutions, Work remaining, Responsible parties, Priorities, Anticipated problems, Budget status and analysis.

Task 2. Project Communication

At key points throughout the project, meetings with agency staff, key stakeholders, and community members will be set up to ensure all parties are apprised of critical project milestones and are included in project decisions.

Task 2.1 Support Technical Engagement

The consultant will work closely with GFA to provide opportunity for technical assistance, agency feedback, and ongoing project guidance at key inflection points in the project process. The consultant will work with GFA to determine scope of content and then develop and present at least two unique, individual presentations at key points in the project to be delivered at technical meetings which may include the North-central California Coastal Sediment Coordination Committee and other agency meetings. Consultants may be asked to deliver each presentation at more than one event or meeting, and the number will be determined by the need to develop a project design that can meet the standards of potential subsequent approval from all landowners and agencies with legal jurisdiction (See Task 4).

Deliverables:

- Two individual presentations and digital copies of presentations

Task 2.1 Support Community Engagement

The consultant will work closely with GFA to ensure accurate information is delivered to stakeholders and the interested public. GFA will identify specific public outreach actions, including two written project updates, three individual presentations, and provide information to GFA in developing outreach products such as providing figures, charts and graphs for a fact sheet or web story. The consultant shall lead on developing and delivering presentations within parameters established by GFA, and subject matter will include preparing and delivering information on project background, potential project designs, updates on project designs after agency feedback. Consultants may be asked to deliver each presentation at more than one event or meeting, and the number will be determined by the need to develop a project design that can meet the standards of potential subsequent approval from all landowners and agencies with legal jurisdiction (See Task 4). GFA will host meetings, provide event advertising, e-meeting platforms and meeting venues, and media technology as well as creative engagement activities and tools for soliciting input. The consultant will evaluate findings from these meetings and events for efficacy and relevance, providing analysis and advice to GFA and project partners regarding incorporation as project design criteria.

Deliverables:

- Two written project updates
- Three individual presentations and digital copies of presentations
- Visuals and/or materials distributed during public meetings

Task 3. Complete a Feasibility Study

The consultant will investigate the feasibility of a nature-based living shoreline along the southern shore of Bolinas Lagoon. Specifically, the consultant will further evaluate existing site conditions and site history, identify opportunities and constraints for designs, and develop at least three preliminary project designs and cost estimates. Anticipated subtasks and affiliated deliverables are below; however, proposers may suggest other methodologies, provided they demonstrably meet or exceed project objectives. A complete Feasibility Study is required as the final deliverable.

Task 3.1 Evaluate Existing Conditions and Conduct a Site Assessment

The consultant will begin by reviewing relevant literature and reaffirming project description, goals, and objectives. They will then compile and evaluate existing datasets to identify current gaps in understanding and conduct detailed field surveys of the proposed project area and reference area to establish a resource library that assesses the site and outlines its existing conditions. Surveys to be conducted may include (but are not limited to):

- Topographic and Marsh Vegetation Survey including quantifying the vegetation communities and wetlands by type
- Habitat Assessment and Wetland Delineation
- Biological Resources Assessment including a survey and query of known and potential species that may be present, both flora and fauna
- Refined Water Level Analysis with climate scenarios, adaptation criteria, and potentially including groundwater and lagoon salinity Monitoring
- Hydrodynamic Modeling and Erosion Study
- Sediment Sampling and Analysis Plan
- Cultural and Historical Resource Analysis
- Property Line Survey

The consultant will refine this list and outline the sequencing, purpose, cost, and outcome of each survey in their proposal.

The consultant will incorporate environmental findings of a 2019 Technical Memo that summarized existing data on shoreline conditions and provided initial confirmation of a living shoreline as a suitable measure to implement on the south end of Bolinas Lagoon (See the

Supporting Materials section and the accompanying Important Note). The consultant will also incorporate newly available research findings and data including lidar and fine-scale vegetation mapping (See the Supporting Materials section), existing sediment grain size analyses in the project area, and existing biological monitoring data in the project area from the GFNMS-GFA Beach Watch community science program.

Additionally, the consultant will work with landowners to develop a draft Memorandum of Agreement to be finalized by all partners prior to the end of the contract period. The draft will include a governance structure outlining partner commitment to project completion, and cite all operating laws, regulations, procedures, permit requirements, and permittee roles. The draft will determine roles and responsibilities regarding project funding, management, and land-use allowances during and after project planning, implementation, and monitoring. Elements must include: land use permissions (agreed upon easements, titles, rites of way etc.) regarding access, equipment use and staging, end of construction monitoring and future land use allowances. All project landowners are project partners, are aware of this task, and are committed to supporting its development.

Deliverables:

- Project base maps and reports incorporating new and existing data
- Draft Memorandum of Agreement
- An organized set of all GIS files each including a summary, description, credits, use limitation, extent, and scale range.

Task 3.2 Develop Preliminary Project Designs

The consultant will first integrate results from previous tasks to develop a systematic overview of the project area and identify the opportunities and constraints for habitat creation and mitigation activities. The consultant will then identify at least three preliminary project designs based on the opportunities and constraints and prepare a description and analysis that includes:

- Preliminary designs with conceptual grading plans, typical cross-sections, and habitat elevation bands. Designs must include how a recreational trail along the shoreline will be maintained (orange dotted line in **Exhibit B**) as well as plans for maximizing wildlife, bird habitat, native vegetation.
- A description of each design, including (but not limited to) hydrology, mix of habitat types, environmental benefits and impacts, and resulting changes in habitat quantity and quality. Each description shall include a table summarizing pre- and post-project habitat types, extent, and area, as well as a way for project designs to evaluate potential direct and indirect impacts both positive and negative to existing habitats and the ecosystems that they support.
- An evaluation of projected storm surge/sea level rise impacts and long-term adaptive management strategies and timeline for phasing activities.
- An evaluation of long-term maintenance and monitoring needs.
- Funding options and estimated costs, including estimates for design, engineering, environmental review, acquisition of privately held land, permitting, construction, construction management, long-term management, maintenance, and monitoring costs (10 years).
- Identification of all required permits; enumeration of land ownership and management authorities affected by preliminary project designs; and delineation of permit applicants.
- A comprehensive evaluation comparing and ranking designs, including (but not limited to) engineering feasibility, permitting feasibility, lifespan, cost, and effectiveness at achieving project goals.

Throughout Task 3 as project designs evolve, GFA and the consultant will engage agencies on the permitting process to ensure environmental review compliance in preparation of NEPA/CEQA.

Prior to completion of the Feasibility Study the consultant will present, discuss, and incorporate findings and recommendations first to GFA and project partners, then with agencies and technical experts, and then with a draft to be scoped with community stakeholders for feedback (See Task 2). The consultant will work with GFA and project partners to incorporate feedback into the final report. Designs will be weighed against evaluation and performance criteria that will be developed by GFA, the consultant, and project partners such as engineering feasibility and cost, design effectiveness and lifespan, adaptability to sea-level rise, habitat benefits, public access, environmental access, and permitting feasibility.

Deliverables:

- Opportunities and Constraints Report
- Draft Project Design Evaluation Report for feedback
- Final Project Design Evaluation Report
- An organized set of all GIS files each including a summary, description, credits, use limitation, extent, and scale range.

Task 4. Preliminary Design Report and 30% Design

GFA will then work with GFNMS and project partners to select preferred project design and finalize a Project Description. Once the preferred design has been selected, the consultant will integrate results from all previous tasks to develop a Preliminary Design Report including (but not limited to) the following components:

- Evaluation of Project Setting, compiling existing conditions, site history, coastal hydrology and morphology, site topography and bathymetry, sediment sampling, biological resources, and climate change and sea level rise impacts
- Summary of Preliminary Project Designs, including designs considered, designs rejected, and justification for selected design
- Preliminary Engineering Design, with 30% conceptual designs and analysis of design element options, including: a project description summary, placement and construction plans, potentially affected coastal resources, and an engineer's estimate of probable construction costs. This component must also include plans for maximizing wildlife and bird habitat as well as native vegetation selection and management.
- Recommendations for Avoidance and Impact Minimization Measures
- Recommendations for Potential Funding Sources

As in Task 3, prior to report completion the consultant will present, discuss, and incorporate findings and recommendations with GFA and project partners, agencies and technical experts, and community stakeholders for feedback (see Task 1 and 2).

Additionally, the consultant will prepare two resources:

- A Regulatory Strategy, identifying actions that may trigger permit applications, agency consultations, and formal landowner approvals, and a timeline with dates for when information is required to be submitted. Developing this strategy will involve communications with relevant agencies and may reference the regulatory roadmap in ESA 2021 (Chapter 5 Appendix; See Supporting Documents).
- A preliminary long-term Monitoring and Reporting Plan, that develops a system for evaluating project effectiveness based on: agreed-upon project goals and objectives, evaluation performance metrics, outcome thresholds, and biological and physical monitoring requirements of regulatory agencies.

Deliverables:

- Preliminary Design Report
- 30% Design
- Regulatory strategy
- A long-term Monitoring and Reporting Plan

Next Steps

Upon completing the necessary components of this RFP, GFA will draft a second RFP with input from project partners to hire a consultant to lead environmental review and permitting, including: permit application processes, developing final designs, and planning for the construction phase. Consultants selected for this RFP may apply to lead the next phase.

Supporting Materials

This section provides links to reports, maps and other documentation meant to provide more context for the justification and design of this project. These are not meant to be inclusive of all information relevant to the design of the project.

Project Materials:

- Technical Memo completed in 2019 characterizing existing shoreline conditions, future potential impacts, and initial confirmation of a living shoreline as a suitable measure to implement on the south end of Bolinas Lagoon. **Important Note:** While this memo contains useful information for proposers, there have since been significant project updates in the scope and goals of the project to note. The project area is now strictly focused on natural shoreline habitat development and nature-based sea level rise adaptation strategies. The project is now conscribed to wetland-upland areas, involving enhancing shoreline habitat through natural solutions. The memo includes several points of discussion focusing on roads, roadway design, and concept level design strategies that include traditional ‘gray’ infrastructure, hardscape, and hybrid components that are now obsolete and should not be considered by the Proposers for this project. Proposers should take care to note these updates when reading the memo and refer to the Project Goals section for up to date information on the focus of this project. Available at: https://farallones.org/wp-content/uploads/2021/12/Technical-Memo_Final_Updated_Addendum.pdf
- Newly available lidar and fine-scale vegetation mapping data that will improve estimates of marsh elevation and sea-level rise impacts. 2018 Marin Countywide Fine Scale Vegetation Map, Tamalpais Lands Collaborative (One Tam). Available at: <https://tukmangeospatial1net.sharepoint.com/sites/TukmanGeospatialLLC/Shared%20Documents/Forms/AllItems.aspx?id=%2Fsites%2FTukmanGeospatialLLC%2FShared%20Documents%2FGeneral%2FProject%20Reports%2FFinal%20Report%20and%20Accuracy%20Assessment%20%2D%202018%20Marin%20Countywide%20Fine%20Scale%20Veg%20Map%2Epdf&parent=%2Fsites%2FTukmanGeospatialLLC%2FShared%20Documents%2FGeneral%2FProject%20Reports&p=true>
- Recordings of a GFA-hosted online webinar series celebrating Bolinas Lagoon, with the April 13th, 2021 event titled “Helping Nature Take Its Course” focused on living shorelines and the South End Living Shorelines Project. Available at: <https://farallones.org/bolinas/an-afternoon-at-the-lagoon/>
- Fact sheet created for outreach and community engagement purposes. Available at: https://farallones.org/wp-content/uploads/2020/12/FINAL_COMPLETED_Nov_16_20_Bolinas-One-Pager.pdf

Supporting Documents:

- Gulf of the Farallones National Marine Sanctuary Advisory Council working group, (2008). Bolinas Lagoon Ecosystem Restoration Project: Recommendations for Restoration and Management. NOAA. San Francisco, CA 102pp. Available at: <https://farallones.org/wp-content/uploads/2020/12/Locally-Preferred-Plan.pdf>
- Greater Farallones National Marine Sanctuary, Kordesch, W.K., M. Delaney, S. Hutto, M. Rome, and S. Tezak, (2019). Coastal Resilience Sediment Plan. Report of Greater Farallones National Marine Sanctuary. NOAA. San Francisco, CA. 104 pp. Available at: <https://nmsfarallones.blob.core.windows.net/farallones-prod/media/docs/20191101-coastal-resilience-and-sediment-plan.pdf>
- Greater Farallones National Marine Sanctuary, Hutto, S.V., (2016). Climate-Smart Adaptation for North-central California Coastal Habitats. Report of the Climate-Smart Adaptation Working Group of the GFNMS Advisory Council. San Francisco, CA. 47 pp. Available at: <https://nmsfarallones.blob.core.windows.net/farallones-prod/media/archive/manage/climate/pdf/Climate-SmartAdaptationReport.pdf>
- Marin County, (2018). Marin Ocean Coast Sea Level Rise Adaptation Report. A report of the Collaboration: Sea-Level Marin Adaptation Response Team and the Marin County Community Development Agency. Marin, California. 221 pp. Available at: <https://www.marincounty.org/-/media/files/departments/cd/planning/slr/c-smart/2018/att2csmartadaptationreportmq.pdf?la=en>
- Philip Williams & Associates, (2006). Projecting The Future Evolution Of Bolinas Lagoon Final Public Draft Prepared for Marin County Open Space District with funding from The California Coastal Conservancy. Available at: <https://nmsfarallones.blob.core.windows.net/farallones-prod/media/archive/eco/bolinas/pdf/projectingfuture.pdf>
- Environmental Science Associated (2021). Stinson Beach Nature-Based Adaptation Study Final Public Draft Prepared for Marin County Open Space District with funding from The California Coastal Conservancy. Available at: <https://www.marincounty.org/depts/cd/divisions/planning/csmart-sea-level-rise/marin-coast-adaptation-planning>
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Selection Process

Award of proposal will be made to the most advantageous proposal based on GFA's consideration of the Evaluation Criteria outlined below. GFA will establish an Evaluation Committee to review proposals received and GFA will make a final award in the best interest of the project after all review has been taken into consideration.

Proposer interviews may be conducted with proposers who submit proposals determined to be eligible for being selected for an award.

Evaluation Criteria

- (30%) Team qualifications, including relevant individual experience in performance of comparable work.
- (40%) Proposal – quality, completeness, and understanding of the project.
- (15%) References
- (10%) Interview
- (5%) Minority or Women Owned Business AND/OR Local Business

Contract Terms

The contract term shall be for 18 months, beginning once both parties have signed the Contractor Agreement (estimated start date of **July 1, 2022**).

Invoicing and Payment

Invoices shall be submitted monthly detailing staff hours by task and documented direct expenses incurred by the consultant. GFA will pay the consultant within 30 days of approval of the invoice.

Subcontracting

The consultant shall not assign the resulting contract or any part thereof without the prior written consent of GFA.

Labor Code Requirements; Prevailing Wage

Consultant shall comply with California Labor Code requirements, as well as San Francisco wage ordinance, if applicable. Consultant shall pay prevailing wage to all persons employed in the performance of any part of the Project if required by law to do so.

Informational Products

Consultant assigns to GFA all patent, copyright, and trade secret rights in anything created or developed by the consultant for GFA under this contract. All informational products (e.g. data, studies, findings, management plans, manuals, photos etc.) relating to California's natural environment and produced with the use of public funds shall be cataloged in the California Geoportal (<https://gis.data.ca.gov>), maintained by the California Department of Technology.

Non-Discrimination

GFA aims to foster inclusivity, justice, and equity within our organization and in the broader field of environmental conservation. We acknowledge the significant barriers that early-career Black, Indigenous, and People of Color (BIPOC) individuals face in pursuing careers in marine science and making their voices heard in environmental policy.

During the performance of this contract, Consultant shall not unlawfully discriminate against, harass, or allow harassment against any employee or applicant for employment because of race, religion, color, national origin, ancestry, physical disability (including HIV and AIDS), mental disability, medical condition, marital status, age (over 40), sex, sexual orientation, or use of family-care leave, medical-care leave, or pregnancy-disability leave. Grantee shall take affirmative action to ensure that the evaluation and treatment of its employees and applicants for employment are free of such discrimination and harassment. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. Grantee shall comply with the provisions of the Fair Employment and Housing Act (Government Code Section 12900 (a-f) et seq.), and applicable regulations (California Code of Regulations, Title 2, Section 7285 et seq.). The regulations of the Fair Employment and Housing Commission regarding Contractor Nondiscrimination and Compliance (Chapter 5 of Division 4 of Title 2 of the California Code of Regulations) are incorporated by reference into this Agreement. Grantee

shall give written notice of its obligations under this non-discrimination clause to labor organizations with which Grantee has a collective bargaining or other agreement and shall post in conspicuous places available to employees and applicants for employment, notice setting forth the provisions of this section. Grantee shall also include the nondiscrimination and compliance provisions of this Agreement in all contracts related to the Project.

Exhibits

Exhibit A – Regional Location Map

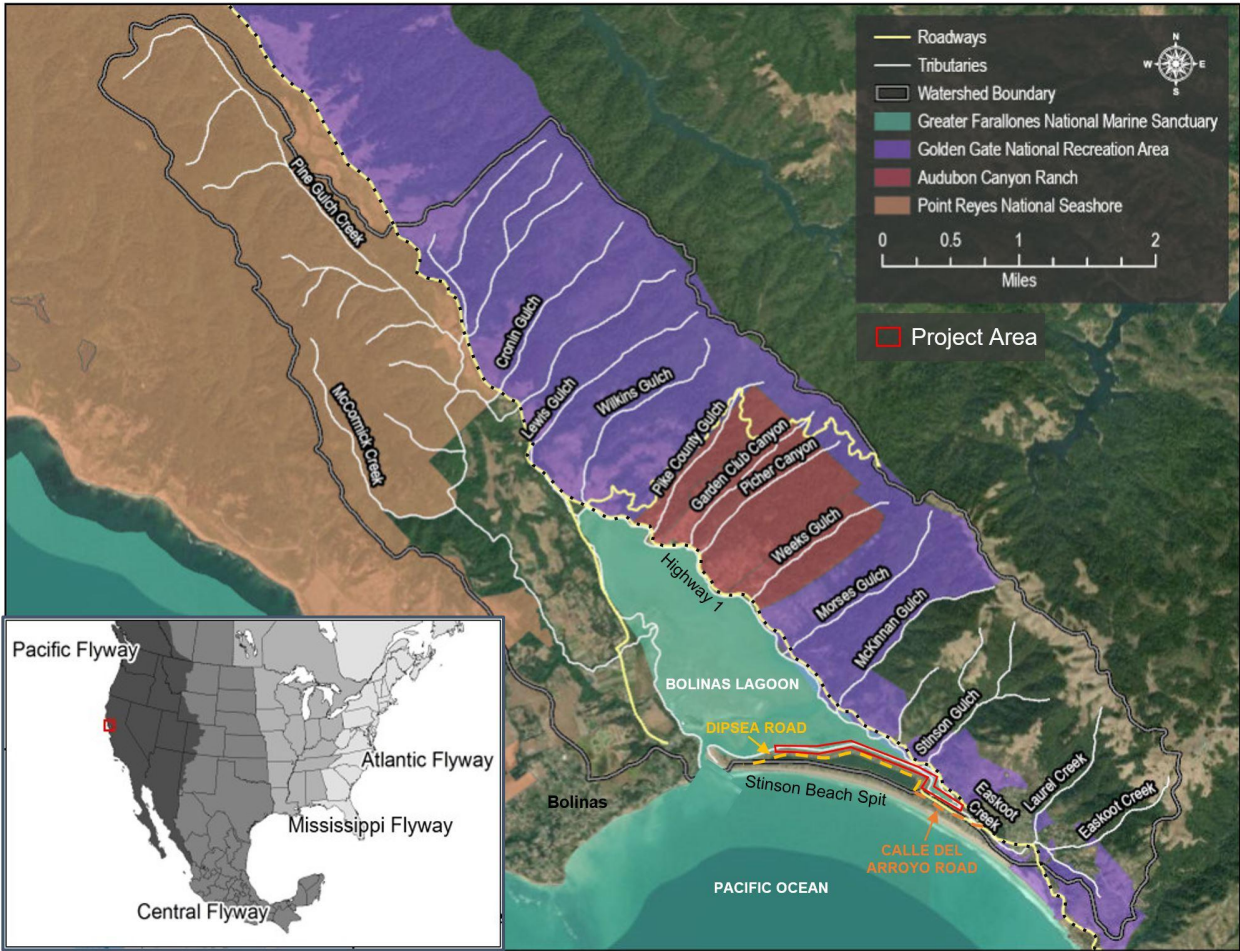


Exhibit B – Project Area Map

