

Proposal Full View

Print

Applicant Information

Organization Name *

Tax ID **911641772**

Proposal Name Prop for Evaluation of Artificial Recharge Potential and Auto Monitoring of GW Levels in CASGEM Wells *

Proposal Objective Evaluate Recharge Potential of El Nido Basin in Southwest Merced Groundwater Basin and Long-Term High Frequency Monitoring of California Statewide Groundwater Elevation Monitoring Wells *

Budget

Other Contribution	<input type="text" value="\$0.00"/>
Local Contribution	<input type="text" value="\$0.00"/>
Federal Contribution	<input type="text" value="\$0.00"/>
Inkind Contribution	<input type="text" value="\$65,000.00"/>
Amount Requested	<input type="text" value="\$250,000.00"/> *
Total Project Cost	<input type="text" value="\$315,000.00"/> *

Geographic Information

Latitude * DD(+/-) MM SS

Longitude * DD(+/-) MM SS

Longitude/Latitude Clarification 37.126767/-120.451040

Location Merced Groundwater Basin

County Merced *

Ground Water Basin San Joaquin Valley-Merced

Hydrologic Region San Joaquin

Watershed Upper Merced Rover, Lower Merced River, Mariposa

Legislative Information

Assembly District 26th Assembly District *

Senate District 12th Senate District *

US Congressional District

District 18 (CA) *

Project Information

Project Name

Implementing Organization	Merced Area Groundwater Pool Interests (MAGPI)
Secondary Implementing Organization	
Proposed Start Date	5/1/2013
Proposed End Date	9/30/2014
Project Scope	Evaluate Recharge Potential of El Nido Basin in SW Merced GW Basin and Long Term High Frequency Monitoring of CASGEM Wells.
Project Description	To evaluate: (1) the potential for artificial recharge in the vicinity of El Nido (in southwest Merced Basin), and (2) to install continuously-recording dataloggers to automate the monitoring groundwater elevations in 34 selected CASGEM observation and production wells at strategic locations within the Merced Basin.
Project Objective	The purpose and goals of this Project is to increase the ability to recharge surface water (when available), further develop an understanding of the hydrogeology of the MGWB, and to apply that understanding to evaluate impacts of increased groundwater use in on sub-basin groundwater levels and quality.

Project Benefits Information

Project Benefit Type	Benefit Type	Measurement	Description
	Groundwater		Increase the ability to recharge surface water (when available), further develop an understanding of the hydrogeology

Primary	Management-Other	0	of the MGWB, and to apply that understanding to evaluate impacts of increased groundwater use in on sub-basin groundwater levels and quality
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Project Objective

Budget

Other Contribution	<input type="text" value="0"/>
Local Contribution	<input type="text" value="0"/>
Federal Contribution	<input type="text" value="0"/>
Inkind Contribution	<input type="text" value="65000"/>
Amount Requested	<input type="text" value="250000"/>
Total Project Cost	<input type="text" value="315000"/>

Geographic Information

Latitude DD(+/-)	<input type="text" value="37"/>	MM <input type="text" value="7"/>	SS <input type="text" value="36"/>
Longitude DD(+/-)	<input type="text" value="-120"/>	MM <input type="text" value="27"/>	SS <input type="text" value="3"/>
Longitude/Latitude Clarification	<input type="text" value="37.126767/-12"/>	Location	<input type="text" value="Merced Groun"/>

County Merced Ground Water Basin San Joaquin Valley-Merced Hydrologic Region San Joaquin WaterShed

Legislative Information

Assembly District	26th Assembly District
Senate District	12th Senate District
US Congressional District	District 18 (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.

Merced Area Groundwater Pool Interests (MAGPI) 744 West 20th Street, Post Office Box 2288,
Merced, California, 95344

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.**

The purpose and goals of this Project is to increase the ability to recharge surface water (when available), further develop an understanding of the hydrogeology of the MGWB, and to apply that understanding to evaluate impacts of increased groundwater use in on sub-basin groundwater levels and quality. The Project will accomplish the following objectives: ? Development of a comprehensive, updated hydrogeologic conceptual model that provides an overall understanding of how the aquifer system works and interacts with surface water. ? Evaluation of changing land use and groundwater conditions that supports a better understanding of land use impacts on surface and groundwater resources. ? Support for ongoing groundwater programs such as the CASGEM program. ? Develop a base line of groundwater elevation data for development of a regional scale conjunctive use numerical model as a tool to assist with land use planning and surface water and groundwater management decisions throughout the sub-basin. ? Support for programs associated with the Merced Groundwater Basin Groundwater Management Plan (GWMP) including recent regulatory requirements of a GWMP such as the mapping of recharge zones as required by Assembly Bill 359 (AB359, 2011). ? Support for the on-going development of the Merced Integrated Regional Water Management Plan as it relates to groundwater recharge and other pertinent water issues. Analysis of available data will focus on the interconnectivity of aquifer systems, recharge potential, surface water/groundwater interactions, and overall groundwater conditions. The groundwater level data will be compiled into a database to examine changes and trends in groundwater levels over time. Groundwater level contour maps and cross sections will be developed to analyze and illustrate relationships of aquifers and groundwater conditions.

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.**

Hicham ElTal, Assistant General Manager, Water Resources, Merced Irrigation District Telephone:
209-722-5761 Fax: 209-726-4176 Email: heltal@mercedid.org

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.**

Hicham ElTal, Assistant General Manager, Water Resources, Merced Irrigation District Telephone:
209-722-5761 Fax: 209-726-4176 Email: heltal@mercedid.org

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

- 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.

MAGPI is a public entity formed in 1997 by a Memorandum of Understanding (MOU) under the powers of AB 3030. Division 11 ? Irrigation Districts ? California Water Code, MID has legal authority to enter into a grant agreement under the statutory authority contained in CWC Sections 22075, 22078, 22225, and 22230. A groundwater management plan was adopted by MAGPI in December 1996. An update of the groundwater management plan to address the legislative requirements of SB 1938 and SB 1672 was adopted by MAGPI in July 2008 (2008-3). A resolution approving this Grant Proposal will be adopted by Merced Area Groundwater Pool Interests (MAGPI) at their July 17, 2012, board meeting (2012-28).

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).

MAGPI, through its agent MID, has successfully complete two previous investigations under AB303 grants. During 2000-2001, MAGPI was awarded an AB303 Grant of approximately \$495,000 to conduct an investigation of the southeast quadrant of the District (Geomatrix, 2001). This investigation evaluated the potential to install additional water supply wells in the southeast quadrant and examine the potential to recharge surface water, if possible. The investigation included the installation of eight exploration borings and two tests wells. The investigation results indicated that the southeast quadrant did not have significant untapped resources. During 2003-2005, MAGPI was awarded an AB303 Grant of approximately \$250,000 to conduct an evaluation of the surface water/groundwater interactions and recharge potential along Bear Creek (Geomatrix, 2005). This investigation included the installation of six pairs of shallow and deep monitoring well clusters adjacent to Bear Creek east of Merced to near the foothills. These wells were instrumented with dataloggers to record changes in groundwater levels in response to changes in stream stage. The results of this investigation indicated that during flood stages, Bear Creek was a losing stream, and during low stage, Bear Creek had both losing and gaining reaches. Monitoring of Bear Creek is ongoing and the collected data may indicate areas where off-channel recharge may be possible. During 2004-2010, MID funded a pilot recharge test at the Cressey Basin facility. This project started with seed money from DWR in the amount of about of \$30,000. It consisted of constructing and operating three small pilot test basins and monitoring changes in groundwater levels and quality over time in response to recharge. The results of this investigation indicate that up to 20,000 acre-feet of water could be recharged per year if the facility were completely built-out. The built-up facility was completed in 2010 with construction costs in excess of \$500,000 for

both projects. These projects are examples of how MAGPI, and its agent MID, are investigating the Merced Basin and furthering the understanding of surface water/groundwater interactions within the Merced Basin.

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.

Not Applicable

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.

Not Applicable

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_MAGPI_AuthDoc_1of2.pdf,Att1_LGA12_MAGPI_AuthDoc_2of2.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_MAGPI_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_MAGPI_GWMP_1of1.pdf

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_MAGPI_ProjD_1of1.pdf

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_MAGPI_WrkPln_1of1.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_MAGPI_BUDGET_1of1.pdf

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_MAGPI_SCHED_1of2.pdf,Att7_LGA12_MAGPI_SCHED_2of2.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_MAGPI_QA_1of1.pdf

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_MAGPI_PERFORM_1of1.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 Submit An Application".

Last Uploaded Attachments: Att10_LGA12_MAGPI_1420_1of1.pdf
