

EXHIBIT A

SCOPE OF WORK
(Local Coastal Programs)

1. Grantee agrees to expend grant funds provided by the Commission only for and in accordance with project activities as described under the Scope of Work attached hereto as EXHIBIT A.
2. The Project representatives during the term of this agreement, and the person authorized to sign grant amendments and RFFs on behalf of the grantee, will be:

State Agency: California Coastal Commission	Grantee: City of Oceanside
Name: Kelsey Ducklow ("Grant Manager")	Name: Jonathan Borrego, City Manager
Address: 455 Market St. Suite 200, Room 228 San Francisco, CA 94105	Address: 300 N. Coast Highway, Oceanside, CA 92054
Phone: (415) 904-2335	Phone: (760) 435-3918
Email: kelsey.ducklow@coastal.ca.gov	Email: jborrego@oceansideca.org

3. Primary project contact:

State Agency: California Coastal Commission	Grantee: City of Oceanside
Section/Unit: Statewide Planning Unit	Section/Unit:
Name: Karen Vu, Environmental Scientist	Name: Jayme Timberlake, Coastal Zone Administrator
Address: 455 Market Street, Suite 200, Room 228, San Francisco, CA 94105	Address: 300 N. Coast Highway, Oceanside, CA 92054
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SCOPE OF WORK

Name of Local Government: City of Oceanside

Name of Project: RE:BEACH Baseline Monitoring Program

Funding Source: General Fund

Specific Program: Local Coastal Program Local Assistance Grant Program

Federal Tax ID#: 951688570

Budget Summary:

CCC funding:	\$1,835,000
<u>Other funding:</u>	<u>\$276,929</u>
Total project cost:	\$2,111,929

Term of Project: *June 1, 2025 (or grant agreement execution date) – December 31, 2027*

A. PROJECT DESCRIPTION

The focus of this grant includes tasks associated with the development of a comprehensive Baseline Monitoring Program which will support an update to the City's Vulnerability Assessment, provide an addendum to the Coastal Hazards Adaptation Plan, inform a targeted change to the LCP, and support implementation efforts for RE:BEACH Oceanside (see Section 3). Completion of these data collection tasks will assist the City in 1) developing a more thorough understanding of current coastal conditions that will enhance and inform existing planning document, and 2) implementing the RE:BEACH Oceanside pilot project (proposed Pilot Project), which proposes to adapt our coastline to sea level rise and climate change by increasing coastal resiliency and maintaining and protecting public beaches which serve as a natural shoreline protective buffer that supports a sustainable, healthy, and resilient environment for all. Importantly, it is understood that the RE:BEACH project (and/or any relevant components of the overall proposal) will require a future coastal development permit (CDP) or permits. Regardless of the eventual permitting process and outcome for RE:BEACH, the baseline monitoring program will provide valuable information for implementation of any future adaptation strategies along the Oceanside shoreline.

The City's coastal planning process was initiated in 2016 with a Coastal Hazards Vulnerability Assessment (VA) (draft completed in 2018) and Coastal Hazards Adaptation Plan (AP) (draft completed in 2019), both of which were done in pursuit of a comprehensive update to the City's LCP LUP, which was originally certified by the California Coastal

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Commission (CCC) in 1986. The VA (ESA 2018) identified sites susceptible to damage from coastal flooding now and potentially in the future and was followed by the City's Draft AP that presented approaches to address potential vulnerabilities (ESA 2019). The City's Draft LCP LUP was informally submitted to the CCC for comment and review in January 2020 and remains an in-progress working draft. Completion of the VA, draft completion of the AP and draft completion and (informal) submittal of the LCP LUP, represent the beginning of the phased, long-term planning and adaptation efforts to advance coastal resiliency in the City. These documents outline a path forward for the City to reduce risks from, and exposure to, coastal hazards. The City's coastal resiliency planning efforts are ongoing as the understanding of the dynamic interplay among variables in climate science, including greenhouse gas emissions scenarios and sea level rise predictions, continue to evolve. In addition to this, the City has invested significant time and resources into addressing decades long coastal erosion issues through leading the Phase 1 Beach Sand Feasibility Study and the (Phase 2) RE:BEACH Oceanside pilot project, coordination with the U.S. Army Corps of Engineers (USACE) Oceanside Mitigation Study, supported a review of the Oceanside Littoral Cell and Regional Sediment Management Plan with SANDAG's new Oceanside Littoral Cell Sediment Management Taskforce, among other local and regional efforts.

The proposed next steps will advance coastal resiliency in the context of LCP planning and begin steps towards pilot project implementation including:

- Completing technical analyses that will assist in understanding, planning for, and adapting to climate change and sea level rise through ongoing shoreline monitoring
- Advancing phased adaptation/adaptation pathways for a shoreline management strategy
- Focused outreach to increase public awareness and participation in sea level rise planning among vulnerable communities to support environmental justice

The Baseline Monitoring Program will provide a robust dataset to understand the existing conditions of the shoreline and incorporate current surveys conducted by community science-led efforts by Save Oceanside Sand and processed into a coastal database by Scripps Institution of Oceanography; aerial unmanned aerial vehicle (UAV) surveys of the back beach; bathymetric surveys of the nearshore; offshore oceanographic data collection; an assessment of surf conditions; biological assessments of the intertidal and offshore habitat; and a quantitative assessment of beach usage around the pilot project site.

B. TASKS

Task 1 – Project Management

Project management and coordination by City Staff or their designated consultant will continue throughout the Project. This task includes meetings and ongoing coordination with the Project

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Team, City Team and decision-makers as required to move the Project forward efficiently, as well as a kickoff meeting. It is expected that grant funds for associated Project Management will be utilized to build City staff capacity.

Monthly progress reports and invoices will be prepared to satisfy the grant requirements.

- **Deliverables:**
 - Monthly invoices and progress reports

Task 2 – Shoreline Change Monitoring

Comprehensive monitoring for the subaerial beach and seafloor surface is considered necessary in order to identify significant changes in response to the implementation of the proposed Pilot Project or large storm and wave events. This necessitates detailed shoreline monitoring from Oceanside Harbor to the Agua Hedionda Lagoon/Tamarack jetties. This substantial effort will allow for the observation and assessment of any direct or indirect impacts to the shoreline's condition.

- *Task 2.1 - Subaerial Beach Monitoring:* Current subaerial monitoring is being conducted by Save Oceanside Sand, a local community volunteer group, through the usage of a real-time kinematic (RTK) unit to survey along the pre-established MOP transects on a monthly basis. While effective in capturing the shoreline's profile change over time, the limitations of this data product constrain its utilization. While the consultants will continue to assist as-needed in this current effort, quarterly unmanned aerial vehicle (UAV) surveys will also be initiated for a more detailed assessment of the dry beach area. These survey events will be conducted during low tide conditions in order to capture the driest beach area available. This enhanced dataset will provide more, high quality data products that are easily accessible to the public. The results of these UAV surveys can then be easily utilized for comprehensive surface change analyses after the implementation of the proposed Pilot Project or extreme events. This will allow for an assessment of the performance of the proposed Pilot Project over time as the shoreline adjusts to the new feature. Also, in order to capture the shoreline's response to notable events, such as beach nourishment or large storm events, up to four event-based survey events per year will be conducted. These will occur pre- and post-event in order to evaluate the rapid or substantial change in the shoreline, as well as the performance of the proposed Pilot Project. The results of this subaerial beach change will be compiled and made publicly available through the RE:BEACH website.
- *Task 2.2 - Bathymetric Monitoring:* Under the current understanding of the proposed Pilot Project, indirect changes to the bathymetric environment may occur. Due to this, periodic surveys of the seafloor surface will be necessary in order to assess how the bathymetry changes in response to the pilot project as well as the processes within the littoral zone. Bathymetry surveys will be performed offshore along predefined transects

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from Oceanside Pier to Tamarack Beach on a quarterly basis in order to collect a comprehensive baseline understanding of the bathymetric environment. This will inform the implementation of maintenance and adaptive management measures, should triggers within the adaptive management plan be met. Also, in order to capture the effect of notable events on the seafloor, such as beach nourishment or large storm events, up to four event-based survey events per year will be conducted. It is likely these would be in conjunction with any event-based UAV surveys and occur pre- and post-event. These will serve to evaluate any substantial change along the seafloor, as well as the performance of the proposed Pilot Project. The results of this bathymetric change will be compiled and made publicly available through the RE:BEACH website.

- *Task 2.3 - Biannual Transect Monitoring:* Currently, the San Diego Association of Governments (SANDAG) biannually collects beach profiles data from 6 transects along the City of Oceanside as part of their Regional Beach Monitoring Program. Recently in 2023, the City funded two additional transects to support the RE:BEACH project's shoreline monitoring efforts. This was intended to contribute to the long-term historical transect lines throughout the region so that long-term changes may be documented and appropriately evaluated. This task will extend and continue this expanded monitoring effort with the results shared publicly and with SANDAG.
- ***Deliverables:***
 - Subaerial survey data (UAV data; SOS data)
 - Bathymetry survey data
 - Transect data as part of SANDAG's Annual Regional Beach Monitoring Reports
 - Shoreline/Bathymetric change results publicly available through the RE:BEACH website

Task 3 – Numerical Model Calibration: Generally, in order to predict the morphological response to the implementation of the proposed Pilot Project, numerical modeling will be utilized to refine and optimize its individual components. This coupled wave, hydrodynamic, and sediment model will be developed to simulate as accurately as possible the morphological response of the City's shoreline. This model will be necessary in post-construction to inform the implementation of maintenance and adaptive management measures, should triggers within the Project's adaptive management plan be met. In order to enhance the model's predicted capabilities, it needs to be calibrated against local data.

- *Task 3.1 - ADCP Deployment:* The development of the morphological model will be supported through the collection of offshore oceanographic data by an Acoustic Doppler Current Profiler (ADCP). Due to this instrument's ability to measure water particle movement in the water column, directional wave and current data can be captured. This data will be used to calibrate the wave and hydrodynamic model, respectively, thereby significantly increasing confidence in the modeled results. The deployment of an ADCP

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will support this enhanced understanding of the wave climate and wave-driven currents. It is expected that this instrument will be deployed in mid- 2025 and remain for approximately 10 months before retrieval.

- **Deliverables:**
 - ADCP Oceanographic Data
 - Calibrated Model Data Products

Task 4 – Surf Monitoring Program: Due to the significance of surf resources in the area, a baseline surf monitoring program across both Oceanside and North Carlsbad is necessary to understand where or how surfing could be impacted by the proposed Pilot Project. It is expected that surfing resources will be measured based on the number of surfers, their observed location offshore, and wave parameters. This will allow for the establishment of the average number of surfers and their typical location over a long period of time. Based on this baseline monitoring, the impact on surfing resources after the implementation of the proposed Pilot Project can be appropriately assessed.

- *Task 4.1 - Surf Camera Monitoring:* As part of this effort to enhance and automate the process for measuring the surf resources across Oceanside and North Carlsbad, large scale data collection and analysis will be processed through a collaboration with Surfline. Surfline has demonstrated that its camera data can be analyzed via machine learning algorithms in order to produce a count of surfers and beach users, as well as provide data for surfing including the length of a ride (distance and time), speed, peel angle, and number of turns. By utilizing existing Surfline cameras and installing new cameras at appropriate locations around the proposed Pilot Project site, a baseline for surf resources in the local area can be gathered. The results of this data will then be validated against control cameras, assumed to lie along the North Pier/Strand and Harbor middle beach. This data is intended to be captured over the entire sample period (2 years) to compile a large dataset of existing conditions. Post-construction, this data will continue to be collected in order to compare the measured surf resources in the local area. Associated imagery and video from the grant funded effort will be made publicly available. The Project Team will work with the surfing community to determine the best approach for sharing video and data products from this effort.
- *Task 4.2 – Surf Community Engagement:* Due to the unique conditions related to surfing, assessments utilizing the environmental knowledge of local and recurrent surfers in the area of existing surf conditions are considered valuable for a comprehensive understanding of the area. This task will involve the development and implementation of surf community engagement which may consist of targeted “blitz” monitoring events utilizing GPS watches, interviews or surveys of the surfing community, and various engagement events to better relate subjective metrics of wave quality with data driven objective metrics. The exact details and implementation timeline of surf engagement activities will be developed in partnership with a surf advisory group which will include

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representatives from existing entities such as Oceanside Boardriders Club, Surfrider Foundation, and Save Oceanside Sand, among others. At the end of the baseline monitoring period, the results of surf monitoring and community engagement will be compiled into an accessible viewing format. This compilation will then serve to provide context around other data collected when comparing it with surf conditions post-construction.

- **Deliverables:**
 - Surf quality data
 - Development of surf advisory group
 - Content and materials for engagement and outreach
 - Compiled data and information from baseline monitoring and surf community engagement

Task 5 – Biological Monitoring

In order to identify potential project-related impacts to nearshore marine biological resources, it is necessary to have an understanding of the existing biological conditions in the area. As any impacts would need to be mitigated, a baseline assessment of the presence and abundance of reefs would need to be determined to establish baseline biological conditions. The lack of current existing conditions data hinders an accurate assessment of the potential impacts, which is only exacerbated by the high natural variability of the environment. Given this high natural variability, there is a greater need to have multiple temporal data points to establish baseline conditions. Fortunately, there is existing data from ongoing biological monitoring both north and south of the project. This effort will help fill in a data gap that will have multiple benefits for the project and the region.

- *Task 5.1 - Nearshore Marine Habitat Mapping:* To establish baseline conditions for the marine biological resources located along Oceanside, a fine-scale mapping effort to delineate the various habitats (e.g. rock, sand, surfgrass, biotic reef) will be performed. An initial survey, using City funds, is anticipated to be conducted in Fall 2025. The grant will cover the Spring 2026 and Fall 2026 surveys using remote-sensing techniques, such as unmanned aerial vehicle and interferometric sidescan sonar. It is anticipated that biological monitoring will be performed annually and funded by other sources (i.e. additional grants, City's General Fund) in 2027 and beyond. It is expected that this survey will extend from the Oceanside Pier to Tamarack Beach in Carlsbad, from the back of the available beach to an offshore depth of approximately -35 ft. This will complement existing monitoring currently underway by separate projects that assess habitat north of this area, as well as long term habitat monitoring (2015-2024) near Tamarack Beach as part of the Aqua Hedionda dredging program. Habitat mapping will provide data on the extent of supratidal, intertidal, and subtidal habitat within the project area. Habitats will be tracked as aerial extent within the mapped area (acres) and tabulated. This will be converted to a percent of the total mappable area, with surveys compared against each other. The following table depicts the potential

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elements and assessment metrics for mapped habitat data. For each assessment metric, the magnitude and direction of change will be measured in terms of acres.

Substrate Element	Biotic Elements (if present)
<i>Artificial Structure/Rip Rap</i>	<i>Surfgrass</i>
<i>Bedrock/Boulder/Cobble</i>	<i>Kelp</i>
<i>Sand</i>	

By assessing the study area over 2 years, a general indication of habitats present within the project area and temporal variability can be determined through annual differences in rocky and sandy habitat, as well as direction of changes (e.g., areas where rocky habitat was covered with sand in subsequent survey, and sandy areas changed to rocky habitat). While more surveys would provide a better indication of natural variability, a minimum of 2 surveys in the Fall and one Spring survey is helpful in assessing baseline conditions. In addition, potential reference site habitat data may be available for 2025 and 2026 for areas off Encinitas and Solana Beach as part of the USACE Coastal Storm Damage Reduction Project. Furthermore, approximately 9 years of habitat mapping data exist for nearshore areas off Tamarack as part of the Aqua Hedionda dredging program, which can also serve as another input in evaluating natural variability and impacts from management activities.

- **Task 5.2 - Habitat Type Quantification:** For a more comprehensive assessment, a quantitative characterization of the biological communities through in situ field sampling methods of soft bottom and rocky reef ecosystems will be conducted. This will include five random grab samples to assess the benthic infauna community, three random 10-minute otter trawls to assess the sandy habitat benthic epifauna community, and diving surveys at 10 random transects to quantify the density and cover of algae, invertebrates, and substrate on rocky subtidal habitat. Transects will consist of 10x2m swath surveys for macroinvertebrates and kelps, and point contact surveys for benthic algae and substrate composition. This sampling will be performed once per year (likely Fall 2025 and Fall 2026) during the two-year monitoring period. The objective of benthic sampling is to characterize the benthic infaunal and epifaunal communities to support environmental planning and permitting. Metrics such as density, species richness, biomass, and diversity will be calculated for each station. Descriptive statistics such as mean and standard deviation can also be calculated for the site.
- **Deliverables:**
 - Nearshore Marine Habitat Mapping Report

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Task 6 – Beach Usage Monitoring

To inform knowledge on beach usage, a system for tracking public usage is necessary to understand how the proposed Pilot Project may affect visitation and access along the shoreline. A quantitative approach to this will allow for an understanding of how the proposed Pilot Project affects beach visitation in the area as well as act as another performance indicator. This would be under the assumption that a higher rate of visitation post-construction could be associated with positive performance of the Project, whereas a lower rate would indicate a negative performance.

- *Task 6.1 - Beach Attendance Tracking:* In order to perform this quantitative assessment of beach usage, a tracking system will be developed based on data collected from streetlight cameras within the area. These systems are commonly utilized to study traffic patterns, allowing for an understanding of how the public utilizes specific areas. By implementing this tracking system around the proposed Pilot Project site, based on the siting decision, existing traffic movements over the two-year monitoring period can be captured as a visitation baseline. After post-construction, this data will continue to be collected during the post-construction monitoring period so that an assessment of the proposed Pilot Project's effect on beach usage is appropriately analyzed and characterized.
- **Deliverables:**
 - Beach Attendance Tracking Results

Task 7 – Baseline Monitoring Report: It is recognized that at the end of the two-year baseline monitoring period, a summary report that compiles the results from all the of the monitoring efforts will be necessary. This compilation will include the analyses conducted for the baseline monitoring with a focus on the lessons learned from the program.

- *Task 7.1 - Baseline Conditions Monitoring Report and Lessons Learned:* A lessons learned document that compiles the results of the shoreline change, surf, biological, and beach usage monitoring (Tasks 2-6) will be prepared at the conclusion of the two-year monitoring period. While including a summary of this data, the report will focus on the challenges and benefits associated with the monitoring program, along with recommendations for how the post-construction monitoring program can be optimized. Funding for long-term monitoring of the project will come, in part, from the City's Beach Restoration Fund, which is partially funded by Measure X (a half cent sales tax increase that was approved in 2024) and the City's General Fund. The Baseline Conditions Monitoring Report and Lessons Learned document will benefit the long-term development of the proposed Pilot Project as well as provide a framework for future comprehensive monitoring programs to emulate for other pilot projects. The application of new technologies in this monitoring program throughout other projects presents the opportunity to decrease costs and make some forms of data collection more efficient.

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The implementation novel monitoring program, such as the use of surf cameras, offers new approaches for monitoring offshore conditions that could be applied more widely through other projects.

- **Deliverables:**
 - Baseline Monitoring Report

Task 8 – Updated Vulnerability Assessment (VA): Prepare a synthesized update to the City’s VA that includes best available science on sea level rise scenarios and understanding of City assets including information obtained through Tasks 2-7. Outreach for this effort will be combined with Task 9.

- *Task 8.1 – Administrative Draft Updated Vulnerability Assessment:* Leveraging the 2018 VA and Baseline Conditions Monitoring Report (Task 7), an Administrative Draft Updated VA will be developed that incorporates the best available science, latest State SLR Guidance, and updated assets, and proposed adaptation projects. Includes 4-week CCC review.
- *Task 8.2 – Final Updated Vulnerability Assessment:* Following a public review period, a revised version will be prepared that incorporates feedback and comments from the public and Coastal Commission staff.

- **Deliverables:**
 - Administrative Draft and Final Updated Vulnerability Assessment

Task 9 – Addendum to Coastal Hazards Adaptation Plan (AP). Prepare a focused addendum to the AP that includes the variety of coastal management activities and resilience efforts currently underway that are related to the RE:BEACH Oceanside Pilot Project. This addendum will address the new information obtained from Task 2-8. Public outreach for the VA and AP will be combined.

- *Task 9.1 – Administrative Draft Addendum to Adaptation Plan:* Includes 4-week CCC review
- *Task 9.2 – Public Outreach:* Input from the community will be gathered through an online survey, webinar, and/or public meeting(s) for the VA (Task 8) and the AP (Task 9). Following input from the community, the project team will make necessary changes to the draft vulnerability assessment amendment and finalize the document.
- *Task 9.3 – Revised Draft Addendum to Coastal Hazards Adaptation Plan:* Following a public review period, a revised version will be prepared that incorporates feedback and comments from the public and Coastal Commission staff.

- **Deliverables:**
 - Administrative Draft and Revised Draft Addendum to Coastal Hazards Adaptation Plan

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Task 10 – Prepare targeted Local Coastal Program (LCP) changes: Develop targeted changes and add sea level rise policies to the LCP that takes into account the refined understanding of current conditions, adaptation planning efforts of the City and region, and incorporates the findings and recommendations from Task 2-9 deliverables. Products from the California Coastal Commission’s Local Government Working Group will be reviewed and incorporated, including, at a minimum, baseline sea level rise policies of the type described by the Working Group.¹ City Staff will prepare and submit draft targeted LCP changes to the California Coastal Commission incorporating the findings and recommendations contained in the Task 8 Updated Vulnerability Assessment and Task 9 Addendum to Coastal Hazards Adaptation Plan, all of which will be informed by the data collection efforts of Tasks 2-7.

- *Task 10.1 - Administrative Draft LCP:* Preparation of an administrative draft LCP and submittal to CCC for at least a 4-week review period. City staff will initiate this task as early in the process as possible however the specific content of the changes is dependent on the outcomes, findings and recommendations of Tasks 8 and 9.
- *Task 10.2- Public Outreach:* Outreach and engagement on the draft LCP changes will be conducted and we will publish the document for a six-week public review and comment period. At least two public outreach/community engagement meetings will occur, currently anticipated to be held in conjunction with the City’s Beaches, Parks and Recreation Commission and the City’s Planning Commission.
- *Task 10.3. Revised draft LCP changes:* Revised draft LCP changes will be prepared to address public review comments and submit to CCC for processing. As part of this task, City staff will present to the City Council with a request to authorize submittal to the CCC and formal processing of the Updated Vulnerability Assessment and Addendum to the Coastal Hazards Adaptation Plan.

- **Deliverables:**
 - Administrative Draft and Revised Draft LCP Amendment
 - Public outreach meetings and materials

C. SCHEDULE

Proposed Start/End Dates: June 2025 to December 2027*

*(Schedule below is tentative and to be amended based on final grant agreement)

Task 1. Project Management	Projected start/end dates
1.1 Program Management Tasks	June 2025/December 2027
Task 2. Shoreline Change Monitoring	Projected start/end dates
2.1 Subaerial Beach Monitoring	June 2025/June 2027
2.2 Bathymetric Monitoring	June 2025/June 2027

¹ [Local Government Working Group’s 2021 Work Products](#)

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2.3 Biannual Transect Monitoring	June 2025/December 2027
Outcome/Deliverables: a. Subaerial survey data (UAV data; SOS data) b. Bathymetric survey data c. Transect data as part of SANDAG’s Annual Regional Beach Monitoring Reports d. Shoreline/Bathymetric Change results publicly available through the RE:BEACH website	a. June 2027 b. June 2027 c. December 2027 d. June 2027
Task 3. Numerical Model Calibration	Projected start/end dates
3.1 ADCP Deployment	August 2025/May 2026
Outcome/Deliverables a. ADCP Oceanographic Data b. Calibrated Model Data Products	a. May 2026 b. May 2026
Task 4. Surf Monitoring Program	Projected start/end dates
4.1 Surf Camera Monitoring	June 2025/June 2027
4.2 Surf Community Engagement	June 2025/June 2027
Outcome/Deliverables a. Surf Quality Data b. Compilation of surf monitoring and community engagement	a. June 2027 b. June 2027
Task 5. Biological Monitoring	Projected start/end dates
5.1 Nearshore Marine Habitat Mapping	June 2025/June 2027
5.2 Habitat Type Quantification	June 2025/June 2027
Outcome/Deliverables a. Nearshore Marine Habitat Mapping Report	a. June 2027
Task 6. Beach Usage Monitoring	Projected start/end dates
6.1 Beach Attendance Tracking	June 2025/June 2027
Outcome/Deliverables a. Beach Attendance Tracking Results	a. June 2027
Task 7. Baseline Monitoring Report	Projected start/end dates
7.1 Baseline Conditions Monitoring Report and Lessons Learned	June 2027/December 2027
Outcome/Deliverables a. Baseline Conditions Monitoring Report	a. December 2027
Task 8. Updated Vulnerability Assessment	Projected start/end dates

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8.1 Administrative Draft Updated Vulnerability Assessment (includes 4-week CCC review)	December 2025/May 2026
8.2 Final Updated Vulnerability Assessment	May 2026/September 2026
Outcome/Deliverables	
a. Administrative Draft Updated Vulnerability Assessment	a. April 2026
b. Final Updated Vulnerability Assessment	b. September 2026
Task 9. Addendum to Adaptation Plan	Projected start/end dates
9.1 Administrative Draft Addendum to Adaptation Plan (includes 4-week CCC review)	May 2026/December 2026
9.2 Public Outreach	May 2026/May 2027
9.3 Revised Draft Addendum to Adaptation Plan	December 2026/May 2027
Outcome/Deliverables	
a. Administrative Draft Addendum to Adaptation Plan	a. November 2026
b. Revised Draft Addendum to Adaptation Plan	b. May 2027
Task 10. Targeted Local Coastal Program Changes	Projected start/end dates
10.1 Administrative Draft LCP (includes at least 4-week CCC review)	February 2027/August 2027
10.2 Public Outreach	May 2027/December 2027
10.3. Revised Draft LCP Amendment	August 2027/December 2027
Outcome/Deliverables	
a. Administrative Draft targeted Local Coastal Program Amendment	a. July 2027
b. Public outreach meetings and materials	b. December 2027
c. Revised Draft targeted Local Coastal Program Amendment	c. December 2027

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- D. BENCHMARK SCHEDULE** *[LCPs ONLY-Please include a list of benchmarks, or milestones, with completion date, that can be used to track whether the project is progressing according to the schedule. This can be copied from the application and modified as needed.]*

ACTIVITY	COMPLETION DATE
Task 7: Baseline Monitoring Report	
Baseline Monitoring Report	12/31/2027
Task 8: Updated Vulnerability Assessment	
Administrative Draft Updated Vulnerability Assessment	04/30/2026
Final Updated Vulnerability Assessment	09/30/2026
Task 9: Addendum to Adaptation Plan	
Administrative Draft Addendum to Adaptation Plan	11/30/2026
Revised Draft Addendum to Adaptation Plan	05/31/2027
Task 10: Targeted Local Coastal Program Changes	
Administrative Draft Targeted Local Coastal Program Amendment	07/31/2027
Revised Draft Targeted Local Coastal Program Amendment	12/31/2027

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DEFINITIONS

1. The term “Agreement”; this Grant Agreement.
2. The term “Budget Act”; the annual enacted version of the Budget Bill which makes appropriations for the support of the government of the State of California.
3. The term “Deputy Executive Director”; the Deputy Executive Director of the Commission.
4. The terms “Commission” or “Coastal Commission” and the acronym “CCC” all refer to the California Coastal Commission.
5. The term “Executive Director”; the Executive Director of the Commission.
6. The term “Grant” or “Grant Funds”; in the case of LCP grants, the money provided by the California Climate Investments program or, in the case of Public Education grants, sales and renewals of the WHALE TAIL[®] Specialty License Plate, or California’s Voluntary Tax Check-Off Program, or General Fund/Local Assistance, and administered by the Coastal Commission to the Grantee pursuant to this Agreement.
7. The term “Grant Manager”; the representative of the Commission with authorization per the Executive Director to administer and provide oversight of the Grant.
8. The term "Grantee"; an applicant who has a signed agreement for Grant Funds.
9. The term "Project"; the activity described under the Scope of Work, attached as EXHIBIT A, to be accomplished with Grant Funds.
10. The term “Project Budget”; the Commission approved cost estimate submitted to the Commission’s Grant Manager for the Project. The Project Budget shall describe all labor and material costs of completing each component of the Project. The Project Budget shall contain itemized amounts permissible for each item or task described in the Scope of Work. The Project Budget must include the set administrative and indirect costs agreed upon by the Parties if applicable.
11. The term “Public Agency”; any State of California department or agency, a county, city, public district or public agency formed under California law.
12. The term “Scope of Work” refers to EXHIBIT A, including the approved Project Description, Tasks, and Schedules.

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13. The term "Termination Date"; the date by which all activity for the project must be concluded, as specified in the signature page of this Agreement. Work performed after this date cannot be reimbursed.

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BUDGET
(Local Coastal Programs)

Funding Request: \$1,835,000

Total Project Cost: \$2,106,929

<i>Jurisdiction Name</i>	<i>CCC Grant Total</i>	<i>Match/Other Funds</i>	<i>Total (LCP Grant Funds + Match/Other Funds)</i>
LABOR COSTS²			
County/City Staff Labor			
Task 1 – Project Management	\$90,000	\$0	\$90,000
Task 2 – Shoreline Change Monitoring	\$5,000	\$5,000	\$10,000
Task 3 – Numerical Model Calibration	\$5,000	\$0	\$5,000
Task 4 – Surf Monitoring Program	\$15,000	\$10,000	\$25,000
Task 5 – Biological Monitoring	\$0	\$5,000	\$5,000
Task 6 – Beach Usage Monitoring	\$30,000	\$7,000	\$37,000
Task 7 – Baseline Monitoring Report	\$20,000	\$5,000	\$25,000
Task 8 – Updated Vulnerability Assessment	\$5,000	\$0	\$5,000
Task 9 – Addendum to Adaptation Plan	\$20,000	\$0	\$20,000
Task 10 – Focused Local Coastal Program Amendment	\$15,000	\$0	\$15,000
Total Labor Costs	\$205,000	\$32,000	\$237,000
DIRECT COSTS			
County/City Staff Project Supplies			
A			
B, etc.			
Total			
County/City Staff Travel in State³			
Mileage			
Hotel, etc.			
Total			

² Amount requested should include total for salary and benefits.

³ Travel reimbursement rates are the same as similarly situated state employees.

EXHIBIT B

<i>Jurisdiction Name</i>	<i>CCC Grant Total</i>	<i>Match/Other Funds</i>	<i>Total (LCP Grant Funds + Match/Other Funds)</i>
Consultants⁴/Partners			
Consultants			
<i>Task 1 – Project Management</i>	\$60,000	\$0	\$60,000
<i>Task 2 – Shoreline Change Monitoring</i>	\$730,000	\$46,600	\$776,600
<i>Task 3 – Numerical Model Calibration</i>	\$240,000	\$108,121	\$348,121
<i>Task 4 – Surf Monitoring Program</i>	\$270,000	\$0	\$270,000
<i>Task 5 – Biological Monitoring</i>	\$190,000	\$90,208	\$280,208
<i>Task 6 – Beach Usage Monitoring</i>	\$0	\$0	\$0
<i>Task 7 – Baseline Monitoring Report</i>	\$30,000	\$0	\$30,000
<i>Task 8 – Updated Vulnerability Assessment</i>	\$30,000	\$0	\$30,000
<i>Task 9 – Addendum to Coastal Hazards Adaptation Plan</i>	\$50,000	\$0	\$50,000
<i>Task 10 – Targeted LCP Changes</i>	\$30,000	\$0	\$30,000
Consultants Total	\$1,630,000		
Total Direct Costs	\$1,630,000	\$244,929	\$1,874,929
OVERHEAD/INDIRECT COSTS⁵			
Total County/City Staff Overhead/Indirect Costs			
TOTAL PROJECT COST	\$1,835,000	\$276,929	\$2,111,929

⁴ All consultants must be selected pursuant to a bidding and procurement process that complies with all applicable laws.

⁵ Indirect costs include, for example, a pro rata share of rent, utilities, and salaries for certain positions indirectly supporting the proposed project but not directly staffing it. Amount requested for indirect costs should be capped at 10% of amount requested for “Total Labor.”

EXHIBIT B1

BUDGET DETAIL AND PAYMENT PROVISIONS
(Local Coastal Programs)

1. Request for Funds

- A. For performance of activities satisfactorily rendered during the term of this Agreement (as specified in EXHIBITS A and B), and upon receipt and approval of the Request for Funds Form described below (also referred to as the “RFF Form”), the Commission agrees to reimburse Grantee for actual expenditures incurred in accordance with the rates specified herein or attached hereto.
- B. Grantee shall submit each RFF form no more frequently than monthly (except as requested by the Commission) but no less frequently than quarterly (assuming activity occurred within that quarter) in arrears via email (preferred method) to your LCP grant coordinator or mailed in triplicate to:

California Coastal Commission Attn: Jasmine Han Associate Governmental Program Analyst 301 E Ocean Blvd, Suite 300 Long Beach, CA 90802	California Coastal Commission Attn: Karen Vu Environmental Scientist 455 Market Street, Suite 200, Room 228 San Francisco, CA 94105
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- C. Each RFF form shall contain the following information:
1. Grantee’s name and address as shown in this Agreement.
 2. Invoice number and date of the RFF
 3. Time period covered by the RFF form during which work was actually done.
 4. Agreement number as shown on this Agreement.
 5. Original or digital signature of the Grantee, specifically the Project Representative, as identified in EXHIBIT A.
 6. Itemized costs by tasks and source of funds as listed in the Scope of Work for the billing period in the same or greater level of detail as indicated in the Project Budget (see EXHIBIT B), with supporting documentation. Only those costs and/or cost categories expressly identified in this Agreement may be reimbursed.
 7. Remaining balance listed by task number from the Scope of Work including the cumulative expenditures to date, the expenditures during the reporting period, and the unexpended balance of funds under this Agreement.
 8. The total amount of all other funds, including matching funds, under the Grantee Matching Funds section of the RFF.

EXHIBIT B1

- D. Attached to the RFF form, the Grantee shall submit a supporting progress report summarizing the work that was completed during the invoice period and the current status of the work for which disbursement is sought, including work by any consultant, and comparing it to the status required by the Scope of Work (budget, timeline, tasks, etc.). Progress reports must be submitted no less frequently than on a quarterly basis, even if an RFF is not submitted.
- E. Notwithstanding the foregoing, the Grant Manager of the Commission may request, and the Grantee shall provide, receipts or other source documents for any other direct expenditure or cost as described in the RFF form, as and when necessary to resolve any issue concerning reimbursement.
- F. The Grantee's failure to fully execute and submit a RFF form, including attachment of supporting documents, may relieve the Commission of its obligation to disburse funds to the Grantee unless and until the Grantee corrects all deficiencies.
- G. Any RFF form that is submitted without the required itemization and documentation will be considered "disputed" and will not be authorized. If the RFF form package is incomplete, inadequate or inaccurate, the Commission will inform the Grantee and will withhold payment until all required information is received or corrected. In the case of non-compliance, the Commission will issue a formal Invoice Dispute Notification [STD (209)] and take necessary action in resolving any disputed matter(s). Any penalties imposed on the Grantee by a consultant, or other consequence, because of delays in payment will be paid by the Grantee and is not reimbursable under this Agreement.
- H. Grant Funds in this award have a limited period in which they must be expended. Grantee expenditures funded by the Commission must occur within the term of the Grant Agreement and before the Termination Date.
- I. The Grantee shall expend Grant Funds in the manner described in the Scope of Work and Project Budget approved by the State. Expenditure on items contained in the approved Project Budget may vary by as much as ten percent with prior approval by the Commission Grant Manager, provided the grantee first submits a revised Project Budget for the purpose of amending the Project Budget. In any event, the total amount of the Grant Funds may not be increased, except by written amendment to this agreement and only if approved by the Commission.

EXHIBIT B1

2. **Budget Contingency Clause**

- A. It is mutually agreed that if the final Budget Act of the current year and/or any subsequent years covered under this Agreement does not appropriate sufficient funds for the Grant Program, this Agreement shall be of no further force and effect, and the Commission shall have no liability to pay any funds whatsoever to Grantee or to furnish any other consideration under this Agreement and Grantee shall not be obligated to continue performance under the provisions of this Agreement.
- B. If funding for any fiscal year is reduced or deleted by the Budget Act for purposes of this Grant Program, the Commission shall have the option at its sole discretion to either cancel this Agreement with no liability accruing to the Commission or enter into an agreement amendment with Grantee to reflect the reduced amount.

3. **Prompt Payment Clause**

Payment will be made no later than 45 days following receipt of properly submitted, undisputed invoices except as otherwise set forth in, and in each case in accordance with, the California Prompt Payment Act, Government Code section 927, et seq.