

Proposal Full View

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Applicant Information

Organization Name *

Tax ID **956002748**

Proposal Name **Amethyst Basin Stormwater Flood Reduction Project** *

Proposal Objective
 The objective of this project is to reduce the flood hazards in the project area exacerbated by an increased population. The population in this area has increased more than threefold in 20 years, from about 90,000 in 1980 to more than 300,000 in 1999 (Ron Rector, High Desert Regional Economic Development Authority, oral commun. 2000). Victorville and similar communities experienced an increase by more than 40%. The main purpose of Amethyst Basin is to provide flood control protection, by reducing peak flow and volume, thus reducing potential flood hazards to the increased development downstream of the site. The need for additional flood protection arises because of the overwhelming development that has occurred both upstream and downstream that has significantly increased the amount of impervious area thereby increasing the magnitude of flood peak flows and volumes. The main objective of the Basin is to decrease these values. The Basin outlet system will be designed to meet Q100 and Q1000 at the spillway per County of San Bernardino Flood Control District's standards. The secondary objective of this proposal is to enhance groundwater recharge which will be administered by the Mojave Water Agency. Amethyst Basin is an element of the Mojave Water Agency's Integrated Regional Water Management Plan (IRWM). Amethyst Basin is located within the Alto subarea water boundary as defined in the IRWM and as discussed previously has experienced a drastic increase in population resulting in an enormous increase in demand for water needs both residential and commercial. Amethyst Basin will help to achieve the District's goal to improve flood control protection while exercising water quality management. *

Budget

Other Contribution	<input type="text" value="\$0.00"/>
Local Contribution	<input type="text" value="\$5,254,480.00"/>
Federal Contribution	<input type="text" value="\$0.00"/>
Inkind Contribution	<input type="text" value="\$0.00"/>
Amount Requested	<input type="text" value="\$5,254,480.00"/> *
Total Project Cost	<input type="text" value="\$10,508,960.00"/> *

Geographic Information

Latitude *

Longitude *

Longitude/Latitude Clarification Location

County *

Ground Water Basin

Hydrologic Region

Watershed

Legislative Information

Assembly District *

Senate District *

US Congressional District *

Project Information

Project Name	<input type="text" value="Amethyst Basin Stormwater Flood Reduction P"/>
Implementing Organization	<input type="text" value="San Bernardino County Flood Control District"/>
Secondary Implementing Organization	
Proposed Start Date	<input type="text" value="12/30/2013"/>
Proposed End Date	<input type="text" value="11/14/2014"/>
Project Scope	The Scope of Work will include mobilization, site preparation and construction. Site preparation will include installing all BMP required, clearing and grubbing operations, and utility relocation as applicable. Construction work will include the excavation of basin, construction of inlet/outlet structures, basin embankments, emergency spillway, double reinforced concrete box, access roads, ramps and weak-end dikes to subdivide basin.
	Amethyst Basin covers approximately 30 acres and is part of a three basin project that will help to eliminate any potential increase in flood hazard due to planned development in the area. The Basin will be earthen bottom and will include inlet, outlet and transition structures, channels and/or closed conduits, transition structures, wingwalls, headwalls, cut-off walls, basin embankments, emergency spillway, access roadways along tops of the embankments and around the basins and

Project Description	<p>access ramps to the basin floor. Two weakened dikes each of 5-foot high are proposed within this basin to enhance groundwater recharge. These dikes subdivide the basin into three sub-basins. Basin embankment slopes will be constructed at 3 to 1 ratio (3H:1V) for the interior slopes and at 2 to 1 ratio (2H:1V) for the exterior slopes, with a minimum top width of 20 feet. A 20-foot wide access road is located along the top of embankment and around the basin. Three access ramps to the basin floors will be provided at each sub-basin for maintenance purposes. The access ramps shall also have a minimum width of 20 feet. The embankments will have a maximum height of approximately 32 feet. The south west embankment is connected to the upstream existing grade/natural flow path via a 113-foot wide spillway; while the north east outlet structure and emergency spillway will discharge into natural stream bed via a double 9'Wx8'H reinforced concrete box. Maximum depth of excavation is expected to be approximately 17 feet along the basin southerly end. The three sub-basins are connected to each other via 24" reinforced concrete pipes at the two weakened dikes. Fencing and locked gates will be installed to prevent unwanted intrusion into the basin.</p>
Project Objective	<p>The Project Objective is to reduce stormwater flood hazards, provide stormwater attenuation and provide a controlled release. The watershed generates 6,550 cubic feet per second of runoff the objective will be to capture and detain approximately 20% or 1,323 cubic feet per second. The secondary objective of this project is to enhance groundwater recharge which will be administered by the Mojave Water Agency. Amethyst Basin will help to accomplish the goal of both the SBCFCD and Mojave Water Agency</p>

Project Benefits Information

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Flood Protection	35.35	Flood reduction from Stormwater runoff
Secondary	Water Storage -- Groundwater-Recharge area protected	2600	Recharge Aquifer - Alto Subarea
Secondary	Other	0	Enhance Squirrel Habitat

Project Objective

Budget

Other Contribution	<input type="text" value="0"/>
Local Contribution	<input type="text" value="5254480"/>
Federal Contribution	<input type="text" value="0"/>
Inkind Contribution	<input type="text" value="0"/>
Amount Requested	<input type="text" value="5254480"/>
Total Project Cost	<input type="text" value="10508960"/>

Geographic Information

Latitude DD(+/-) MM 27

Longitude DD(+/-) MM 22

Longitude/Latitude Clarification Location

County San Bernardino Ground Water Basin Upper Mojave River Valley Hydrologic Region South Lahontan WaterShed

161 9628 Mojave

Legislative Information

Assembly District	33rd Assembly District
Senate District	21st Senate District
US Congressional District	District 25 (CA)

Section : Applicant Information Question Tab

APPLICANT INFORMATION QUESTION TAB

01. PROPOSAL DESCRIPTION

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

The Amethyst Basin project is located in the City of Victorville along the Oro Grande Wash. The Basin is located approximately 0.5 mile west of Interstate 15, approximately miles north of the California Aqueduct, and approximately 0.7 mile east of U.S. Highway 395. Amethyst Basin (formerly known as Oro Grande Basin #9) is located entirely v the Oro Grande Wash. This Basin is critical to the flood reduction and water recharge efforts of both the San Bernardino Flood Control District and the Mojave Water Agen Amethyst Basin is part of a three basin project that will help to eliminate flood hazards due to existing and planned development in the area. The population in the project a increased more than threefold in 20 years, from about 90,000 in 1980 to more than 300,000 in 1999 (Ron Rector, High Desert Regional Economic Development Authority, a commun. 2000). The secondary purpose of this project is to provide additional groundwater recharge which will be administered by the Mojave Water Agency. Amethyst B;

site is an element of the Mojave Water Agency's Integrated Regional Water Management Plan (IRWM). The project site has been identified as a "high priority" project in the Mojave Water Agencies (MWA) 2004 Integrated Regional Water Management Plan as a vital component to the MWA Oro Grande Retention Pond project which is currently under construction and will begin being utilized for groundwater recharge in the near future. The Amethyst Basin project will allow for the capture of stormwater runoff and increase the recharge capabilities of the retention ponds by up to an estimated 2,600 acre-feet per year for a net of 3,600 acre-feet. Alone, the Mojave Water Agency Retent Pond project is only capable of recharging up to 1,000 acre-feet per year. The Amethyst Basin is located within the Alto subarea water boundary as defined in the IRWM of which encompasses the project area. The Project area, as discussed previously, has experienced a drastic increase in population creating a strain on water needs both residential and commercial. As a result, the Alto subarea will need increased replenishment of the ground water via storm water and SWP recharge as discussed in the IRWM. This Project is to the Stormwater efforts Statewide. The Project will provide much needed flood protection, replenish groundwater supply and alleviate water conflicts among State and local agencies.

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 - 825 East 3rd Street, Rm 100 San Bernardino, CA 92415-0835 TEL: (909) 387-7918, FAX: (909)387-8067
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, Flood Control Planning, Chief - 825 East 3rd Street, Rm 122 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 Flood Control District - 825 East 3rd Street, San Bernardino, CA 92415-0835 Harold Zamora, P.E. - 825 East 3rd Street, Rm 122 San Bernardino, CA 92415-0835 TEL: (909) 387-8124, FAX: (909)387-8130 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: (18) Mojave POC: Kirby Brill - Mojave Water Agency kbrill@mojavewater.org TEL: (760) 946-7000

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

Lahontan RWQCB (6V) Victorville Office : 14440 Civic Drive, Ste 200 Victorville, CA 92392 ph: (760) 241-6583

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.

Yes, The IRWM Region (18) Mojave is approved in the Region Acceptance Process

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.

San Bernardino County Flood Control District is a local public agency

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 none

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

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.

Amethyst Basin is an essential facility that will enhance the the groundwater recharge capabilities for the Mojave Water Agency's Retention Pond Project. Mojave Water Agency will partner with the San Bernardino Flood Control District.

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.

N/A

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: Att1_SWF_Eligible_1of1.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: Att2_SWF_Adopt_2of2.pdf,Att2_SWF_Adopt_1of2.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: Att3_SWF_WorkPlan_1of3.pdf,Att3_SWF_WorkPlan_2of3.pdf,Att3_SWF_WorkPlan_3of3.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: Att4_SWF_Budget_1of1.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: Att5_SWF_Schedule_1of1.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: Att6_SWF_Measures_1of1.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: Att7_SWF_TechJust_1of3.pdf,Att7_SWF_TechJust_2of3.pdf,Att7_SWF_TechJust_3of3.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: Att1_SWF_Eligible_1of1.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: Att8_SWF_BenCost_1of1.pdf,Att2_SWF_Adopt_1of2.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: Att9_SWF_Preference_1of1.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: Att10_SWF_SelfCert_1of1.pdf