

Proposal Full View

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Applicant Information

Organization Name San Bernardino County Flood Control District * *
 Tax ID 956002748
 Proposal Name Cactus Basin No. 3 Stormwater Flood Reduction Project * *

Proposal Objective
 The Project is designed to attenuate peak storm flows and detain runoff prior to entering the Rialto Channel, so that the design of the ultimate channel improvements will safely and effectively handle the expected runoff. The design of the basin outlets and the channel are based on the size and type of channel that can be built to ultimate condition considering the right-of-way limitations in a highly urbanized area. The basin will be earthen bottom and will include inlet, outlet and transition structure, channels and/or closed conduits, wingwalls, headwalls, cutoff walls, basin embankments, emergency spillways, access roadways along tops of the embankments and around the basins, and access ramps to the basin floor, and a habitat restoration area (Basin 3A). Additionally, the SBCFCD will hydroseed the Project site with an alluvial fan sage scrub seed mix. An area immediately east of Basin 3A will be reserved as a riparian habitat revegetation area in which cuttings will be installed and seeded-over in accordance with the Habitat Restoration/Revegetation Plan (draft attached). The loss of alluvial fan sage scrub will also be mitigated off-site by preserving approximately 45 acres of reserve mitigation land. The proposed footprint of the basin is approximately 46 acres. The primary objective is to reduce the peak flow rate through the undersized facilities of the Rialto Channel and its road crossings. Secondary goals include enhancement of water recharge and debris/sediment removal. Currently, recharge is on hold until the EPA and the RWQCB agree on a nearby perchlorate contamination issue. An auxiliary objective is to extend the Class I Bike Path around Cactus Basins 3-5 upon completion of all three basins, with educational displays. * *

Budget

Other Contribution	\$1,000,000.00
Local Contribution	\$5,719,581.00
Federal Contribution	\$0.00
Inkind Contribution	\$0.00
Amount Requested	\$5,719,581.00 *
Total Project Cost	\$12,439,162.00 *

Geographic Information

Latitude * DD(+/-) 34 MM 0 SS 21
 Longitude * DD(+/-) 117 MM 2 SS 12

Longitude/Latitude Clarification Location Northwest corner of Baseline Road and Cactus Avenue, City of Rialto

County San Bernardino *
 Ground Water Basin Upper Santa Ana Valley-Rialto-Colton
 Hydrologic Region South Coast
 Watershed Santa Ana River

Legislative Information

Assembly District 47th Assembly District *
 Senate District 20th Senate District *
 US Congressional District District 31 (CA) *

Project Information

Project Name Cactus Basin No. 3 Stormwater Flood Reductic

Implementing Organization	San Bernardino County Flood Control District
Secondary Implementing Organization	
Proposed Start Date	1/31/2014
Proposed End Date	11/6/2014
Project Scope	The scope of work will include mobilization, site preparation, construction, and maintenance activities and reporting. Site preparation will include all BMPs required, and clearing and grubbing. Construction work will include the final excavation and grading of the basin, construction of inlet/outlet structures, embankments, emergency spillway, access roads, ramps, recharge levees and equipment, habitat restoration, and hydroseeding.
	The Project is designed to attenuate peak storm flows and detain runoff prior to entering the Rialto Channel, so that the design of the ultimate channel improvements will safely and effectively handle the expected runoff. The design of the basin outlets and the channel are based on the size and type of channel that can be built to ultimate condition considering the right-of-way limitations in a highly urbanized

Project Description	<p>area. The basin will be earthen bottom and will include inlet, outlet and transition structure, channels and/or closed conduits, wingwalls, headwalls, cutoff walls, basin embankments, emergency spillways, access roadways along tops of the embankments and around the basins, and access ramps to the basin floor, and a habitat restoration area (Basin 3A). Additionally, the SBCFCD will hydroseed the Project site with an alluvial fan sage scrub seed mix. An area immediately east of Basin 3A will be reserved as a riparian habitat revegetation area in which cuttings will be installed and seeded-over in accordance with the Habitat Restoration/Revegetation Plan (draft attached). The loss of alluvial fan sage scrub will also be mitigated off-site by preserving approximately 45 acres of reserve mitigation land. The proposed footprint of the basin is approximately 46 acres.</p>
Project Objective	<p>The primary objective is to reduce the peak flow rate through the undersized facilities of the Rialto Channel and its road crossings. Secondary goals include enhancement of water recharge and debris/sediment removal. Currently, recharge is on hold until the EPA and the RWQCB agree on a nearby perchlorate contamination issue. An auxiliary objective is to extend the Class I Bike Path around Cactus Basins 3-5 upon completion of all three basins, with educational displays.</p>

Project Benefits Information

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Flood Protection	539	Flood Reduction
Secondary	Water Storage -- Groundwater-Water Supply Enhancement	5000	Groundwater Recharge
Tertiary	Trail construction/Improvement	2.20	Walking Trail
Tertiary	Other	0	Riparian Habitat

Project Objective

Budget

Other Contribution	<input type="text" value="1000000"/>
Local Contribution	<input type="text" value="5719581"/>
Federal Contribution	<input type="text" value="0"/>
Inkind Contribution	<input type="text" value="0"/>
Amount Requested	<input type="text" value="5719581"/>
Total Project Cost	<input type="text" value="12439162"/>

Geographic Information

Latitude DD(+/-) MM SS

Longitude DD(+/-) MM SS

Longitude/Latitude Clarification Location

County San Bernardino Ground Water Basin Upper Santa Ana Valley-Rialto-Colton Hydrologic Region South Coast WaterShed

Santa Ana River

Legislative Information

Assembly District	47th Assembly District
Senate District	20th Senate District
US Congressional District	District 31 (CA)

Section : Applicant Information Question Tab

APPLICANT INFORMATION QUESTION TAB

Q1. PROPOSAL DESCRIPTION

Provide a brief abstract of the Proposal, including a listing of individual project titles.

The proposed Cactus Basin 3 Stormwater Flood Reduction Project is designed to attenuate peak storm flows and detain runoff prior to entering the Rialto Channel, so that design of the ultimate channel improvements will safely and effectively handle the expected runoff. The design of the basin outlets and the channel are based on the size and of channel that can be built to ultimate condition considering the right-of-way limitations in a highly urbanized area. The basin will be earthen bottom and will include inlet, c and transition structure, channels and/or closed conduits, wingwalls, headwalls, cutoff walls, basin embankments, emergency spillways, access roadways along tops of the embankments and around the basins, and access ramps to the basin floor, and a habitat restoration area (Basin 3A). Additionally, the SBCFCD will hydroseed the Project site an alluvial fan sage scrub seed mix. An area immediately east of Basin 3A will be reserved as a riparian habitat revegetation area in which cuttings will be installed and see over in accordance with the Habitat Restoration/Revegetation Plan (draft attached). The loss of alluvial fan sage scrub will also be mitigated off-site by preservin 45 acres of reserve mitigation land. The proposed footprint of the basin is approximately 46 acres. The primary goal is to increase the level of flood protection to the thousa homes and businesses within the floodplain. Ultimately, Cactus Basins 4 and 5 must be constructed along with improvements to Rialto Channel in order to protect against the year flood. Award of this grant for Basin 3 will allow us to build Basins 4 & 5 several years earlier than current projections indicate. A secondary goal is enhancement of w recharge, in keeping with SAWPA's IRWM Plan. The Flood Control District has partnered with the San Bernardino Valley Municipal Water District in an effort to utilize C Basin 3, as well as Basins 4 & 5 in the future, for stormwater and import water recharge to the groundwater basin. Currently, recharge is on hold until the EPA and the RWQ come to an agreement over a nearby perchlorate contamination issue. The SBVMWD has argued that water recharge is absolutely necessary in any plan to filter the perchlo from the groundwater table. We understand the EPA is in agreement and we are hopeful that the RWQCB will also state its agreement in the very near future. Another secon

goal is that even without the recharge component, there is a degree of water quality improvement anticipated by capturing and detaining the runoff, removing debris, and keep runoff within the drainage facilities instead of running on paved streets through industrial areas. The Flood Control District and City of Rialto's auxiliary objectives will be to together to approve appropriate multi-use functions for the basin, such as extending the City's Class I Bike Path around Cactus Basins 3-5 upon completion of all three basins. Also, an educational exhibit will be placed somewhere along the bike path, probably near the habitat restoration area, to explain the Cactus Basin and Rialto Channel storm water system and the habitat restoration area. The population of the Santa Ana River watershed area was just under six million in 2010 and projections suggest the population will increase to nearly 10 million by 2050. The population of the City of Rialto increased 7.9% from 2000 to 2010. These basins will provide much needed groundwater recharge regulators and water providers agree on allowing recharge in these basins.

Q2. PROJECT DIRECTOR

Provide the name and details of the person responsible for executing the grant agreement for the applicant. Persons that are subcontractors to be paid by the grant cannot be listed as the Project Director.

Kevin Blakeslee, P.E., Deputy Director, Flood Control District 825 East 3rd Street, Room 100 San Bernardino, CA, 92415-0835 Tel: (909) 387-7918 FAX: (909) 387-806 kblakeslee@dpw.sbcounty.gov

Q3. PROJECT MANAGEMENT

Provide the name and contact information (including email) of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.

Melissa Walker, P.E., Chief - Flood Control District Planning Division 825 East 3rd Street, Room 100 San Bernardino, CA, 92415-0835 Tel: (909) 387-8120 FAX: (909) 387-8130 mwalker@dpw.sbcounty.gov

Q4. APPLICANT INFORMATION

Provide the agency name, address, city, state and zip code of the applicant submitting the application. Also provide the name and contact information of the person filling out the online application.

San Bernardino County Flood Control District 825 East 3rd Street San Bernardino, CA 92415-0835 Harold Zamora, P.E. 825 East 3rd Street, Room 122 San Bernardino, CA 92415-0835 Tel: (909) 387-8124 hzamora@dpw.sbcounty.gov

Q5. ADDITIONAL INFORMATION

Provide the IRWM funding area(s) in which projects are located.

<http://www.water.ca.gov/irwm/grants/fundingarea.cfm>

IRWM Region: Santa Ana Watershed Project Authority (SAWPA) POC: Jeff Beehler, 11615 Sterling Avenue, Riverside, California 92503, (951) 354-4239

Q6. RESPONSIBLE REGIONAL WATER QUALITY CONTROL BOARD(S)

List the name of the Regional Water Quality Control Board (RWQCB) in which your proposal is located. For a region that extends beyond more than one RWQCB boundary, list the name of each Board.

http://www.waterboards.ca.gov/waterboards_map.shtml

Santa Ana RWQCB Region 8 3737 Main Street, Suite 500 Riverside, CA 92501-3339 (951) 782-4130

Q7. ELIGIBILITY

Is the application from an IRWM region approved in the Region Acceptance Process (RAP)? To verify, see RAP website:

<http://www.water.ca.gov/irwm/grants/rap.cfm> . If yes, include the name of the IRWM region. If not, explain.

Santa Ana Funding Area

Q8. ELIGIBILITY

Please specify whether the applicant is a local public agency or non-profit organization as defined in Appendix B of the 2012 Guidelines.

The San Bernardino County Flood Control District is a local agency, covering the entire county.

Q9. ELIGIBILITY

List the urban water suppliers that will receive funding from the proposed grant. Please provide the agency name, a contact phone number and e-mail address.

Those listed must submit self certification of compliance with CWC §525 et seq. and AB 1420, see Attachment 10. If there are none, so indicate and answer "NA" for Q10 and Q11.

There are no urban water suppliers that will receive funding from this grant. All funds will be used by the Flood Control District.

Q10. ELIGIBILITY

Have all of the urban water suppliers, listed in Q9 above, submitted complete Urban Water Management Plans (UWMPs) to DWR? Have those plans been verified as complete by DWR? If not, explain and provide the anticipated date for having a complete plan.

Answer "NA" if no urban water supplier identified in Q9 above.

N/A

Q11. ELIGIBILITY

Have any urban water suppliers listed in Q9 recently submitted AB 1420 compliance tables and supporting documentation to DWR for a different grant program on or after November 1, 2012? If so, please list the urban water supplier and the grant program. An urban water supplier must submit AB 1420 compliance documentation to DWR. If the urban water supplier has not submitted AB 1420 documentation, or that documentation was determined to be incomplete by DWR, the urban water supplier's projects will not be considered eligible for grant funding. Refer to Section III.B of the 2012 Guidelines for additional information.

Answer "NA" if no urban water supplier identified in Q9 above.

N/A

Q12. ELIGIBILITY

Does the Proposal include any groundwater projects or other projects that directly affect groundwater levels or quality? If so, provide the name(s) of the project(s) and list the agency(ies) that will implement the project(s).

Answer "NA" if the Proposal does not include groundwater projects or other projects that directly affect groundwater levels or quality.

The Cactus Basin 3 Stormwater Flood Reduction Project will include groundwater recharge when an agreement is reached between the EPA and the RWQCB regarding the plan for groundwater recharge to assist with the perchlorate plume cleanup effort. The Flood Control District will partner with the San Bernardino Valley Municipal Water Agency to implement the groundwater recharge program.

Q13. ELIGIBILITY

For the agency(ies) listed in Q12, how has the agency complied with CWC §10753 regarding Groundwater Management Plans (GWMPs), as described in Section III.B of the 2012 Guidelines?

Answer "NA" if the Proposal does not include groundwater projects or other projects that directly affect groundwater levels or quality.

The San Bernardino Valley Municipal Water Agency is one of the five Member Agencies affiliated with SAWPA's OWOW plan, which is the IRWMP for the Santa Ana Region. The San Bernardino County Flood Control District has adopted the SAWPA/OWOW plan.

Q14. ELIGIBILITY

List the agricultural water suppliers that will receive funding from the proposed grant. Please provide the agency/organization name, a contact phone number and e-mail address. If there are none, so indicate and answer "NA" for Q15.

N/A

Q15. ELIGIBILITY

Have all of the agricultural water suppliers, listed in Q14 above, submitted complete Agricultural Water Management Plan to DWR? Have those plans been verified as complete by DWR? If the plan has not been submitted, please indicate the anticipated submittal date.

Answer "NA" if no agricultural water suppliers were identified in Q14 above.

N/A

Q16. ELIGIBILITY

List the surface water diverters that will receive funding from the proposed grant. Please provide the agency/organization name, a contact phone number and e-mail address. If there are none, so indicate and answer "NA" for Q17 below.

N/A

Q17. ELIGIBILITY

Have all of the surface water diverters, listed in Q16 above, submitted surface water diversion reports in compliance with requirements outlined in Part 5.1 (commencing with §5100) of Division 2 of the CWC? If not, explain and provide the anticipated date for meeting the requirements. Answer "NA" if no surface water diverters identified in Q16 above.

N/A

Q18. ELIGIBILITY

List the groundwater users that will receive funding from the proposed grant. Please provide the agency/organization name, a contact phone number and e-mail address. If there are none, so indicate and answer "NA" to Q19.

N/A

Q19. ELIGIBILITY

Have all of the groundwater users, listed in Q18 above, met the requirements of DWR's CASGEM Program: <http://www.water.ca.gov/groundwater/casgem/>? If not, explain and provide the anticipated date for meeting the requirements. Answer "NA" if no groundwater users were identified in Q18 above.

N/A

Section : Application Attachments Tab**APPLICATION ATTACHMENTS TAB****ATTACHMENT 1: AUTHORIZATION AND ELIGIBILITY REQUIREMENTS**

Upload Authorization and Eligibility documentation here. Ensure file name is consistent with Section V of the Stormwater Flood Management PSP.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 character.

Last Uploaded Attachments: Eligible.pdf

Upload additional Authorization and Eligibility documentation here, if necessary.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 character.

ATTACHMENT 2: PROOF OF FORMAL ADOPTION

Upload Proof of Formal Adoption documentation here. Ensure file name is consistent with Section V of the Stormwater Flood Management PSP.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 character.
Last Uploaded Attachments: Adopt.pdf,OWOW.pdf

Upload additional Proof of Formal Adoption documentation here, if necessary.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 character.

Upload additional Proof of Formal Adoption documentation here, if necessary.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 character.

ATTACHMENT 3: WORK PLAN

Upload the Work Plan here. Ensure file name is consistent with Section V of the Stormwater Flood Management PSP.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 character.
Last Uploaded Attachments: WorkPlan - Part 1.pdf,WorkPlan - Part 2.pdf

Upload additional work plan components here, if necessary.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 character.

Upload additional work plan components here, if necessary.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 characters.

Upload additional work plan components here, if necessary.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 character.

ATTACHMENT 4: BUDGET

Upload the Budget documents here. Ensure file name is consistent with Section V of the Stormwater Flood Management PSP.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 character.
Last Uploaded Attachments: BUDGET.pdf

Upload additional budget components here, if necessary.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 character.

Upload additional budget components here, if necessary.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 character.

Upload additional budget components here, if necessary.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 character.

ATTACHMENT 5: SCHEDULE

Upload the Schedule here. Ensure file name is consistent with Section V of the Stormwater Flood Management PSP.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 characters.
Last Uploaded Attachments: Schedule.pdf

Upload additional schedule components here, if necessary.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 characters.

Upload additional schedule components here, if necessary.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 characters.

ATTACHMENT 6: MONITORING, ASSESSMENT, AND PERFORMANCE MEASURES

Upload Monitoring, Assessment, and Performance Measures here. Ensure file name is consistent with Section V of the Stormwater Flood Management PSP.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 characters.

Last Uploaded Attachments: Measures.pdf

Upload additional Monitoring, Assessment, and Performance Measures here, if necessary.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 characters.

Upload additional Monitoring, Assessment, and Performance Measures here, if necessary.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 characters.

ATTACHMENT 7: TECHNICAL JUSTIFICATION OF PROJECTS

Upload Technical Justification of Projects here. Ensure file name is consistent with Section V of the Stormwater Flood Management PSP.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 characters.

Last Uploaded Attachments: TechJust.pdf, Storm Drian Plan-3.pdf, Storm Drian Plan-3-3 Rialto Chnl.pdf, Letter Report Rialto Channel.pdf, Alternative Analysis Rialto Channel.pdf

Upload additional Technical Justification of Projects here, if necessary.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 characters.

Last Uploaded Attachments: Rialto Chnl Floodpain Study August 2012.pdf, Rialto Chnl Floodplain Study Sept. 2012.pdf, Rialto Chnl Floodpain Study Oct. 2012.pdf

Upload additional Technical Justification of Projects here, if necessary.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 characters.

ATTACHMENT 8: BENEFITS AND COST ANALYSIS

Upload Benefits and Cost Analysis here. Ensure file name is consistent with Section V of the Stormwater Flood Management PSP.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 characters.

Last Uploaded Attachments: BenCost.pdf

Upload additional Benefits and Cost Analysis documentation here, if necessary.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 characters.

Upload additional Benefits and Cost Analysis documentation here, if necessary.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 characters.

ATTACHMENT 9: PROGRAM PREFERENCES

Upload Program Preference documentation here. Ensure file name is consistent with Section V of the Stormwater Flood Management PSP.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 characters.

Last Uploaded Attachments: Preference.pdf

Upload additional Program Preference documentation here, if necessary.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 characters.

ATTACHMENT 10: GWMP, AB 1420, AND WATER METER COMPLIANCE INFORMATION

If your proposal does not include 1) a groundwater project or a project that directly affects groundwater levels or quality, or 2) an urban water supplier who would receive grant funding, you MUST still upload a document that indicates this attachment is not applicable to your proposal. If the upload field to this attachment is left blank, your proposal cannot be saved or completed.

Upload GWMP, AB 1420, and Water Meter Compliance documents here. Ensure file name is consistent with Section V of the Stormwater Flood Management PSP.

Max file size: 50 MB per file. Up to five files can be uploaded to this upload field. Max file name: 50 characters.

Last Uploaded Attachments: GWMP.pdf