Proposal Full View

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APPLICANT INFORMATION

Organization Name *	County of Ventura
Point Of Contact *	**Division/Address List:** County of Ventura **Address1:** 800 South Victoria Avenue **Address2:** **City:** San Buenaventura **State:** CA **Zip:** 93003 **First Name:** Martha **Last Name:** Symes **Email:** martha.symes@ventura.org **Phone (Office):** (805) 6542013
Point Of Contact Position Title *	Grants Specialist
Proposal Name *	Ventura River Levee (VR 1) Critical Repair Design Project
Proposal Objective*	Perform preliminary design, CEQA/NEPA, and final design plans, specifications and estimate preparation work that leads to levee rehabilitation construction work required to certify the Ventura River levee (VR-1). The VR-1 levee was designed by the U.S. Army Corps of Engineers in 1948, is an approximate 2.65 mile long embankment located on the east side of the river. The VR-1 levee protects a large section of the westernmost portion of the city of San Buenaventura, in Ventura County. The section of the city protected by the levee contains approximately 2.1 billion dollars of structures and contents, with a population of approximately 14,000 people living in the protected area. The protected structures are primarily residential but also include several schools, school district offices, churches, the county fairgrounds, county offices and a couple museums. State Highway 101 and State Route 33 both are also both protected by the levee. Based on recent deficiencies in the VR-1 system, the levee was listed by FEMA as `To be De-Accredited? in March of 2010. The proposed plan to rehabilitate the VR-1 levee system would involve protecting the existing levee embankment while providing additional design improvements and scour protection. Improvements include the planned construction of 3 foot thick grouted riprap toe protection on the riverside of the levee that would extend from the toedown of the existing riprap protection down to the potential scour limit. Construction work would also include

	raising the sections of the levee which currently do not meet FEMA freeboard requirements found in 44 CFR 65.10. These construction elements would thus lessen the risk of flooding caused by breeching and/or overtopping of the levee due to its current condition. The project currently has a positive benefit-cost ratio of 1.09, thus demonstrating that there are significant flood protection and flood-risk reduction benefits to completing the required levee rehabilitation work.

BUDGET

Other Contribution	$0.00
Local Contribution	$1,060,322.00
Federal Contribution	$0.00
Inkind Contribution	$0.00
Amount Requested *	$1,295,950.00
Total Proposal Cost *	$2,356,272.00

GEOGRAPHIC INFORMATION

Latitude *	**DD (+/-):**	34	**MM:**	27	**SS:**	50
Longitude *	**DD (+/-):**	119	**MM:**	0	**SS:**	0
Longitude/Latitude Clarification			**Location**			
County*	Ventura					
Ground Water Basin	Ventura River Valley-Lower Ventura River					
Hydrologic Region	South Coast					
Watershed	Ventura River					

LEGISLATIVE INFORMATION

Assembly District*	37th Assembly District
Senate District*	19th Senate District
US Congressional District*	District 26 (CA)

Project Information

PROJECT NAME: VENTURA RIVER LEVEE (VR 1) 1 CRITICAL REPAIR DESIGN PROJECT

VENTURA RIVER LEVEE (VR 1) 1 CRITICAL REPAIR DESIGN PROJECT

Implementing Organization	Ventura County Watershed Protection District
Secondary Implementing Organization	
Proposed Start Date	7/1/2016
Proposed End Date	12/27/2019
Scope Of Work	VCWPD SofW includes preliminary design, CEQA/NEPA, and final design work required to ultimately rehabilitate and certify the VR-1 levee system in compliance with 44 CFR 65.10, thereby facilitating FEMA accreditation of engineered flood protection from a 1% annual-chance flood on future DFIRMs issued for the westernmost portion of the city of San Buenaventura, in Ventura County. The SofW is grounded in the VR-1 Levee Section 216 Review of Completed Projects guidance received from the USACE.
Project Description	
Project Objective	Perform preliminary design, CEQA/NEPA, and final design work that leads to levee rehabilitation construction work required to certify the VR-1 levee system in compliance with 44 CFR 65.10 including the resolution of the following certification deficiencies present: (1) deficient toe down protection, (2) encroachment into the landward side embankment, (3) vegetation growth, (4) levee maintenance road problems along the levee toe, and (5) address channel scour during 100-year flood events.

PROJECT BENEFITS INFORMATION

No records found.

BUDGET

Other Contribution	$0.00
Local Contribution	$1,060,322.00
Federal Contribution	$0.00
Inkind Contribution	$0.00
Amount Requested*	$1,295,950.00
Total Project Cost*	$2,356,272.00

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Longitude/Latitude Clarification			**Location**			
County*	Ventura					
Ground Water Basin	Ventura River Valley-Lower Ventura River					
Hydrologic Region	South Coast					
Watershed	Ventura River					

LEGISLATIVE INFORMATION

Assembly District*	37th Assembly District
Senate District*	19th Senate District
US Congressional District*	District 24 (CA)

Section : Project Information

Applicants must answer all questions. If the question cannot be answered, the applicant must explain why the information is absent or inapplicable. At the end of this section are project specific questions depending on grant strategy being used. Applications will be ranked based on the responses given in the project information section. Specific emphasis should be directed to rating criteria sections (Appendix A and B) of the Guidelines. Proposals specifically addressing questions listed in the rating criteria section will allow DWR to accurately rank individual projects.

Question 1. Contact Information

The individuals completing this application on GRaNTS must provide contact information in the space provided below. Please denote which contact should be used for additional information regarding the project and application if needed. For each individual, please include the following:

1. Name
2. Position
3. Organization
4. Phone Number
5. Email

*

Martha Symes Grant Specialist County of Ventura, Watershed Protection District 805-654-2013 For additional information, please contact: Gerard Kapuscik Manager, Strategic Resiliency Group County of Ventura, Watershed Protection District 805-648-9284 gerard.kapuscik@ventura.org

Question 2. Contracting With State

Have you contracted with the Department of Water Resources in the past?*

a) ◉ Yes
b) ○ No

Question 3. Eligibility

Is the project levee or flood control structure eligible for grant funding under the following criteria?
(1) The project is not a part of the State Plan of Flood Control or under consideration by the State for being added to the State Plan of Flood Control.
(2) The project is not located within the Sacramento-San Joaquin Delta.
(3) The project is not an urban non-project levee in the Central Valley eligible for evaluation under Section 5096.955 (a) (2) of the Public Resources Code.*

A) ◉ Yes
B) ○ No

Question 4. Project Qualifications

Select all qualifications which may apply to the project.*

A) ☑ The project consists of repairs to levees or other flood control facilities.
B) ☑ The project will be constructed solely to repair levees that have sustained critical erosion damage or that have unstable slopes, or to stabilize other unstable flood control facilities.
C) ☑ An engineer registered in the State of California has found that the facilities in the project area are critically damaged and incapable of safely carrying the design flood flow.
D) ☑ The project is needed to protect life and property.

E) ☑ The work will consist of hydrology and hydraulic studies and the geotechnical evaluation of a levee.
F) ☑ The project consists of a levee that has exhibited seepage, underseepage, erosion or other signs of instability.

Question 5. Grant Strategy Type

The Local Levee Assistance Program (LLAP) awards grants to applicants through two program strategies. These strategies are the Local Levee Evaluation (LOLE) or the Local Levee Critical Repair (LLCR).

LOLE projects may include a Feasibility Study, Geotechnical Investigation, or a combination of both. LLCR projects may include Design, Construction, or a combination of both. Please select the strategy and project type which the applicant wishes to use from the list below. (Select only one option)*

A) ○ LOLE Feasibility Study
B) ○ LOLE Geotechnical Evaluation
C) ○ LOLE Combination Grant
D) ◉ LLCR Design
E) ○ LLCR Construction
F) ○ LLCR Combination Grant

Question 6. Executive Summary

Provide a summary of the project, including a short description of the proposed work and, for LLCR projects, the extent of the improvement expected in flood carrying capacity or stability. Provide a description of why the project is urgently needed. (4000 character limit)*

The Ventura River Levee System (VR-1) protects a large section of the city of San Buenaventura, which is located in Ventura County. The levee in question was designed by the U.S. Army Corps of Engineers and is an approximate 2.65 mile long embankment located on the east side of the river. The section of the city protected by the levee contains approximately 2.1 billion dollars of structures and contents, with a population of approximately 14,000 people living in the protected area. The protected structures are primarily residential but also include several schools, school district offices, churches, the county fairgrounds, county offices and a couple museums. State Highway 101 and State Route 33 both are also both protected by the levee. Highway 101 runs east-west through this area, while State Route 33 runs north-south, parallel with the levee. Based on recent deficiencies in the VR-1 system, the levee was listed as To be De-Accredited by FEMA in March of 2010. The deficiencies noted that the levee system had deficient toe down protection, there are encroachments into the landward side embankment, vegetation needs to be removed, and there are no geotechnical or engineering studies to verify the levee meets the NFIP Section 65.10 requirements. The levee maintenance road along the levee toe has failed in the past. This failure occurred on the upstream end of the levee and was caused by river erosion and scour. In addition to the deficiencies listed above, and the previous failure, further studies have demonstrated that this levee system would be subjected to channel scour during the 100-year flood event, which would adversely affect the

integrity of the existing levee if no remediation was completed. Thus, putting at risk the lives and structures protected by the levee. Therefore rehabilitation is urgently needed to safeguard the local community and economy. The proposed plan to rehabilitate this levee system would involve protecting the existing levee embankment while providing additional design improvements and scour protection. The improvements would include the construction of 3 foot thick grouted riprap toe protection on the riverside of the levee that would extend from the toedown of the existing riprap protection down to the potential scour limit. Also, some sections of the levee do not currently meet the FEMA freeboard requirements. Thus, the proposed construction would include raising those sections of the levee accordingly to meet the freeboard requirements. These construction elements would thus lessen the risk of flooding caused by breeching and/or overtopping of the levee due to its current condition. The project currently has a positive benefit-cost ratio of 1.09, thus demonstrating that there are significant benefits to completing the work required. The County is currently proposing to move forward with the next phase of the project which would include CEQA/NEPA and final design. Preliminary budget estimates for this levee design engineering and CEQA/NEPA work total 2.36 million. The VCWPD is requesting a 1.30 million cost share from the state of 55%, an additional 5% increase has been added due to State Highway 101 being protected by the VR-1 levee system, State LLAP grant funds are critical in assisting the VCWPD to further the VR-1 levee system toward levee certification and ultimate FEMA mapping accreditation, as well as decrease the probability that the local community will incur significant economic damages due to large flooding events in the Ventura River.

Question 7. Project Location Map

Please upload a one-page map(s) of the vicinity and the project area cleary showing the extent of the proposed work. If the legal boundary of the Sacramento-San Joaquin Delta passes through the project area map please show the boundary.*

Last Uploaded Attachments: VR-1_Maps.pdf

Question 8. CVFPB Jurisdiction

If the project lies within the jurisdiction of the Central Valley Flood Protection Board (CVFPB), the applicant must be in the process of obtaining or have already obtained the appropriate permits and must agree to comply with all CVFPB requirements. Please select the appropriate statement below for the project. If an applicant is in the process of obtaining a required permit from the CVFPB, a copy of the letter of intent must be uploaded in the additional information section.*

A) ◉ Project does not lie within jurisdiction of the CVFPB.
B) ○ All required CVFPB permits have been obtained.
C) ○ Applicant is in the process of obtaining CVFPB permit(s).

Question 9. Project Environment & History

In the form of a narrative, describe the project environment and history of the project. Provide sufficient information to enable DWR to rank the project in accordance with the criteria set forth in the Guidelines (see Appendix A of the Guidelines). If a project or evaluation lies within the jurisdiction of the CVFPB, a statement must be provided stating that the applicant is in the process of obtaining appropriate permits and will comply with all CVFPB requirements. Please be sure to address the following topics in your discussion of the project environment and history:

- Where is the project located? What type of area is being benefitted?
- Has the levee proposed for evaluation exhibited lack of hydraulic capacity, seepage, underseepage, or signs of instability in recent flood events?
- Has the levee failed previously?
- Was the levee remediated after any previous failure, overtopping, seepage or underseepage incident, or sign of instability?
- Has there been overtopping, seepage, underseepage, or a sign of instability on adjacent or nearby levees of similar construction and foundation conditions?
- Has a repair or improvement project been proposed previously for the levee proposed for evaluation?*

The Ventura River Levee system was designed and constructed by the Corps and completed in 1948. The levee (VCWPD VR-1, FEMA ID No. 53) protects existing residential and recreational properties in 2.1 square miles of low-lying areas behind the levee structure within the floodplain of Ventura River in the City of San Buenaventura, California. The levee extends along 2.65 miles of the east side of the Ventura River from the Pacific Ocean to Canada de San Joaquin with an embankment height up to 10 feet above natural ground on the landward side. The maintenance road along the levee toe failed near the upstream end due to river erosion and scour. In response to FEMA 2004 countywide map update for the National Flood Insurance Program (NFIP), the County Board of Supervisors approved an initial contract authorizing VCWPD to retain Tetra Tech to perform field investigations, conduct evaluations, and prepare documents relating to certification pursuant to FEMA regulatory requirements, Title 44 CFR Section 65.10. Tetra Tech completed a report, FEMA Levee Certification, Ventura County, California, Ventura River Levee (VR-1), Pacific Ocean to Canada de San Joaquin, Evaluation Report, February 2009 that identified 44 CFR 65.10 deficiencies in the VR-1 levee system. The field investigation and hydrology and hydraulic analysis summarized in the Evaluation Report identified several critical issues that needed to be resolved prior to certification including: 1. deficient toe down protection; 2. encroachments into the landward side embankment upstream of the ocean outlet and upstream of Main Street; 3. vegetation removal; and 4. Lack of geotechnical and engineering analyses to verify that this levee meets the NFIP Section 65.10 requirements. Because these issues could not be resolved within the PAL evaluation period, FEMA issued a March 26, 2010 letter in which the levee Status of VR-1 is listed as -To be De-Accredited- pursuant to CFR 65.10. In addition, the Corps issued a Periodic Inspection Report in June 2011 identifying a number of issues with the condition of the levee. To address the critical issues, VCWPD and their consultants developed an Alternatives Design consistent with Section 216 of the Flood Control Act of 1970. The work was performed under a second Board of Supervisors approved contract. This work will be the basis of engineering design of repairs to address identified structural and geotechnical deficiencies. The costs of the next phase which will include CEQA and final design are the basis for this LLCR grant request. In the event of failure, the topographic slope of the floodplain protected by the levee system would convey flood water in a southerly direction. The floodplain behind the levee encompasses 1,080 acres and

includes residences, commercial properties and two state highways, SR 33 and US 101 as well as the main Southern Pacific Rail Road line. Highway US 101 is the main transportation route along the California coast between Los Angeles and Salinas. Failure of the levee system due to a major flood event would affect 14,109 people within the protected area and put at risk an estimated $2.1 Billion in structure and content values, thus severely affecting the overall economy of both the City of San Buenaventura and the County of Ventura.

Question 10. Project Benefits

In the form of a narrative, describe the benefits of the project and provide sufficient information to enable DWR to rank the project in accordance with the criteria set forth in the Guidelines (see Appendix A of the Guidelines). Please be sure to address the following topics in your discussion of the project benefits:

- Protection of lives and property – Describe how the proposed work has the potential of protecting lives. What is the population of the area being benefitted?
- Protection of property and critical infrastructure – Describe how the project has the potential to protect against property damage or damage to critical infrastructure such as highways, streets, bridges, hospitals, public buildings, dams, etc.
- Flooding characteristics – Discuss the project's potential to protect against a great depth of flooding. What is the current level of protection? What depth of flooding is the benefitted area being protected against? What are the current and post-project probabilities of occurrence of flooding?

If the project is part of a larger regional project with greater flood benefits, supporting information describing the scope and benefits of the larger project is needed along with a funding summary. If the project is using benefits from a project larger than what will be funded by the awarded grant, the feasibility of the larger project must be verified both technically and financially. Provide sufficient information to enable DWR to develop a flood benefit ranking for the larger project.
*

The VR-1 Levee system was designed and constructed in 1948. The levee extends 2.65 miles along the eastside of the Ventura River in the City of San Buenaventura. The levee protects a large area of residential, commercial, industrial and public facilities. Field investigations and hydrology and hydraulic analysis found several critical issues that led to FEMA de-accrediting the levee system. If this system failed there would be significant impacts to the overall economy of the surrounding areas and county as the major transportation route would be inundated along with a large section of various structure types being damaged. The VR-1 Levee protects a large section of residential neighborhoods within the City of San Buenaventura. These neighborhoods consist of a general mix of single family, multi-family (condominiums), and apartment structures. In total there is an estimated 3,399 residential parcels, and once accounting for estimated multiple units, a total of approximately 4,679 individual households. Based on census data for Ventura County and the number of residential units, it is estimated that approximately 14,109 persons are currently living in the area protected by this levee system. A large portion of these residential structures are located in neighborhoods that are within 1,000 feet of the levee. In addition to the 3,399 individual residential parcels there are an estimated 101 commercial, 19 industrial and 15 public parcel types. Many of

these parcels contain more than one structure or unit. The public parcels consist of Sheridan Way Elementary School, Ventura Charter School of Arts and Global Education, Ventura Unified School District Offices, City of Ventura Fire Station No. 1, as well as several museums and churches. The levee also protects several large business and industrial complexes, and the Ventura County Fairgrounds. The downstream end of the levee also protects nearly 7,200 feet of Highway 101 and the large highway bridge that spans the channel. State Route 33 also runs parallel to the levee through this reach and would also be inundated by the 100-year flows. Union Pacific also has a rail line running parallel to Highway 101 through the protected area. In all, it is estimated that the total depreciated replacement value of all structures and contents protected by the SCR-1 Levee is excess of 2.1 billion dollars. This value, along with the other data listed, was calculated from the FEMA census block data. Of this 2.1 billion dollars, approximately 1.3 billion is the estimated for the residential structure and content values. Based on the results of a risk and uncertainty analysis, it was determined that the existing levee has a 0.5-percent chance of flooding in a given year due to overtopping. This R&U analysis also located four stations along the levee, of seven analyzed, that were most vulnerable, and estimated to have less than a 90-percent chance of containing flows from a 100-year event. Thus, the levee does not meet the NFIP levee system requirements. Using FEMA HAZUS-MH programming, flood events were modeled and depths within the protected area were estimated up to approximately 12 feet for the 100-year event. The proposed levee design would decrease the chances of overtopping at these four locations to a level that is sufficient to meet the NFIP requirements. The Economic Analysis Memorandum for VR-1 that is attached to this grant, calculated a benefit-cost ratio based on the total estimated annual damages, and the total project costs. Once accounting for the total annual benefits and total project costs annualized over the proposed 50 year lifespan, a benefit-cost ratio of 3.91 was generated.

Question 11. Scope of Work & Task Breakdown

Provide a breakdown of the project into tasks such as permitting, technical evaluations, design work, advanced preparation for right of way acquisition, environmental work, etc. Describe the extent of the proposed work, the methods planned to perform the work, and the potential for discovery of critical conditions requiring additional work.

Describe each task fully and correlate construction tasks to the items and quantities in the construction estimate. Tasks should be listed numerically and include subtasks if necessary.
*

Last Uploaded Attachments: VR-1 Scope of Work.pdf

Question 12. Schedule

Provide a project schedule in the same format structure as the project task breakdown. The schedule should be displayed as a gantt chart and show the number of calendar days needed to complete the project. Provide an estimate of the required construction period, a discussion of the quality of the estimate, and a statement of the expected completion date relative to the next two flood seasons (November through April).
*

Last Uploaded Attachments: VR-1 Schedule.pdf

Question 13. Budget

Provide a project budget in a table in the same format structure as the project task breakdown. Briefly discuss the estimated project cost and financial resources to be utilized in meeting those costs. At minimum, the budget table should include columns for tasks, total overall eligible costs, State cost share, and local cost share. If design work is included as part of the proposal, include a financial plan as described in the Guidelines.
*

Last Uploaded Attachments: VR-1 Budget.pdf

Question 14. State Cost Share Amount

Please provide the requested State Cost-Share for the project (ie. please provide a breakdown and explain why your project is eligible for more than the base 50% cost share).

This section should include:
(1) The overall project amount, local cost share, and requested State cost share
(2) The sources and amounts of any other funds to be applied toward the study
(3) Justification for the proposed cost-share percentage (ie describe or discuss any enhancements in detail)
*

For the VR-1 LLCR application, the County requests $1,295,950 of LLAP grant funds, which equates to 55% of the estimated total project costs of $2,356,272. An additional 5% has been added to the State?s 50% base cost share because of the stretch of U.S. Highway 101 that is protected by this levee system. US 101 continues to be the major coastal north?south route that links the Greater Los Angeles Area, the Central Coast, the San Francisco Bay Area, and the North Coast (Redwood Empire). Based on FEMA floodplain mapping, Highway 101 would be inundated during a 100-year event. Please see the table of overall project amount, local cost share, and requested State cost share in Additional Documents.

Question 15. Environmental Stewardship

Environmental stewardship is a concept and commitment of responsibility to manage and protect natural resources (water, air, land, plants and animals) and ecosystems in a sustainable manner that ensures they are available for future generations. The goal of environmental stewardship is to create human systems consistent with natural systems, where each is ultimately sustainable.

The applicant agrees to embrace the Department's mission of environmental stewardship: "To manage the water resources of California in cooperation with other agencies, to benefit the State's people, and to protect, restore, and enhance the natural and human environments."*

A) ◉ Yes
B) ○ No

Question 16. Environmental Stewardship Opportunities

In the space below, please provide an explanation of the opportunities the project will engage to manage and protect natural resources and ecosystems in a sustainable manner. Will the project contribute to ecosystem restoration?*

The VR-1 project provides opportunities to engage, manage and protect natural resources and ecosystems in a sustainable manner. The purpose of the project is to correct levee deficiencies to ensure full compliance with Federal Levee Certification requirements (i.e. 44 CFR 65.10) and provide protection from a 1% annual chance flood for residential, commercial, industrial properties and critical local public infrastructure located behind this de-certified levee/floodwall. By keeping the storm flows in the Ventura River, water quality degradation is reduced. When urban areas are flooded, water carries debris and pollutants from the urban areas back into the rivers via the storm drains. In addition, aquatic life can be carried out of the riverbed and stranded on uplands and floodplains, These conditions will be avoided by implementation of the project. The Ventura River is a relatively wide river which has historically exhibited braided-flow patterns. Because of this hydraulic condition, it is not possible to predict the location of future high-angled flow impingements on VR-1. As such it is expected that long term channel degradation in the Ventura River bed, which has occurred since the construction of VR-1 in the 1950s, will continue without implementation of the project. The project will remedy the toe down deficiency and prevent undermining and failure of the levee due to further toe-down scour. Retraining the Ventura River away from the toe of the levee through the construction of rock groins or bendway weirs may reduce vegetation losses in the channel during storm events. Deep rooted willows and native shrubs would be able to establish and persist through storm events better than under pre-project conditions. Furthermore, repairing eroded slope areas and restoring slope protection rip-rap to as-built conditions as part of the project would prevent bank erosion, which can increase turbidity and then deposit in downstream reaches of the river, potentially smothering aquatic life. Existing vegetation within the project area comprises both native and non-native species. It is anticipated that mitigation for potential project impacts may include removal of non-native species in the work area. If this mitigation option is selected, the project area would be maintained free of non-native vegetation for a five year period following construction to encourage natural recruitment of native riparian plants in the channel bottom. Deep rooted willows and native shrubs would be able to establish and persist through storm events better than under pre-project conditions. This would increase the natural functions and values of the channel by creating more habitat opportunities for plants and wildlife. Such changes may ultimately support greater populations of endangered least Bell?s vireo, Southwestern willow flycatcher, and California red-legged frog, as well as shade for migrating endangered steelhead trout.

Question 17. FEMA Accreditation

In the space below, please provide a statement describing the status of the levee or structures accreditation by FEMA and the likelihood of becoming unaccredited.*

On August 31, 2007, FEMA sent a letter to VCWPD initially identifying sixty levees or levee-like situations in Ventura County that might provide base flood protection from a 1% annual-chance

flood, including the VR-1 Levee (FEMA ID No. 53). The VR-1 levee protects existing residential and recreational properties in 2.1 square miles of low-lying areas behind the levee structure within the floodplain of Ventura River in the City of San Buenaventura, California. On November 27, 2007 VCWPD submitted a Two-Year Provisionally Accredited Levee (PAL) designation request letter to FEMA for the VR-1 levee system. On June 5, 2008 FEMA confirmed VCWPD request for a PAL-designation status for the VR-1 levee, and established a December 1, 2009 deadline for the submittal of all levee certification evaluation information required by 44 CFR 65.10. The VCWPD was unable to certify the VR-1 levee, in its existing condition, in conformance with applicable requirements of 44 CFR 65.10 by the expiration of the PAL-Designation period in December 2009. Accordingly, in March of 2010, FEMA listed the status of the VR-1 Levee as To be De-Accredited, due to several critical issues which could not be resolved during the PAL evaluation period. Critical issues included: (1) deficient toe down protection, and (2) encroachments into the landward side embankment upstream of the ocean outlet and upstream of Main Street, and (3) vegetation removal. An analysis of profiles along the existing thalweg and levee toe down revealed that approximately 1.4 miles of the Ventura River thalweg, from Station 64+00 to Station 138+50, is either below or very close to the existing levee toe down. There are no geological features, such as bedrock, or manmade feature, such as rock groins, that would prevent the thalweg of the river from migrating toward the levee and undermining the toe down. Thus, the existing levee has a reasonable failure potential due to toe down undermining during major flood events and cannot be certified in its current condition. The VCWPD is proactively addressing VR-1 levee critical issues through the implementation of a final design study based on the feasibility design alternative selected in the April 2012, Final VR-1 Alternatives Report. Based on census data for Ventura County and the number of residential units, it is estimated that approximately 14,109 persons are currently living in the area protected by this levee system. A large portion of these residential structures are located in neighborhoods that are within 1,000 feet of the levee. In addition to the 3,399 individual residential parcels there are an estimated 101 commercial, 19 industrial and 15 public parcel types. Many of these parcels contain more than one structure or unit. The public parcels consist of Sheridan Way Elementary School, Ventura Charter School of Arts and Global Education, Ventura Unified School District Offices, City of Ventura Fire Station No. 1, as well as several museums and churches. The levee also protects several large business and industrial complexes, and the Ventura County Fairgrounds. The downstream end of the levee also protects nearly 7,200 feet of Highway 101 and the large highway bridge that spans the channel. State Route 33 also runs parallel to the levee through this reach and would also be inundated by the 100-year flows. The floodplain behind the levee encompasses 1,080 acres and includes residences, commercial properties and two state highways, SR 33 and State Highway 101 as well as the main Southern Pacific Rail Road line. Highway 101 is the main transportation route along the California coast between Los Angeles and Salinas. Failure of the levee system due to a major flood event would affect 14,109 people within the protected area and put at risk an estimated $2.1 Billion in structure and content values, thus severely affecting the overall economy of both the City of San Buenaventura and the County of Ventura.

Question 18. Contracting With State (Statutory Enabling Laws)

In the space below, please include citations of the applicant's statutory enabling laws, authority to conduct the project, and authority to contract with the State, including a brief description of the procedural steps required by the applicant's enabling laws to contract with the State. Additional information can be uploaded in the "Additional Information" section of the PSP.*

The Ventura County Watershed Protection District (District) was created as a subdivision of the State of California on September 12, 1944, by act of the California State legislature, Chapter 46 of the Statutes of the 1944 Fourth Extraordinary Session (California Water Code Appendix, Chapter 46 [Act]). The objects and purposes of the District as set out in Section 7 of the Act are to provide for the control of the flood and storm waters of the District, and the flood and storm waters of streams that have their source outside of the District but which flow into the District. The boundaries of the District as defined in Section 1 of the Act are all of the territory of the County of Ventura lying within the exterior boundaries of the county but excluding the islands of Anacapa and San Nicolas. Section 7 of the Act declared the District to be a body corporate and public and, as such, has the legal authority to enter into a grant or funding contract with the State of California. In order to enter into such a contract, the District is required to have their board, the Ventura County Watershed Protection District Board of Supervisors, adopt a resolution authorizing such contract. Such approval must be granted at a public meeting held in accordance with the requirements of the Brown Act. Approval of contracts requires a majority vote of the board. In the case of this application, the Board approved application following the above procedure at their March 3, 2015 regular meeting. The District is not required to hold an election before entering into a funding contract, nor are funding agreements between the District and the State subject to review or approval by any other governmental agency. There is no pending litigation that would adversely impact the financial condition of the District or the operation of flood management facilities.

Section : Required Documents

All requested forms are required. If a form is not provided by the Applicant, the application will be deemed incomplete. Electronic copies of these forms can be downloaded from the LLAP webpage at http://www.water.ca.gov/floodmgmt/fpo/sgb/llap/.

Project Information Form

Please upload the Project Information Form. *

Last Uploaded Attachments: Project-Information-Form VR 1.pdf

Registered Engineer's Letter

Please upload a one page letter describing the purpose of the project and why it is urgently needed. The letter will be used as a cover letter formally submitting the application and will need to be stamped and signed by a registered California Civil Engineer.*

Last Uploaded Attachments: VR-1 Letter.pdf

Authorizing Resolution

Please upload a copy of the Authorizing Resolution from the applican'ts governing body authorizing a designated representative to sign documents on behalf of the governing body and to submit the project application. Please use the template which can be downloaded from the LLAP webpage. If a different form is required by the applicant's governing body, the form must contain all information in the template.*

Last Uploaded Attachments: Certified Resolution - LLCR.pdf

Certifications and Signatures

Please upload the Certifications and Signatures Form. *

Last Uploaded Attachments: VR-1 Certifications and Signatures.pdf

Attorney's Certification

Please upload the Attorney's Certification Form.*

Last Uploaded Attachments: Attorney Certification Form Signed.pdf

Environmental Information Form

Please upload the Environmental Information Form. *

Last Uploaded Attachments: Environmental Information Form Signed LLCR.pdf

Labor Compliance

Please provide written evidence that your organization complies with the Labor Compliance Program (LCP) requirement as required by the LLAP Guidelines (ie a signed letter statement or certificate).

Public Resources Code §75075 requires the body awarding a contract for a public works project financed in any part with funds made available by Proposition 84 to adopt and enforce a labor compliance program pursuant to California Labor Code §1771.5(b). Compliance with applicable laws, including California Labor Code provisions, will become an obligation of the grantee under the terms of the grant agreement. A grant agreement cannot be executed without an approved labor compliance program in place or proof of exemption.

For further information on the LCP requirements, refer to the Department of Industrial Relations website links below:
http://www.dir.ca.gov/lcp.asp
http://www.dir.ca.gov/lcp/lcplist.asp?lcptype=bond
http://www.dir.ca.gov/dlse/dlsePublicWorks.html
*

Last Uploaded Attachments: Labor Compliance Program.pdf

Median Household Income

If applicable, please upload documentation of the Median Household Income of the benefited area.

Initial Financial Plan

Please upload the project's Initial Financial Plan, as is described in section 2.12 of the LLAP Guidlines Document. For LLCR projects, the Initial Financial Plan must include a Cost Benefit Ratio and information supporting calculation of the ratio.*

Last Uploaded Attachments: VR-1 Levee LLCR Grant IFP (3-17-15).pdf,VR-1_Benefit Cost Analysis Report_20150316.pdf

Section : Additional Documents

If an applicant is not able to upload all requested information into the space provided under another section of this PSP, the applicant may upload that information here. Applicants can save space by using the "zip" function on their computer to condense file sizes. If applicant information exceeds the limits provided here, please upload the data to a server and provide an FTP or URL link that the file can be downloaded from.

LOLE PROJECTS (STUDIES & EVALUATIONS)

Reports

Please upload a report that presents any existing drilling and geologic information, fluvial geomorphologic evaluation, and any existing geotechnical analysis upon which the Scope of Work is based. If necessary, please use the additional documents section below to upload more information.

Past Evaluations

Please upload any evaluations or documents previously prepared that support the current application. If necessary, please use the additional documents section below to upload more information.

LLCR PROJECTS (DESIGN & CONSTRUCTION)

Previous Evaluations

Please upload a copy of the feasibility study, alternatives analysis, and/or evaluation preceding this design or construction project. Include technical and financial supporting information, demonstrating the project is economically feasible. Please see the LLAP Guidelines definition of alternatives analysis for more information on requirements. If necessary, please use the additional documents section below to upload more information.

Last Uploaded Attachments: Evaluation Report_VR-1_20080220.pdf,07_VR-1 CTP Report Final (August 2014).pdf,06_VR-1 Section 216 - Initial Appraisal Report (August 2013).pdf,05_VR-1

USACE Periodic Inspection Executive Summary (June 2012).pdf,04_VR-1 Sec. 905 (B) (WRDA 86) Draft Final Report (April 2012).pdf

Design Criteria

Please upload a list of all criteria, standards, and guidelines used by the project designer.

Last Uploaded Attachments: design manual.pdf

Plans, Specs, and Estimates

If the project has a completed design, please upload a copy of the project's construction documents, including plans, specifications, and cost estimates. These items must be prepared and signed by an Engineer licensed pursuant to California law. If the project requires design work, please upload any available preliminary design reports, plans, or estimates.

ADDITIONAL DOCUMENTS

Please upload any additional documents which may be available related to the project, including, but not limited to, the following:
Engineering Reports or Analysis
Technical Analysis
Fiancial Information
Economic Information
Environmental Issues
Legal Analysis
Justifications

Additional Documents 1

Last Uploaded Attachments: 03b_VR-1 100% Draft Feas. Level Alternatives Document Appendices (April 2012).pdf,03a_VR-1 100% Draft Feas. Level Alternatives Document (April 2012).pdf,02_VR-1 Draft White Paper for Design Deficiency Report (June 2011).pdf,01_VR-1 Levee Evaluation Report (Feb 2009).pdf

Additional Documents 2

Additional Documents 3

Last Uploaded Attachments: VR-1 State Cost Share Calculation Spreadsheet.pdf
Additional Documents 4
Additional Documents 5
Additional Documents 6
Additional Documents 7
Additional Documents 8