Project Work Plan, Schedule, and Budget

County of Santa Barbara, Planning and Development Department 123 East Anapamu Street, Santa Barbara, CA 93101

Santa Barbara County Coastal Resiliency Project: North Coast Coastal Hazard Modeling, Vulnerability Assessment and Local Coastal Program Amendment

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Budget Summary -

CCC funding:

\$8,000

OPC funding:

\$175,000

Other funding:

<u>\$57,000</u>

Total project cost:

\$240,000

Begin/end dates: June 18, 2015/April 30, 2017 December 31, 2017

A. <u>PROJECT DESCRIPTION</u> Santa Barbara County Coastal Resiliency Project (Project) is modeled after The Nature Conservancy's *Building Coastal Resilience for Disaster Risk Reduction and Climate Adaptation* project.³ Specifically, the County of Santa Barbara's (County) project approach tiers off of the Coastal Resilience Ventura Project.⁴

The goal of the Project is to identify and plan for mitigation of potential coastal hazards associated with climate-related impacts on important infrastructure, ecological resources and community assets and includes two phases. Phase I of the project comprises coastal hazard modeling and a vulnerability assessment which includes developing two regional databases (a resource database⁵ and a policy and planning tools database) in order to have useful information for making high resolution planning level decisions, i.e. parcel scale or similar, as appropriate based on best available science and data. The Phase I coastal hazard modeling and a Vulnerability Assessment is partially funded by the State Coastal Conservancy's Climate Ready Grant Program and by the Local Coastal Program (LCP) Sea Level Rise (SLR) Adaptation Grant Program. Phase II includes the development of a Coastal Hazard Adaptation Plan (currently unfunded) and associated LCP amendment (funded by the LCP Planning Grant Program).

At this time, the County is working with a consultant to model coastal hazards for Santa Barbara County's south coast from Jalama Beach County Park south to the

³ http://coastalresilience.org/

⁴ A partnership project with Ventura County, Naval Base Ventura County, and the incorporated Cities of Ventura, Oxnard and Port Hueneme and the Nature Conservancy.

⁵ Develop a spatially explicit regional GIS database for social, economic, coastal armoring, water control structures (e.g. storm drains, tide gates, levees, culverts) and ecological resources critical to Santa Barbara County

Santa Barbara/Ventura County line and developing a Vulnerability Assessment. The LCP SLR Adaptation Grant Program funding will complete the coastal hazard modeling for the northern Santa Barbara County coastline from Jalama Beach County Park north to the Santa Barbara/San Luis Obispo County line. Results from the coastal hazard modeling will support analysis of a resource database to support a vulnerability assessment to help analyze future impacts to the County's coastal zone under different climate scenarios. Maps created from the models will illustrate potential future conditions and uncertainties associated with the projections. These maps can be incorporated into long-term policy decisions and short-term permit decisions by staff, decision-makers, and stakeholders to help develop scientifically sound and robust adaptation strategies and to identify appropriate management options for dealing with coastal hazards. These adaptation strategies and management options will provide climate information needed to develop new or enhance existing LCP policies and implementing ordinances. The LCP Planning Grant Program funding will help update the County LCP, specifically the Coastal Land Use Plan and future Community Plan efforts, to include proposed new policies and enhanced existing LCP policies to address impacts from coastal hazards. Additionally, the County's Coastal Zoning Ordinance would be updated to include development and land use regulations in a proposed Coastal Hazard Overlay Zone to guide the form and intensity of new and remodeled projects to moderate coastal hazard risks. The County will submit all deliverables to the Coastal Commission South Central District staff and to the Commission's grant coordinator.

B. TASKS

B.1 North Coast Coastal Hazard Modeling and Vulnerability Assessment

Task 1. Project Kick-off Meeting

After commencement of the consultant contract for coastal hazard modeling, a meeting will be held with Coastal Commission staff and consultants to clarify the County's objectives, exchange documents with the consultant and Commission staffs, clarify the scope of work and schedule, and establish communication protocols.

Task 2. Modeling and Mapping Stakeholder Meetings

The County will lead a series of public project meetings with key stakeholders to discuss coastal hazard modeling. Key stakeholders include but are not limited to: staff from the incorporated Cities in Santa Barbara County, University of California, Santa Barbara, Caltrans, Southern Pacific Railroad, California State Parks, Santa Barbara County Association of Governments, California Coastal Conservancy, local Chambers of Commerce, Environmental Defense Center, Heal the Ocean, Surfrider, Citizens Planning Association, Urban Creeks Council, Santa Barbara Channelkeeper, and BEACON. Additionally, the County and staff from the incorporated Cities in Santa Barbara County and University of California, Santa Barbara meet periodically as part of a regional sea level rise working group to discuss local planning efforts dealing with sea level rise and other coastal hazards.

The consultant will participate in up to four public project meetings and will provide input on the agenda and/or prepare presentations on technical information relevant to climate change modeling.

Deliverables:

- (1) Meeting minutes; and
- (2) Stakeholder contact list.

Task 3. Update Populate Regional Resource Database

County staff, staff from the University of California, Santa Barbara (UCSB), and cooperating stakeholders are anticipated to provide social, economic, coastal armoring, water control structures (e.g. storm drains, tide gates, levees, culverts) and ecological resources data for their jurisdiction/authority/influence. The County will house the data and all data will be shared with the Coastal Commission including the update to the shoreline armoring data set.

The consultant will acquire regional databases for social, economic, coastal armoring, water control structures and ecological resources from the County and will integrate the digital information into GIS and compile the individual jurisdictional information into a spatial data set. The County will coordinate with the Coastal Commission's mapping unit to obtain any useful data sets, and to determine protocols for developing LCP maps.

The following data will be obtained and integrated:

- Infrastructure and asset data to be provided in digital form by local jurisdictions;
- Habitat data to be provided in digital format by local jurisdictions, UCSB, or other national level data sets; and
- Coastal armoring the consultant will improve the 2006 Coastal Commission armoring data set with improved spatial location and crest elevations based on LIDAR or jurisdictional supplied survey data (see Task 5.1 for more details). To the extent feasible, the consultant and/or County staff will evaluate the legal status of existing coastal armoring, and permit numbers, dates, and other relevant data will be included in the attributes of the spatially-explicit regional GIS database.

Deliverables:

- (1) Summary table of all acquired and relevant data sets; and
- (2) GIS shapefiles with metadata of the compiled spatially-explicit regional GIS database.

Task 4. Update to Existing Policy and Planning Tool Database

County Planning and Development staff will update the Policy and Planning Tool Database (developed as part of the South Coast modeling effort) that catalogues existing, proposed, and innovative coastal hazard planning policies and planning tools utilized around the state by the California Coastal Commission and other state agencies. The Policy and Planning Tool Database summarizes and compares existing relevant coastal policies at UCSB, the County of Santa Barbara, and the Cities of Carpinteria, Santa Barbara, and Goleta. The database is available for each jurisdiction in the County to use to screen and rank the policies and tools based on criteria that measure governmental support, scale of area impacted, timing and cost of implementation, flexibility, and the available policy framework for coastal hazard planning activities. The ability to rank policies and tools in the Policy and Planning Tool Database will help planners, decision-makers, and stakeholders make informed decisions and take actions to reduce risks to climate hazards and enable climateresilient development. This will also help in the development of new policies by allowing planners, decision-makers, and stakeholders to see what already exists within this policy framework; by seeing what already exists, planners can build on existing policies and expand in other areas that lack existing policies. The County will conduct outreach and training on the database to ensure other local government and Coastal Commission staff are able to take full advantage of the tool.

Deliverables:

(1) Updated summary table of policy and planning tool database.

Task 5. Model and Map Coastal Hazards for Climate Scenarios

The NOAA SLR viewer shows some impacts to low lying areas in the County, but the lack of inclusion of coastal erosion and detailed hydraulic connectivity especially in areas of critical infrastructure require more detailed technical modeling analysis. The consultant will model physical processes necessary to identify planning level changes to the extent feasible given existing data in future coastal erosion and coastal flooding hazards. The coastal hazard modeling will be based on the best available science on sea level rise, and will be consistent with the DRAFT guidance of sea level rise by the California Coastal Commission, and the final guidance once approved by the Commission. This will include modeling of at least three (3) sea level rise scenarios and three (3) planning horizons (plus existing conditions). The consultant will follow a similar range of scenarios and planning horizons as those utilized in the Coastal Resilience Ventura Project and the coastal hazard modeling completed for Santa Barbara County's south coast (Phase 1). This same model was initially built as part of the 2009 Pacific Institute work, and has been substantially improved upon during the Coastal Resilience Ventura work and as part of the Monterey Bay Sea Level Rise Vulnerability Assessment. To accomplish the modeling and mapping tasks, there are several subtasks with interim deliverables that the consultant will deliver:

5.1 Backshore Inventory

The consultant will develop a backshore inventory that includes parameters necessary to drive the coastal hazards model. The inventory will be an update of the initial baseline developed for the Pacific Institute study (Revell et al 2011) and

consistent with the Phase 1 Santa Barbara County Coastal Resilience Project. The inventory will be an offshore baseline segmented at a maximum of 500 meters ('1500 feet) spacing ("blocks") to conduct the coastal modeling at a scale appropriate to decision making. In areas of smaller geological units or backshore type (e.g. pocket beaches), the block distance may be smaller. Each block will be assigned a set of parameters including backshore type (dune/cliff/inlet), presence of coastal armoring, geology, erosion rates, median/minimum toe elevations, dune/cliff crest elevation, beach slope, foreshore slope, and the 100-year total water level.

The consultant will utilize available LIDAR including the State funded LIDAR (2010/11), the NOAA, NASA, USGS LIDAR (1997 and 1998), and potentially other relevant topographic data sets. The consultant will also use readily available offshore depth data sets and interpolate between LIDAR and underwater depths, as appropriate. Readily available nearshore profile data from BEACON will be reviewed to inform the profile generation. The consultant will analyze a range of beach profiles from multiple seasons, at 300-foot spacing along the shoreline, and extract the following information:

- 1. Beach slopes (important for calculating wave run-up);
- 2. Backshore toe elevation (important for calculating erosion potential); and
- 3. Crest elevation (important for calculating wave overtopping and flooding).

This geomorphic information will be included in the backshore inventory layer.

5.1.1 Erosion Rates

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The consultant will update the USGS National Assessment of Shoreline Change data (USGS 2006) for the study area using shoreline and cliff reference features extracted from the 2009-2011 State LIDAR data using the Digital Shoreline Analysis System from the USGS. This task will also compile existing erosion rates for sandy shorelines and cliff backed shorelines throughout the Phase 2 study area to provide ground-truth data for comparison with the updated USGS data.

5.1.2 Coastal Armoring Database

The consultant will start with the Coastal Commission shoreline armoring data set (Dare 2006) available for both the Phase 1 and Phase 2 study reaches. We will solicit input on structures from stakeholders and receive and compile changes based on the jurisdictions input and any available surveyed data. The consultant will spatially register all existing armoring (using Coastal Commission geodatabase methods for Monterey). The consultant will QA, QC LIDAR data based on surveyed elevation data of parking lots from Cities and County (to try and correct any bias that would affect LIDAR measurements of crest elevations. Finally, we will attribute the crest elevation from LIDAR if surveyed data is unavailable.

Deliverables for all of Task 5.1 Tasks:

- (1) GIS shapefiles with metadata of backshore inventory attributed with geomorphic and erosion rate data⁶;
- (2) Mean High Water shoreline and cliff edge extracted from the most recent LIDAR data;
- (3) Shapefiles for EXISTING CONDITIONS extents of cliff, dune, and coastal flooding hazards that include consideration for existing coastal armoring and water control infrastructure; and
- (4) Updated coastal armoring data shapefiles with spatially explicit location information with an attribute for the best available crest elevation.

5.2 Wave Transformations

The complex setting of the Santa Barbara County north coast with Point Arguello and the multitude of reefs north of Point Conception require that wave transformation modeling be conducted to provide accurate wave conditions along the variety of shoreline orientations.

The consultant will leverage its existing wave transformation modeling initially developed for Santa Barbara County Phase 1. This existing SWAN model will be further calibrated with available offshore buoy observations. This model uses the same fine-scale modeling grid previously developed by the USGS. The consultant will work with the County staff to select the nearshore transformed wave data extraction points (also known as "model output points" or MOPs). Input wave data will consist of the USGS Global Climate Model (GCM) outputs consistent with details worked out with the USGS during Phase 1. The consultant will continue coordination with USGS during the ongoing COSMOS 3.0 work. This will also facilitate the incorporation of results into the existing web mapping decision support tool.⁷

Deliverables:

- (1) Output files for time series of total water levels; and
- (2) Output files for inland extent of wave run-up and maximum wave run-up elevations.

5.3 Mapping Future Coastal Hazards

The consultant will model the impacts of storm waves and SLR onto the shoreline at 10-year time steps. The modeling will evaluate three scenarios (low, medium, and high) consistent with State and Federal guidance and the Coastal Commission's "DRAFT guidance on sea level rise," and the final guidance once approved by the Coastal Commission. These scenarios and modeling approaches will use a total water level approach and be consistent with the Phase 1 project and the methodology used in Coastal Resilience Ventura. These scenarios will include relevant tectonics, changes to wave climate, and sea level rise scenarios.

⁶ Geomorphic data refers to the interpreted LIDAR data sets including toe and crest elevations, and beach slopes that are used in the modeling and analysis.

www.coastalresilience.org

Output GIS shapefiles will be generated for multiple planning horizons (2010, 2030, 2060, and 2100). The modeling, as mentioned above, will generate hazard zones which will include:

- Short-term, storm-induced erosion;
- Long-term or multi-year erosion;
- · Coastal flooding from storms;
- · Coastal inundation; and
- Wave impact zone.

In addition, a spatial aggregation method is used to provide spatial representation to the range of relative risk and uncertainties.

Deliverables:

- (1) GIS shapefiles and metadata for each of the coastal erosion, coastal inundation, coastal flooding, and wave impacts.
- 5.4 Mapping Coastal Hazards with Existing Armoring

Existing coastal armoring in Santa Barbara County will be represented geospatially with characteristics as described in Task 5.1.2. While the scope does not include armoring in the City of Santa Barbara, the consultant anticipates integrating their deliverables with those developed by the City to provide a seamless mapping of future hazard scenarios. Hazard mapping will be provided for existing, 2030, 2060, and 2100 time horizons.

By 2060, the time span is long enough to result in degradation of coastal armoring if not adequately maintained. Also, higher sea levels and narrower beaches will likely increase the loadings on coastal structures, indicating that renovation or even reconstruction may be needed to accommodate increased loadings. Therefore, a qualitative assessment of armoring condition relative to future conditions loadings will be conducted. Hazard modeling and mapping can then proceed for the 2060 and 2100 time horizon. The consultant will develop and apply a Seawall Index (SWI) that can provide a numeric ranking of structure capacity to prevent erosion. The consultant anticipates building upon the work of Patrick et al, 2006 who developed the SWI for existing conditions. The consultant will use available information developed in the base scope, including the future coastal hazards mapping, to assess the likelihood of structure failure. The consultant will then review their assessment with the County, Coastal Commission staff, and local jurisdictions to modify the likelihood of failure based on their perception whether the individual structures would be maintained and improved to prevent failure or removed.

Deliverables:

(1) GIS shapefiles and metadata for the suite of hazard zones with existing armoring representing the 2030, 2060 and 2100 planning horizons.

5.5 Spatial Aggregation/Relative Risk

Due to the wide range of uncertainties associated with sea level rise and increasing hazards a spatial aggregation method will be used provide to spatially represent the range of relative risk and uncertainties. This is done by calculating hazard extents for all of the scenarios by planning horizon. For each planning horizon, all of the hazards are overlapped and the number of overlaps are counted. The number of overlaps are attributed to this spatial aggregation layer and illustrate the relative risk based on the frequency of overlapping hazards.

Deliverables:

(1) GIS shapefiles and metadata for two spatial aggregation/relative uncertainty layers (with and without armoring) for each planning horizon.

Task 5.6 Technical Methods Report

The methodology, specific methods and assumptions along with examples of the output data sets will be written up in a technical methods report.

Deliverables:

(1) Technical methods report which describes the specific methods and assumptions for the modeling and mapping of the coastal erosion, tidal inundation, coastal flooding, and wave impact hazards.

Task 6. Analyze Social, Economic, and Ecological Conditions

The mapping application (Task 5) will allow planners, decision makers, and stakeholders to analyze social, economic, and ecological conditions and their relative vulnerability to coastal hazards. This web mapping tool can simplify complex relationships through visual spatial display to convey a specific ecological or social concept, or compare different future sea level rise and storm surge condition scenarios.

Available habitat data will be collected and displayed along with different SLR scenarios. These maps will be helpful to illustrate the coastal habitat's relative vulnerability to coastal hazards and to help illustrate coastal habitat's natural ability to protect human communities. The mapping application can help identify where marshes may have the highest potential to reduce risk to people and property, allowing them to examine different conservation and restoration scenarios.

Census block demographic data can be combined with economic data to identify the potential economic damage of future SLR and floods based on the present-day economic landscape. Adequate information on the risks of coastal hazards, the community's vulnerability to them, economic exposure, potential loss of coastal infrastructure from storms and SLR, and environmental conditions is important data for planners, decision-makers and stakeholders to look at when making land use decisions.

Deliverables:

(1) Social, Economic, and Ecological Conditions Maps

Task 7. Prepare a Update the Coastal Hazard Vulnerability Assessment

The two databases (Task 3 and Task 4), mapping tools (Task 5), and social, economic, and ecological conditions analysis (Task 6) will be helpful in updating the County's Coastal Hazard Vulnerability Assessment for the north coast of Santa Barbara County. The consultant will support the County to outline the vulnerability approach then to interpret the results of the modeling and mapping, and provide interpretative input and review of the resulting analysis to include in the update to the existing Vulnerability Assessment by the County. The report will include an assessment of vulnerability of all relevant Coastal Act resources to sea level rise. As part of the development of the Coastal Hazard Vulnerability Assessment, the County will share a scope of work, outline, and draft with the Coastal Commission staff for review during regular coordination meetings. The County and the Commission will work together through iterative exchange of comments to identify adaptation strategies and to develop the final report.

There will be a community engagement process that includes a project website, media outreach and news releases, social media outlets, and the identification of key stakeholders to review the County's Coastal Hazard Vulnerability Assessment. Stakeholder engagement is a crucial piece that will contribute to the Coastal Hazard Vulnerability Assessment, help identify adaptation strategies, and provide input on new and enhance existing LCP policies.

In addition to UCSB, potential stakeholder groups include but are not limited to: Caltrans, Southern Pacific Railroad, California State Parks, Santa Barbara County Association of Governments, California Coastal Conservancy, local Chambers of Commerce, Environmental Defense Center, Heal the Ocean, Surfrider, Citizens Planning Association, Urban Creeks Council, Santa Barbara Channelkeeper, and BEACON.

Deliverables:

- (1) Draft and final Update to the County of Santa Barbara Coastal Hazard Vulnerability Assessment.
- (2) Incorporation of stakeholder and Coastal Commission comments into Vulnerability Assessment.

B.2 Local Coastal Program Amendment

Task 8. LCP Amendment Community Stakeholder Meetings and Workshops

The County will lead a series of public project meetings with key stakeholders (listed in Task 7 with the addition of staff from the incorporated Cities in Santa Barbara County) to identify adaptation strategies and provide input on new and enhance existing LCP policies. The County will qualitatively evaluate the costs and benefits of potential adaptation strategies. The costs and benefits assessment will evaluate the

ability of adaptation strategies to protect coastal resources, protect California's most vulnerable populations, reduce greenhouse gas emissions, and achieve multiple benefits. A quantitative evaluation of the costs and benefits of potential adaptation strategies will be part of a future work effort that will include additional stakeholder meetings and public workshops. Up to four public project meetings are anticipated.

As part of this task, the County will coordinate and share information and lessons learned as appropriate with other LCP planning grant recipients, regional local governments, and other entities, as appropriate. This includes participating in webinars, regional workshops and other events, and scheduling coordination meetings as needed. Additionally, the County and staff from the incorporated Cities in Santa Barbara County and UCSB meet periodically as part of a regional sea level rise working group to discuss local planning efforts dealing with sea level rise and other coastal hazards.

Deliverables:

- (1) Public stakeholder meeting minutes and sign-in sheets;
- (2) Stakeholder contact list; and
- (3) Qualitative adaptation strategy assessment.

Task 9. Develop New and Enhance Existing Coastal Hazard Policies

County staff and stakeholders will review the Coastal Hazard Vulnerability Assessment to identify future areas of concerns and discuss new and enhance existing coastal development and adaptation policies that integrate social, ecological and economic considerations to address coastal hazards. The County's LCP would be updated, specifically the Coastal Land Use Plan and future Community Plan efforts, to include the proposed new policies and enhanced existing LCP policies to address impacts from coastal hazards. Potential policies and regulations County Planning and Development staff will consider incorporating in the LCP update include: restricting development in high risk areas; conditioning development on improved coastal construction standards, identifying bluff erosion setbacks; identifying areas appropriate for managed retreat as implemented through rolling easements; protection, restoration, and enhancement of coastal resources; and maintaining public access to beaches and the coastline including coastal trails. These new and enhanced existing policies would be consistent with the California Coastal Commission's Sea Level Rise Policy Guidance, NOAA's Coastal Zone Management Program, the State of California' Sea Level Rise Guidance Document, the Safeguarding California Plan for Reducing Climate Risk, and the Resolution of the California Ocean Protection Council on Sea Level Rise. The County's Coastal Zoning Ordinance would be updated to include development and land use regulations in a proposed Coastal Hazard Overlay Zone to guide the form and intensity of new and remodeled projects to moderate coastal hazard risks. Lastly, the Coastal Resiliency Project would build upon the County's Multi-Jurisdictional Hazard Mitigation Plan updated for FEMA and Cal EMA in 2011.

Preference will be given to adaptation measures that adhere to the Safeguarding California Plan for Reducing Climate Risk principles, including measures that protect

California's most vulnerable populations, achieve multiple benefits from efforts to reduce climate risks and prioritize green infrastructure solutions, and that integrate climate risk reduction with emissions reductions to the fullest extent possible.

Deliverables:

(1) Prepare Draft LUPLCP Amendment

Task 10. Coastal Commission Coordination and Review

10.1 Coordination with Coastal Commission

The County will hold regular coordination meetings (phone or in-person) with Coastal Commission district staff as needed.

10.2 Commission Review of the Initial Draft LUPLCP Amendment

The County will provide an initial draft of the <u>LUPLCP</u> amendment to Coastal Commission district staff for review and comments prior to environmental review, public hearings, and any formal LCP amendment submittal. The County will submit the initial draft <u>LUPLCP</u> amendment documents (text, maps, and/or exhibits) to the Coastal Commission staff in paper hardcopy as well as an electronic copy in permanent format (such as an Adobe Acrobat pdf file) and one electronic copy in an editable format (such as in Microsoft Word .doc). The County and Commission staff will exchange drafts and comments through an iterative review process prior to completing the Draft <u>LUPLCP</u> amendment.

10.3 Preparation of the Draft <u>LUP</u>LCP Amendment

The County will prepare the Draft <u>LUPLCP</u> Amendment pursuant to the iterative review and feedback process with Commission staff.

10.4 Development of Draft Implementation Plan

The County will develop Implementation Plan material (e.g., zoning ordinance amendments, guidelines for site-specific analysis, etc.) following iterative review between County and Coastal Commission staff.

Deliverables:

(1) <u>Prepare Draft LUP Amendment pursuant to iterative review and feedback</u> process with Commission staff

<u>Prepare Draft Implementation Plan</u> <u>pursuant to iterative review and feedback</u> <u>process with Commission staff</u>

Task 11. Environmental Review

Amendments to the LCP will undergo environmental review. An initial study will be conducted for the proposed LCP policies. It is anticipated that the proposed LCP policies will have impacts that are beneficial to the environment therefore a mitigated

negative declaration or environmental impact report would not be warranted., but the County will determine the proper compliance route under CEQA.

Deliverables:

(1) County CEQA Environmental Review / Determination (Categorical Exemption)

Task 12. Decision Maker Hearings

The findings and new and enhanced existing policies would be presented to decision makers in public hearings, allowing for further public input. The County must notify the public of hearings and availability of review drafts at least 6 weeks before final adoption of the <u>LUPLCP</u> amendment (14 CCR 13515(c)). Three decision-maker hearings are anticipated, these hearings include the Montecito Planning Commission, County Planning Commission and the Board of Supervisors. The County will review changes to the <u>LUPLCP</u> Amendment from the decision maker hearings with Commission staff through an iterative exchange of comments as needed.

Deliverables:

- (1) Planning Commission resolution
- (2) Board of Supervisors resolution

Task 13. Formal <u>LUP</u>LCP Amendment Submittal to Coastal Commission

After decision-maker hearings, County staff will submit the <u>LUPLCP</u> Amendment to the California Coastal Commission (CCC) for approval, in compliance with the LCP amendment submittal requirements of the Coastal Act and the California Code of Regulations. The County will submit the locally-approved <u>LUPLCP</u> amendment documents (text, maps, and/or exhibits) to the Coastal Commission staff in paper hardcopy as well as an electronic copy in permanent format (such as an Adobe Acrobat .pdf file) and one electronic copy in an editable format (such as in Microsoft Word .doc).

Deliverables:

(1) <u>Submittal of the locally-approved LUP amendment documents to the Coastal Commission</u>

Task 14. Post-Grant Coordination and Certification Process

Once the County's LCP Amendment has been approved by the California Coastal Commission, County staff will present the approved LCP Amendment to the Board of Supervisors for final acceptance of any suggested modifications by the Commission. Lastly, County staff will incorporate the LCP Amendments, as certified by the CCC, into the Coastal Land Use Plan and Coastal Zoning Ordinance documents and provide Commission staff with an electronic copy of the final documents.

C. SCHEDULE

015 End Date: 4/30/2017-12/31/2017
Begin Date: 6/16/15 End Date:
4 /30/17- 12/31/2017
Begin Date: 6/16/15 End Date: 5/15/16
Begin Date: 7/1/15 End Date: 9/30/16
End Date: 9/30/16
Begin Date: 7/1/15 End Date: 9/15/15
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Completion Date: 9/15/15
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25g.11 Date. 6/1/10 End Date. 6/01/10
Completion Date: 8/31/15
Begin Date: 9/1/15 End Date: 5/15/16

Hazards for Climate Scenarios Multiple	
Coastal Hazards	
5.1 Backshore Inventory	Begin Date: 9/1/15 End Date: 12/31/15
5.1.1 Erosion Rates	Begin Date: 9/1/15 End Date: 3/31/16
5.1.2 Coastal Armoring Database - North	Begin Date: 9/1/15 End Date: 3/31/16
and South Coast	
5.2 Wave Transformations	Begin Date: 9/1/15 End Date: 3/31/16
5.3 Mapping Future Coastal Hazards	Begin Date: 9/1/16 End Date: 5/15/16
5.4 Mapping Future Coastal Hazards	Begin Date: 9/1/16 End Date: 5/15/16
Existing Armoring	
5.5 Spatial Aggregation/Relative Risk	Begin Date: 9/1/16 End Date: 5/15/16
5.6 Technical Report	Begin Date: 9/1/16 End Date: 5/15/16
Outcome Deliverables - GIS Shapefiles	Completion Date: 5/15/16
and metadata for subtasks 5.1 through	
5.6 including output files for subtask	
5.2 and technical method report for	
subtask 5.6	·
Task 6. Analyze Social, Economic, and	Begin Date: 9/1/15 End Date: 9/30/16
Ecological Conditions	
6.1 Map habitat data with different sea	Begin Date: 9/1/15 End Date: 9/30/16
level rise scenarios based on variables of	
accretion, erosion, land use/cover,	
elevation, and projected sea level	
6.2 Map Census block demographic data	Begin Date: 9/1/15 End Date: 5/13/16
combined with economic data to forecast	
the potential economic damage of future	
SLR and floods based on present-day	
economic landscape	D:- D-t 0/4/40 E LD-t 0/20/40
6.3 Analyze Social, Economic, and	Begin Date: 2/1/16 End Date: 9/30/16
Ecological Conditions	Completion Date: 0/20/46
Outcome Deliverables - Social,	Completion Date: 9/30/16
Economic, and Ecological Conditions	
Maps Task 7. Update the Coastal Hazard	Begin Date: 9/1/15 End Date: 9/30/16
<u>-</u>	Degin Date: 3/1/13 End Date: 9/30/10
	Begin Date: 9/1/15, End Date: 5/31/16
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	Begin Date: 9/1/15, End Date: 5/31/16
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Assessment. Long and short-term	
projected data for future coastal hazards	. ,
Vulnerability Assessment 7.1 Collect information on historical vulnerability and damage from coastal hazards in the County 7.2 Incorporate the historic coastal hazard event and erosion rate data for the County's northern coastline into the existing Coastal Hazard Vulnerability Assessment. Long and short-term	Begin Date: 9/1/15 End Date: 5/31/16 Begin Date: 9/1/15 End Date: 5/31/16

events and erosion rate data used in the	
coastal hazard modeling effort will also be	
utilized	·
7.3 Describe the results from the analysis	Begin Date: 4/1/16 End Date: 9/30/16
(Task 5 and Task 6) of existing GIS	
parcel, infrastructure, and ecological data	
and how coastal resources and priority	
uses addressed in County's Local	
Coastal Program will be affected by	
coastal hazards. These coastal resources	·
and priority uses in the analysis include	
but are not limited to: public access-ways,	
recreation sites, environmentally sensitive	
habitat areas, agricultural areas, new and	
existing development, coastal-dependent	·
uses, and critical infrastructure.	n n
7.4 Utilize the previously developed	Begin Date: 8/1/16 End Date: 9/30/16
community engagement process that	Begin Bate. 6/1/10 End Bate. 6/36/10
includes media outreach and news	
releases, social media outlets, and key	-
stakeholders to review the updated	
County Coastal Hazard Vulnerability	
Assessment	
7.5 Continue working with key County	Begin Date: 8/1/16 End Date: 8/31/16
Departments to provide input on the	Begin Bate. 6/1/10 End Bate. 6/61/10
updated County Coastal Hazard	
Vulnerability Assessment	
Outcome Deliverables - Draft and Final	Completion Date: 9/30/16
Santa Barbara County Coastal Hazard	Completion Bate, 6700/10
Vulnerability Assessment; incorporation	
of stakeholder and Coastal	
Commission staff comments	·
Task 8. LCP Community Stakeholder	Begin Date: 8/1/15 End Date: 9/30/16
Meeting and Workshops	
8.1 Hold workshops to develop new and	Begin Date: 8/1/15 End Date: 9/30/16
enhance existing coastal hazard policies	2 - 3 - 2 - 3 - 2 - 3 - 3 - 3 - 3 - 3 -
and adaptation strategies	
Outcome Deliverables - Report on	Completion Date: 9/30/16
Stakeholder Input-Public stakeholder	,
meeting minutes and sign-in sheets;	
Stakeholder contact list; and	
Qualitative adaptation strategy	
assessment	
Task 9. Develop New and Enhance	Begin Date: 8/1/15 End Date:10/31/16
Existing Coastal Hazard Policies	
9.1 Review existing coastal development	Begin Date: 8/1/15 End Date: 8/31/15

and adaptation strategies	
9.2 Preparation of draft LCPLUP	Begin Date: 9/1/15 End Date: 9/30/16
Amendment/Update to LCPLUP by	(Note: Although initial Commission
creating new and enhancing existing	review/feedback will occur during the
coastal hazard policies, implementation	development and preparation of the
measures, and adaptation strategies.	draft LCPLUP amendment,
County staff shall coordinate with	Commission review and feedback will
Commission staff on a regular basis.	continue through the end of grant
Commission staff will provide review and	term.)
feedback on draft policies and	
implementation measures for use by the	
County in its preparation of the draft LCP	
<u>LUP</u> Amendment.	
Outcome Deliverables - Prepare Draft	Completion Date: 10/31/16
LUP LCP Amendment	
Task 10. Coastal Commission	Begin date: 6/16/15 End Date: 4/30/17
Coordination and Review	12/31/2017
10.1 Coordination with Coastal	As needed.
Commission	Begin date: 6/16/15 End Date: 4 /30/17
	12/31/2017
10.2 Commission Review of the Initial	Begin date: 8/1/15 End Date:
Draft LUPLCP Amendment	10/1/1612/31/2017* *Commission
Dian 201 / Wildiamon	review and feedback will continue
	after initial review until end of grant
	term.
10.3 Preparation of the Draft LUPLCP	
10.3 Preparation of the Draft <u>LUP</u> LCP	Completion Date: 10/31/16 6/30/2017
Amendment	Completion Date: 10/31/16 <u>6/30/2017</u>
Amendment 10.4 Development of Draft	Completion Date: 40/31/16 6/30/2017 Begin Date: 04/01/2017
Amendment	Completion Date: 10/31/16 <u>6/30/2017</u>
Amendment 10.4 Development of Draft Implementation Plan	Completion Date: 40/31/16 6/30/2017 Begin Date: 04/01/2017 End Date: 12/31/2017
Amendment 10.4 Development of Draft Implementation Plan Outcome Deliverables - Prepare Draft	Completion Date: 40/31/16 6/30/2017 Begin Date: 04/01/2017 End Date: 12/31/2017 Completion Date: 40/31/16
Amendment 10.4 Development of Draft Implementation Plan Outcome Deliverables – Prepare Draft LUPLCP Amendment and Draft	Completion Date: 40/31/16 6/30/2017 Begin Date: 04/01/2017 End Date: 12/31/2017
Amendment 10.4 Development of Draft Implementation Plan Outcome Deliverables - Prepare Draft LUPLCP Amendment and Draft Implementation Plan pursuant to the	Completion Date: 40/31/16-6/30/2017 Begin Date: 04/01/2017 End Date: 12/31/2017 Completion Date: 40/31/16
Amendment 10.4 Development of Draft Implementation Plan Outcome Deliverables — Prepare Draft LUPLCP Amendment and Draft Implementation Plan pursuant to the iterative review and feedback process	Completion Date: 40/31/16-6/30/2017 Begin Date: 04/01/2017 End Date: 12/31/2017 Completion Date: 40/31/16
Amendment 10.4 Development of Draft Implementation Plan Outcome Deliverables – Prepare Draft LUPLCP Amendment and Draft Implementation Plan pursuant to the iterative review and feedback process with Commission staff	Completion Date: 10/31/16 6/30/2017 Begin Date: 04/01/2017 End Date: 12/31/2017 Completion Date: 40/31/16 12/31/2017
Amendment 10.4 Development of Draft Implementation Plan Outcome Deliverables — Prepare Draft LUPLCP Amendment and Draft Implementation Plan pursuant to the iterative review and feedback process	Completion Date: 40/31/16-6/30/2017 Begin Date: 04/01/2017 End Date: 12/31/2017 Completion Date: 40/31/16 12/31/2017 Begin Date: 10/31/16 End Date:
Amendment 10.4 Development of Draft Implementation Plan Outcome Deliverables — Prepare Draft LUPLCP Amendment and Draft Implementation Plan pursuant to the iterative review and feedback process with Commission staff Task 11. Environmental Review	Completion Date: 10/31/16-6/30/2017 Begin Date: 04/01/2017 End Date: 12/31/2017 Completion Date: 40/31/16 12/31/2017 Begin Date: 10/31/16 End Date: 4/3/17-7/31/2017
Amendment 10.4 Development of Draft Implementation Plan Outcome Deliverables – Prepare Draft LUPLCP Amendment and Draft Implementation Plan pursuant to the iterative review and feedback process with Commission staff	Completion Date: 10/31/16 6/30/2017 Begin Date: 04/01/2017 End Date: 12/31/2017 Completion Date: 40/31/16 12/31/2017 Begin Date: 10/31/16 End Date: 4/3/17-7/31/2017 Begin Date: 10/31/16 End Date:
Amendment 10.4 Development of Draft Implementation Plan Outcome Deliverables — Prepare Draft LUPLCP Amendment and Draft Implementation Plan pursuant to the iterative review and feedback process with Commission staff Task 11. Environmental Review 11.1 Environmental review	Completion Date: 40/31/16-6/30/2017 Begin Date: 04/01/2017 End Date: 12/31/2017 Completion Date: 40/31/16 12/31/2017 Begin Date: 10/31/16 End Date: 4/3/17-7/31/2017 Begin Date: 10/31/16 End Date: 4/3/17-7/31/2017
Amendment 10.4 Development of Draft Implementation Plan Outcome Deliverables — Prepare Draft LUPLCP Amendment and Draft Implementation Plan pursuant to the iterative review and feedback process with Commission staff Task 11. Environmental Review 11.1 Environmental review 11.2 Continue coordination with California	Completion Date: 10/31/16 6/30/2017 Begin Date: 04/01/2017 End Date: 12/31/2017 Completion Date: 40/31/16 12/31/2017 Begin Date: 10/31/16 End Date: 4/3/17 7/31/2017 Begin Date: 10/31/16 End Date: 4/3/17 7/31/2017 Begin Date: 10/31/16 End Date: 4/3/17 7/31/2017 Begin Date: 10/31/16 End Date:
Amendment 10.4 Development of Draft Implementation Plan Outcome Deliverables — Prepare Draft LUPLCP Amendment and Draft Implementation Plan pursuant to the iterative review and feedback process with Commission staff Task 11. Environmental Review 11.1 Environmental review 11.2 Continue coordination with California Coastal Commission staff to address any	Completion Date: 10/31/16 6/30/2017 Begin Date: 04/01/2017 End Date: 12/31/2017 Completion Date: 40/31/16 12/31/2017 Begin Date: 10/31/16 End Date: 4/3/17-7/31/2017 Begin Date: 10/31/16 End Date: 4/3/17 7/31/2017
Amendment 10.4 Development of Draft Implementation Plan Outcome Deliverables — Prepare Draft LUPLCP Amendment and Draft Implementation Plan pursuant to the iterative review and feedback process with Commission staff Task 11. Environmental Review 11.1 Environmental review 11.2 Continue coordination with California Coastal Commission staff to address any potential changes to Draft LCP	Completion Date: 10/31/16 6/30/2017 Begin Date: 04/01/2017 End Date: 12/31/2017 Completion Date: 40/31/16 12/31/2017 Begin Date: 10/31/16 End Date: 4/3/17 7/31/2017 Begin Date: 10/31/16 End Date: 4/3/17 7/31/2017 Begin Date: 10/31/16 End Date: 4/3/17 7/31/2017 Begin Date: 10/31/16 End Date:
Amendment 10.4 Development of Draft Implementation Plan Outcome Deliverables — Prepare Draft LUPLCP Amendment and Draft Implementation Plan pursuant to the iterative review and feedback process with Commission staff Task 11. Environmental Review 11.1 Environmental review 11.2 Continue coordination with California Coastal Commission staff to address any potential changes to Draft LCP Amendment	Completion Date: 10/31/16 6/30/2017 Begin Date: 04/01/2017 End Date: 12/31/2017 Completion Date: 40/31/16 12/31/2017 Begin Date: 10/31/16 End Date: 4/3/17 7/31/2017 Begin Date: 10/31/16 End Date: 4/3/17 7/31/2017 Begin Date: 10/31/16 End Date: 4/3/17 7/31/2017
Amendment 10.4 Development of Draft Implementation Plan Outcome Deliverables — Prepare Draft LUPLCP Amendment and Draft Implementation Plan pursuant to the iterative review and feedback process with Commission staff Task 11. Environmental Review 11.1 Environmental review 11.2 Continue coordination with California Coastal Commission staff to address any potential changes to Draft LCP Amendment Outcome — Initial Study resulting in CEQA	Completion Date: 10/31/16 6/30/2017 Begin Date: 04/01/2017 End Date: 12/31/2017 Completion Date: 40/31/16 12/31/2017 Begin Date: 10/31/16 End Date: 4/3/17 7/31/2017 Begin Date: 10/31/16 End Date: 4/3/17 7/31/2017 Begin Date: 10/31/16 End Date: 4/3/17 7/31/2017 Begin Date: 10/31/16 End Date:
Amendment 10.4 Development of Draft Implementation Plan Outcome Deliverables — Prepare Draft LUPLCP Amendment and Draft Implementation Plan pursuant to the iterative review and feedback process with Commission staff Task 11. Environmental Review 11.1 Environmental review 11.2 Continue coordination with California Coastal Commission staff to address any potential changes to Draft LCP Amendment	Completion Date: 10/31/16 6/30/2017 Begin Date: 04/01/2017 End Date: 12/31/2017 Completion Date: 40/31/16 12/31/2017 Begin Date: 10/31/16 End Date: 4/3/17 7/31/2017 Begin Date: 10/31/16 End Date: 4/3/17 7/31/2017 Begin Date: 10/31/16 End Date: 4/3/17 7/31/2017

Environmental Review/Determination	
(Categorical Exemption)	
Task 12. Decision Maker Hearings	Begin Date: 1/3/17 End Date: 4/24/17 12/31/2017
12.1 Present Coastal Hazards LUPLCP	Begin Date: 1/3/17 7/1/2017
Amendment to the Montecito and County	End Date: 3/31/17 -10/31/2017
Planning Commissions	***************************************
12.2 Present Coastal Hazards LUPLCP	Begin Date: 4/1/17 11/1/2017
Amendment to the Board of Supervisors	End Date: 4/21/1712/5/2017
12.3 Continue coordination with California	Begin Date: 1/3/17 End Date: 4/24/17
Coastal Commission staff to address any	12/31/2017
potential changes to Draft <u>LUP</u> LCP	
Amendment	·
Outcome/Deliverables – Planning	Completion Date: 4/24/17-12/31/2017
Commission and Board of Supervisors	
Resolutions	
Task 13. Submittal of Coastal Hazard	Begin Date: 4/1/17 12/5/2017
<u>LUP</u> LCP Amendment to California	End Date: 4 /30/17 12/31/2017
Coastal Commission	
13.1 Submit Coastal Hazards <u>LUP</u> LCP	Completion Date: 4/30/17-12/31/2017
Amendment to Coastal Commission Staff	
Outcome Coastal Hazard LCP	Completion Date: 4/30/17-12/31/2017
Amendment-Deliverables - Submittal of	
the locally-approved LUP amendment	
documents to the Coastal Commission	
Took 44 Doct Count Counting tion and	D-+0
Task 14. Post-Grant Coordination and Certification Process	Post-Grant Coordination
14.1 Continued coordination with Coastal	Post-Grant Coordination
Commission staff prior to Coastal	
Commission Hearing	
14.2 Present Coastal Commission	Post-Grant Coordination
Recommendations for the Coastal	
Hazard LCP Amendment to the Board of	
Supervisors for Approval	
14.3 Incorporate Adopted Coastal Hazard	Post-Grant Coordination
Amendments in the County LCP	
Outcome Certified Coastal Hazard LCP	Post-Grant-Coordination
Amendment	

D. BENCHMARK SCHEDULE

BENCHMARK SCHEDULE

DENOTINATIVE OCTILIDALE		
ACTIVITY	COMPLETION DATE	
Regional database for social, economic,	Completion Date: 9/15/15	

coastal armoring, water control	
structures, and ecological resources	
Coastal Hazard Modeling	Completion Date: 5/15/16
Social, economic, and ecological	Completion Date: 9/30/2016
conditions and their relative vulnerability	
to coastal hazards analysis	
Coastal Hazard Vulnerability Assessment	Completion Date: 9/30/2016
Community Stakeholder Workshops	Completion Date: 9/30/2016
<u>LUP</u> LCP Amendment (<u>first draft</u>)	Completion Date: 10/31/16
	<u>11/30/2016</u>
Draft LUP Amendment pursuant to the	<u>12/31/2017</u>
iterative review and feedback process	
with Commission staff	
Draft IP pursuant to the iterative	<u>12/31/2017</u>
review and feedback process with	
Commission staff	,
Environmental Review	Completion Date: 1/3/17 7/1/2017
Board of Supervisors Hearing	Completion Date: 4/24/17 12/5/2017
LUPLCP Amendment Application	Completion Date: 4/30/17 12/31/2017
Submittal	
Coastal Commission Certification	Post-Grant

E. EVALUATION AND REPORTING

- a. The Grantee shall promptly provide Project reports with payment requests at least every three months, and upon request by the Commission. Project reports are subject to the Coastal Commission Executive Director's review and approval. The Project report shall include a description of work tasks and deliverables completed to date, and a description of completed benchmarks, or progress toward completing benchmarks. In any event Grantee shall provide the Commission a report showing total final Project expenditures with the final Request for Funds and required closing documents. Grantee shall submit all documentation for Project completion, as applicable, and final reimbursement by the Termination Date
- b. Final payment is contingent upon Commission verification that Project is consistent with the Scope of Work as described in Exhibit B1, together with any Commission approved amendments.
- c. Grantee must report to the Commission in the Project Budget all sources of other funds for the Project.

F. BUDGET

	1000 1000 - 1000 - 1000 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1	i in	Aron: Gosts			
Position Title	Hourly Rate (salary plus benefits, incl. fringe benefits- see guidelines [1]	# of Hours	CCC Total (# of hours x rate per hour)	OPC Total (# of hours x rate per hour)	Match/ Other Funds	Total (LCP Grant Funds + Match/ Other Funds)
Jasko Projeda Klak	off Meeting					
County Staff as needed					\$568.75	\$568.75
Total Task 1			\$0.00	\$0.00	\$568.75	\$568.75
Task2-Modelinga	iciMappingStal	keholder N	/leetings			
County Staff as needed					\$1,199.64	\$1,199.64
Total Task 2		<u> </u>	\$0.00	\$0.00	\$1,199.64	\$1,199.64
Task3=1Jadate Po	oulate Regional	Resoluce I	Database			
County Staff as needed					\$4,260.41	\$4,260.41
Total Task 3			\$0.00	\$0.00	\$4,260.41	\$4,260.41
Tesk4-Upakkepoli	cyand Planning	Tool Data	baser			
County Staff as needed				\$1,964.90	300	\$1,964.90
Total Task 4			\$0.00	\$1,964.90	\$0.00	\$1,964.90
Task 5 Vioceland	Map Coastal Ha	zards for C	limate Scen	arios -		
County Staff as needed				¢4 002 00		ć4 002 00
Total Task 5			\$0.00	\$1,902.00	ć0.00	\$1,902.00
Tesko-Analyzesoo				\$1,902.00	\$0.00	\$1,902.00
County Staff as			Maria de la companya	F		
needed					\$4,948.83	\$4,948.83
Total Task 6		* * .	\$0.00	\$0.00	\$4,948.83	\$4,948.83
TERM CENTRED	poaterthe Coasi	aliHazaro	Vulnerabilit			Minister (C
County Staff as needed				\$12,319.10		\$12,319.10
Total Task 7			\$0.00	\$12,319.10	\$0.00	\$12,319.10
TERRETORNES	ment Communit	y Stakeho	der Meetin			
County Staff as needed					\$2,984.32	\$2,984.32
Total Task 8			\$0.00	\$0.00	\$2,984.32	\$2,984.32
Task9:-Develop Nev	van ce ntance:	XISTINE (CO			777 33 - 349 59	
County Staff as needed			\$8,000.00	\$1,274.58	\$4,931.65	\$14,206.23

Total Task 9			\$8,000.00	\$1,274.58	\$4,931.65	\$14,206.23
iesko (Hawizalia)	ital review co	astal Comi	nission Coo	dination and R	<u>teview</u>	
County Staff as				\$15,539.42	\$11,999.07	\$11,999.07
needed					\$11,555.07	\$27,539.49
Total Task 10			\$0.00	\$0.00	\$11,999.07	\$11,999.07
 Task 11 – Decision M	akor Hoarings		ental Review	\$15,539.42		\$27,539.49
County Staff as		RIMICALIK	illai keview	\$ 15,539.42		\$ 15,539.42
needed				\$0.00		\$0.00
		•	¢0.00	\$15,539.42	40.00	\$15,539.42
Total Task 11			\$0.00	\$0.00	\$0.00	\$0.00
Task 12 - Coastal Co n	nmission Certif	ication <u>De</u>	cision Make	r Hearings		
County Staff as					\$13,836.70	\$13,836.70
needed						
Total Task 12			\$0.00	\$0.00	\$13,836.70	\$13,836.70
Total Labor Costs	o o o o de os estados de ostronos de o	andre () de la live d	\$8,000.00	\$33,000.00	\$44,729.37	\$85,729.37
	The second of th	FORTH:	adinadr(ब्राजा	od Sa	
			ccc			
			Grant	OPC Total	Match/Other	Total (LCP
Expense	Unit	# of	Funds	(# of hours	Funds	Grant Funds
Experies	Rate/Cost	Units	(Unit	x rate per	(Source #2)	+ Match/
,			Rate x #	hour)	(Source nz)	Other Funds)
			of Units)			
Project Supplies						
Postage/Shipping		ļ	\$0.00	\$0.00		\$0.00
Supplies/Materials			\$0.00	\$0.00		\$0.00
Total			\$0.00	\$0.00		\$0.00
		-				
Travel In State[2]						
Mileage			\$0.00	\$0.00	\$0.00	\$0.00
Hotel, etc.		1	\$0.00	\$0.00	\$0.00	\$0.00
Total		1	\$0.00	\$0.00	\$0.00	\$0.00
0.1		-				
Subcontractors[3]			27 / A 12 2 3 4 4 4			
Task 1 - Project Kick-	off Meeting	T		2.00	ni sa i sa	
Consultant			\$0.00	\$1,200.00	\$0.00	\$1,200.00
Total Task 1			\$0.00	\$1,200.00	\$0.00	\$1,200.00
Task 2 - Modeling and	d Mapping Stal	keholder N	/leetings	er en		
Consultant			\$0.00	\$7,975.91	\$0.00	\$7,975.91
Total Task 2			\$0.00	\$7,975.91	\$0.00	\$7,975.91
Task 3 – Update <u>Pop</u> t	<u>ılate</u> Regional I	Resource l	Database			
Consultant			\$0.00	\$300.00	\$0.00	\$300.00

rask4=UndateRolls	yand Planningt	roolDate	lose -				
Consultant			\$0.00	\$0.00	\$0.00	\$0.00	
Total Task 4	Maria and an example of the		\$0.00	\$0.00	\$0.00	\$0.00	
iess-Modelent N	/an Coastal Caz	action	omnesie	narios 📜 🔻			
Consultant				·			
For subtasks 5.1-5.6			\$0.00	\$112,892.25	\$0.00	\$112,892.25	
Project Management		_ · _					
				\$5,172.50		\$5,172.50	
5% Subconsultant	sa Ing						
Mark-up on Labor				\$4,151.00		\$4,151.00	
Expenses							
				\$1,875.84		\$1,875.84	
Contingency					\$10,011.00	\$10,011.00	
Total Task 5							
			\$0.00	\$124,091.59	\$10,011.00	\$134,102.59	
Task6-AnalyzeSoci	al/Economic an	G Ecolog	errat area and a service and a service area.				
Consultant		•	\$0.00	\$0.00	\$0.00	\$0.00	
Total Task 6	American National Angles (1964)	oloosiamanna vieste varaise	\$0.00	\$0.00	\$0.00	\$0.00	
activi-centisus	date the Coasta	Merejro	Millerabili	iy/Assessmemi			
Consultant			\$0.00	\$8,432.50	\$0.00	\$8,432.50	
Total Task 7		anned the control and the best to	\$0.00	\$8,432.50	\$0.00	\$8,432.50	
TERESCENIE	en Community	SEGE	lder Meetifi	gand Workshi	905 e		
Consultant			\$0.00	\$0.00	\$0.00	\$0.00	
Total Task 8			\$0.00	\$0.00	\$0.00	\$0.00	
Traske-DavelobNaW	and Finhance a	isting (c	eselleen	dPolicies			
Consultant			\$0.00	\$0.00	\$0.00	\$0.00	
Total Task 9			\$0.00	\$0.00	\$0.00	\$0.00	
TESMOLESWIZED	ENERGIE E	tal Com	mission Coc	rdination and	Review		
Consultant			\$0.00	\$0.00	\$2,260.00	\$2,260.00	
Total Task 10		•	\$0.00	\$0.00	\$2,260.00	\$2,260.00	
JESTEL MARKET		viionini	ntal Review				
Consultant			\$0.00	\$0.00	\$0.00	\$0.00	
Total Task 11	·	-	\$0.00	\$0.00	\$0.00	\$0.00	
TELEPOOR TELEPOOR		nor Do	cision Make	nHearings a			
Consultant			\$0.00	\$0.00	\$0.00	\$0.00	
Total Task 12			\$0.00	\$0.00	\$0.00	\$0.00	
	Total subcont	ractors	\$0.00	\$142,000.00	\$12,271.00	\$154,271.00	
	Total Direc	t Costs	\$0.00	\$142,000.00	\$12,271.00	\$154,271.00	
OVERHEAD / INDIRECT	COSTS[4]	- · · ·	\$0.00	\$0.00	\$0.00	\$0.00	
ing water of the same of the s			\$\$000	\$175,000	O DESTACION	11 # S 2 40000	

- [1] Amount requested for benefits not to exceed 40% of amount requested for salary or wage.
- [2] Travel reimbursement rates are the same as similarly situated state employees.
- [3] All subcontractors must be selected pursuant to a competitive bidding process that seeks at least three (3) bids from responsible bidders.
- [4] 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 Personnel."