

### Proposal Full View

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**Applicant Information**

Organization Name Diablo Water District \*

Tax ID 946022414

Proposal Name Diablo Water District Expansion and Enhancement of Groundwater Monitoring Facilities and Data Collection \*

Proposal Objective Diablo Water District (District) seeks funding through the 2011-2012 DWR LGA Grant Program to improve characterization of hydrogeologic conditions and expand its monitoring program, both of which will directly serve groundwater management activities in East Contra Costa County. The project work will include test hole drilling, collection of geophysical and geological data, installation of permanent monitoring wells, and collection of water quality and water level data. This work will enable the District to address factors that currently, and may in the future, affect its conjunctive use program, and help preserve the safety and reliability of supply sources for small water systems within its sphere of influence. The project work is consistent with, and directly serves BMOs of the District's 2007 GWMP and District participation in an IRWMP Update, authorized under the 2010 Prop. 84 IRWMP Grant, Round 1, awarded to Contra Costa Water District. The proposed work will seek to define water quality variations in the groundwater subbasin which may limit conjunctive use. Limits include hardness, which poses consumer acceptance concerns, and salinity, which affects discharge quality at the local wastewater treatment facility. Water quality also limits groundwater use by small communities, including a DAC for which the District operates a small water system where arsenic, manganese, and iron concentrations approach or exceed state drinking water MCLs. These communities cannot adequately investigate or fund engineering and construction costs to implement treatment or other solutions without assistance. The expanded characterization and monitoring proposed in this application ultimately address deficiencies, such as water quality variations, that are currently obstacles in determining sustainable yield of local groundwater resources. The new information will be used by the District and others to quantify sustainable yield, a stated objective in the District's 2007 GWMP. \*

**Budget**

|                      |                |
|----------------------|----------------|
| Other Contribution   | \$0.00         |
| Local Contribution   | \$0.00         |
| Federal Contribution | \$0.00         |
| Inkind Contribution  | \$51,770.00    |
| Amount Requested     | \$249,548.00 * |
| Total Project Cost   | \$301,318.00 * |

**Geographic Information**

Latitude \* DD(+/-)  MM  SS

Longitude \* DD(+/-)  MM  SS

Longitude/Latitude Clarification

Location

See Figure 4-4  
Locations for  
Proposed  
Monitoring  
Facilities

County Contra Costa \*

Ground Water Basin San Joaquin Valley-Tracy

Hydrologic Region San Joaquin

Watershed 104 6544 San Joaquin Delta

**Legislative Information**

Assembly District 11th Assembly District, 15th Assembly District \*

Senate District 7th Senate District \*

US Congressional District District 10 (CA), District 11 (CA) \*

**Project Information**

Project Name Diablo Water District Expansion and Enhancement of C

|                                     |  |
|-------------------------------------|--|
| Implementing Organization           | Diablo Water District  |
| Secondary Implementing Organization |  |
| Proposed Start Date                 | 4/1/2013   |
| Proposed End Date                   | 4/1/2015   |
| Project Scope                       | Diablo Water District will design, construct, instrument, and monitor four new multi-completion monitoring wells.  |
|                                     | Diablo Water District (District) seeks funding through DWR's 2011-2012 DWR Local Groundwater Assistance grant program to 1) improve characterization of hydrogeologic conditions and 2) expand its monitoring program, both of which will directly serve groundwater management activities in East Contra Costa County. The project work will include test hole drilling, collection of geophysical and geological |

|                     |  |
|---------------------|--|
| Project Description | <p>data, installation of permanent monitoring wells, collection of water quality and water level data, and expansion of an existing database to manage the new data. Four sites selected for exploration and expanded monitoring are targeted to address specific technical issues to be accomplished through the work plan. Each monitoring facility will be constructed and equipped to meet the individual data requirements for each site in support of the overall project purpose. Site specific objectives include: 1. Replacement of a DAC's arsenic contaminated water supply; 2. Establishment of baseline conditions to assess aquifer response to future groundwater withdrawals; 3. Analysis of water quality trends and the potential for expanded conjunctive water use; 4. Identification of potential groundwater degradation before it reaches the District's production wells; 5. Investigation of groundwater/surface water interactions at Marsh Creek; The monitoring facilities constructed as part of this application will become an integral part of the District's long-term groundwater monitoring program and CASGEM monitoring network. It is also a project goal to obtain additional geologic information to update existing cross sections through the subbasin (LSCE, 1999) and for use in calculating safe yield for the portion of the Tracy subbasin that underlies the East County area. Data collected will be made available to local and regional water supply entities including member agencies of the East County Water Management Association, the DWR, and the general public.</p> |
| Project Objective   | <p>The primary objective of the proposed project is to expand the District's current groundwater monitoring network to better delineate factors that currently, and may in the future, limit groundwater use for both its conjunctive use program and for local communities (including Disadvantaged Communities) that rely on groundwater through small water systems. The proposed work will support long-term water supply planning, including expanded conjunctive management of surface and groundwater resources.</p>  |

**Project Benefits Information**

| Project Benefit Type | Benefit Type   | Measurement | Description  |
|----------------------|--|-------------|--|
| Primary              | Groundwater Management-Monitoring wells installed        | 4           | Construction, design, and instrumentation of new monitoring facility                                 |
| Secondary            | Groundwater Management-Groundwater quality samples taken | 11          | 1 round of samples in each new monitoring well and 2 existing wells                                  |
| Secondary            | Groundwater Management-Water level measurements taken    | 7           | Quarterly transducer downloads and processing for all 11 transducers.                                |
| Secondary            | Groundwater Management-Water level measurements taken    | 18          | Monthly manual water level measurements in 9 new MWs and 2 existing wells                            |
| Secondary            | Groundwater Management-Geophysical tests performed       | 4           | Run geophysical log in each new test hole  |
| Secondary            | Groundwater Management-Devices Installed                 | 11          | Install pressure transducers in new MWs and 2 existing wells for continuous water level measurements |

Project Objective

**Budget**

|                      |        |
|----------------------|--------|
| Other Contribution   | 0      |
| Local Contribution   | 0      |
| Federal Contribution | 0      |
| Inkind Contribution  | 51770  |
| Amount Requested     | 249548 |
| Total Project Cost   | 301318 |

**Geographic Information**

|                   |     |       |       |
|-------------------|-----|-------|-------|
| Latitude DD(+/-)  | 38  | MM 0  | SS 29 |
| Longitude DD(+/-) | 121 | MM 40 | SS 43 |

Longitude/Latitude Clarification  Location  See Figure 4-4 Locations for P  
 County Contra Costa Ground Water Basin San Joaquin Valley-Tracy Hydrologic Region San Joaquin WaterShed  
 104 6544 San Joaquin Delta

**Legislative Information**

|                           |   |
|---------------------------|---|
| Assembly District         | 11th Assembly District,15th Assembly District |
| Senate District           | 7th Senate District                           |
| US Congressional District | District 10 (CA),District 11 (CA)             |

**Section : Applicant Information and Question's Tab**

APPLICANT INFORMATION AND QUESTION'S TAB

**Q1. Applicant Information**

**Provide the agency name, address, city, state, and zip code of the applicant submitting the application.**

Diablo Water District 2107 Main Street Oakley, CA 94561

**Q2. Proposal Description:**

**Provide a brief abstract of the Proposal. This abstract must provide an overview of the proposal including the main issues and priorities addressed in the proposal. Within the abstract, please describe how the proposal relates to the GWMP's BMO's.**

Diablo Water District is submitting the enclosed grant application under the state DWR Local Groundwater Assistance (LGA) program for funding available in fiscal year 2011-2012. The purpose of the District's proposed project is to 1) improve characterization of hydrogeologic conditions in the East Contra Costa County region and to 2) expand a monitoring program initiated by the District and others to serve ongoing groundwater management activities. The project work will include test hole drilling, collection of geophysical and geological data, installation of permanent monitoring wells, and collection of water quality and water level data. The targeted area of this project in East Contra Costa County lacks historical groundwater investigations and other studies found throughout much of the greater San Joaquin Valley Groundwater Basin. In 2006, the Diablo Water District implemented a conjunctive use project to supplement the District's surface water supply and thereby reduce its dependence on imported surface water and improve water supply reliability through alternative supply sources. This project represented a significant investment that enhanced water resource utilization and management in an area that experienced significant growth in population and reliance on groundwater resources in the past 10 years. The proposed project work will enable the District to address factors that currently, and may in the future, affect conjunctive use for its municipal water system and to preserve the safety and reliability of sources of supply for other small water systems within its sphere of influence. The project work is consistent with, and directly serves, objectives of the District's Groundwater Management Plan adopted in 2007. It is also consistent with work underway on an Integrated Regional Water Management Plan Update authorized under the 2010 Proposition 84 Integrated Regional Water Management Planning Grant, Round 1 awarded to East Contra Costa County under which the District is an active participant. The proposed work will improve characterization of the aquifer system tapped for both large-scale municipal use and smaller community water systems where data gaps currently exist in key areas. The data gaps potentially limit conjunctive use and pose problems for some local communities that rely on groundwater from small water systems. The recognized potential limits on conjunctive use include hardness, which poses consumer acceptance concerns, and salinity, which affects discharge quality at the local wastewater treatment facility. For small communities, including a Disadvantaged Community for which the District operates a small water system, groundwater use is impacted by the presence of arsenic, manganese, and iron near or exceeding the state drinking water maximum contaminant limit. These small systems cannot adequately investigate or fund engineering and construction costs to implement treatment or other solutions without assistance. The expanded characterization and monitoring network under the proposed work plan ultimately address deficiencies that are obstacles in determining sustainable yield of local groundwater resources. The new information will be used by the District and others toward the objective of identifying sustainable yield, which is a stated objective in the District's 2007 Groundwater Management Plan. Four sites selected for exploration and expanded monitoring are targeted to address specific technical issues to be accomplished through the work plan. Each monitoring facility will be constructed and equipped to meet the individual data requirements for each site in support of the overall project purpose. Data collected will be made available to local and regional water supply entities including member agencies of the East County Water Management Association, the DWR, and the general public.

**Q3. Project Director:**

**Provide the name and details (including email) 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.**

Michael Yeraka, P.E. General Manager and Chief Engineer Diablo Water District 925-625-6159 Mikegm1@aol.com

**Q4. Project Manager:**

**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.**

Tom Elson, P.E. Principal Engineer Luhdorff and Scalmanini, Consulting Engineers 530-661-0109 telson@lscce.com

**Q5. Additional Information:**

**Based on the region's location, what is the applicable DWR region office (Northern, North Central, South Central, or Southern)? The following link can be used to view each DWR region office boundaries:**

[http://www.water.ca.gov/groundwater/groundwater\\_basics/gw\\_contacts\\_info.cfm](http://www.water.ca.gov/groundwater/groundwater_basics/gw_contacts_info.cfm)

- 1)  Northern Region
- 2)  North Central Region
- 3)  South Central Region
- 4)  Southern Region

**Q6. Additional Information:**

**Provide the Date of GWMP Adoption, if any, and list the pursuant Water Code Section or other legal Authority in which it was adopted.**

The District's GWMP was formally adopted by its Board of Directors on May 23, 2007 with the signing of Resolution 2007-4 (included in Attachment 3). The plan was adopted in accordance with California Water Code Section 10750 et. seq., which included the January 2003 AB 1938 amendment to the water code.

**Q7. Additional Information:**

**Provide a list of documents that support and indicate collaboration with other local public agencies with regard to the management of the affected groundwater basin (e.g., MOUs, MOAs, JPAs, adoption of a GWMP, recognition of county ordinances in permitting processes, or party to a groundwater basin adjudication order).**

RMC. 2006. East Contra Costa County Functionally Equivalent Integrated Regional Water Management Plan. Walnut Creek, CA. Luhdorff and Scalmanini, Consulting Engineers. 2007. Diablo Water District Groundwater Management Plan for AB3030. Woodland, CA. RMC. 2010. East Contra Costa County Region Proposition 84 Round 1 Planning Grant Application. Walnut Creek, CA. Luhdorff and Scalmanini, Consulting Engineers. 2011. Groundwater Monitoring Report: Diablo Water District. Woodland, CA. Luhdorff and Scalmanini, Consulting Engineers. 2012. Diablo Water District, City of Brentwood, Town of Discovery Bay, and East Contra Costa Irrigation District California Statewide Groundwater Elevation Monitoring (CASGEM) Network Plan. Woodland, CA.

**Q8. Additional Information**

Name the entity(ies) providing the fund(s) reported in the above Budget section under the category "Other Contribution". If there are no "Other Contributions" Please answer this question with, "No Other Contributions".

No Other Contributions

**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 email address. Those listed must submit self certification of compliance with CWC §525 et seq. and AB1420, see Attachment 10. If there are none, so indicate.

Diablo Water District (925) 625-3798 Mikegm1@aol.com All required Self-Certification documents are included in Attachment 10.

**Q10. Eligibility:**

Have all of the urban water suppliers, listed in Q9 above, submitted complete 2010 UWMP to DWR? If not, explain why. Have those plans been verified as complete by DWR? If not, explain current status.

The District has prepared a 2010 UWMP which was formally adopted by the District's Board of Directors on June 22, 2011 (Resolution 2011-6, Appendix 10-2) and is currently in review with the DWR. The District's 2010 UWMP has not been verified as complete, though it is expected that it will be soon. The DWR contact for review and approval of the District's 2010 UWMP is Romain Maendly, 916-651-7027. A copy of the 2010 UWMP is available on the District's website at <http://diablowater.org/documents/>.

**Q11. Completeness Check:**

Have all of the fields in the application been completed?

Yes

**Q.11. Completeness Check (cont)**

If no, please explain. If yes, answer this question with "NA".

NA

**Section : Application Attachments Tab**

APPLICATION ATTACHMENTS TAB

**Attachment 1. Authorizing Documentation**

Upload authorizing documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att1\_LGA12\_DWD\_AuthDoc\_1of1.pdf

**Attachment 2. Eligible Applicant Documentation**

Upload eligible documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att2\_LGA12\_DWD\_EligDoc\_1of1.pdf

**Attachment 3. Status of GWMP**

Upload the GWMP documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att3\_LGA12\_DWD\_GWMP\_1of5.pdf,Att3\_LGA12\_DWD\_GWMP\_2of5.pdf,Att3\_LGA12\_DWD\_GWMP\_3of5.pdf,Att3\_LGA12\_DWD\_GWMP\_4of5.pdf,Att3\_LGA12\_

**Attachment 4. Project Description**

Upload project description here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att4\_LGA12\_DWD\_ProjD\_1of5.pdf,Att4\_LGA12\_DWD\_ProjD\_2of5.pdf,Att4\_LGA12\_DWD\_ProjD\_3of5.pdf,Att4\_LGA12\_DWD\_ProjD\_4of5.pdf,Att4\_LGA12\_DWD\_

**Attachment 5. Work Plan**

Upload work plan here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att5\_LGA12\_DWD\_WrkPln\_1of2.pdf,Att5\_LGA12\_DWD\_WrkPln\_2of2.pdf

**Attachment 6. Budget**

Upload budget here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att6\_LGA12\_DWD\_BUDGET\_1of5.pdf,Att6\_LGA12\_DWD\_BUDGET\_2of5.pdf,Att6\_LGA12\_DWD\_BUDGET\_3of5.pdf,Att6\_LGA12\_DWD\_BUDGET\_4of5.pdf,Att6\_

**Attachment 7. Schedule**

Upload schedule here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att7\_LGA12\_DWD\_SCHED\_1of1.pdf

**Attachment 8. Quality Assurance**

Upload quality assurance documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att8\_LGA12\_DWD\_QA\_1of5.pdf,Att8\_LGA12\_DWD\_QA\_2of5.pdf,Att8\_LGA12\_DWD\_QA\_3of5.pdf,Att8\_LGA12\_DWD\_QA\_4of5.pdf,A

**Attachemnt 9. Past Performance**

Upload past performance documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".

Last Uploaded Attachments: Att9\_LGA12\_DWD\_PERFORM\_1of2.pdf,Att9\_LGA12\_DWD\_PERFORM\_2of2.pdf

**Attachment 10. AB1420 and Water Meter Implementation Compliance**

Upload 1420 and water meter implementation documentation here, if applicable. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Subm

Last Uploaded Attachments: Att10\_LGA12\_DWD\_1420\_1of4.pdf,Att10\_LGA12\_DWD\_1420\_2of4.pdf,Att10\_LGA12\_DWD\_1420\_3of4.pdf,Att10\_LGA12\_DWD\_1420\_4