

Proposal Full View

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Applicant Information

Organization Name *

Tax ID **946016406**

Proposal Name Assessing Groundwater Quality Impacts for the McMullin On-Farm Flood Capture and Recharge Project in the Kings Basin *

Proposal Objective Assess nitrate and salt fluxes to groundwater for the McMullin On-Farm Flood Capture and Recharge Project, develop predictive models for groundwater flow, and recommend steps to manage groundwater levels and quality in the lower Kings Subbasin. *

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="\$0.00"/>
Amount Requested	<input type="text" value="\$250,000.00"/> *
Total Project Cost	<input type="text" value="\$250,000.00"/> *

Geographic Information

Latitude * DD(+/-) MM SS

Longitude * DD(+/-) MM SS

Longitude/Latitude Clarification Coordinates represents approximate centroid of project area. Location West of CA-145 near Helm, CA

County Fresno *

Ground Water Basin San Joaquin Valley-Kings

Hydrologic Region Tulare Lake

Watershed South Valley Floor

Legislative Information

Assembly District 30th Assembly District *

Senate District 16th Senate District *

US Congressional District District 20 (CA) *

Project Information

Project Name

Implementing Organization	Kings River Conservation District
Secondary Implementing Organization	University of California, Davis
Proposed Start Date	7/15/2013
Proposed End Date	7/15/2015
Project Scope	Construct 3 monitoring wells, study salt flux in vadose zone, monitor groundwater movement trends in region.
Project Description	Construction of 3 monitoring wells (300-350 ft. depth) for the purpose of monitoring vertical and horizontal groundwater movements. Use geologic data obtained to help construct a HYDRUS-1D model to predict salt and nitrate fluxes within the vadose zone. Additional benefits include potential subsidence monitoring, groundwater quality trends, recharge activity evaluation.
Project Objective	To characterize the vertical movement of inputs from the soil surface (agricultural or recharge), track long term trends in horizontal or vertical groundwater movements, and evaluate the impacts of flood flows from the Kings River.

Project Benefits Information

Project			
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Benefit Type	Benefit Type	Measurement	Description
Primary	Water Storage -- Groundwater-Other	0	The primary benefit type for this project is macro and micro level groundwater movement and quality
Secondary	Groundwater Management-Monitoring wells installed	0	Geologic/potential subsidence data will be acquired; long term horizontal and vertical groundwater movements measured/tracked
Secondary	Water Use Efficiency - Best Mgt. Practices-Other	0	Potential improvements to irrigation efficiency

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="0"/>
Amount Requested	<input type="text" value="250000"/>
Total Project Cost	<input type="text" value="250000"/>

Geographic Information

Latitude DD(+/-) MM SS

Longitude DD(+/-) MM SS

Longitude/Latitude Clarification Location

County Fresno Ground Water Basin San Joaquin Valley-Kings Hydrologic Region Tulare Lake WaterShed South Valley Floor

Legislative Information

Assembly District	30th Assembly District
Senate District	16th Senate District
US Congressional District	District 20 (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.
 Kings River Conservation District 4886 East Jensen Avenue Fresno, CA 93725

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.

This project integrates several existing programs (Flood Flow Capture project, NRCS Conservation Innovation Grant (CIG), KRCD's Remote Monitoring Telemetry project, CASGEM, Lower Kings Basin Groundwater Management Plan, and the upcoming General Order for Waste Discharge requirements) into a concentrated study above a known groundwater depression within the Kings River Basin near Helm, CA. Hydrologic conditions have made pumped groundwater the primary source of irrigation water in this region. Studies to be performed include nitrate and salt flux within the vadose zone and how they change with agronomic practices and the potential changes in these fluxes by groundwater recharge through the potential use of flood flows on the Kings River. Additional data to be developed includes a detailed geologic investigation during the installation of dedicated groundwater monitoring wells. Collected data will be input into a known groundwater model (HYDRUS-1D), and subsequently validated. This data can be used to evaluate irrigation practices by adjusting said practices to limit irrigation water movement (beyond leaching requirements) below the root zone, thus reducing the need for pumped groundwater. These wells will not only provide information that will be added to the CASGEM database, the placement of the wells will allow the KRCD to evaluate the impacts of flood flows from the Kings River (through the James Bypass/Fresno Slough) upon groundwater levels (response times, duration of benefits) as well as further evaluate the movement of groundwater within the region. The project wells will also provide for further evaluation of any subsidence activity as the GPS survey of the wells will include RTK determined elevation data, which will be surveyed on a 2-3 year cycle. Water levels within the monitoring wells will be reported using data loggers that provide telemetry for internet access. Groundwater quality will be measured for both the landowner's benefit as well as potential compliance with the Regional Water Quality Control Board's General Order for Waste Discharge.

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.

David Orth, General Manager Kings River Conservation District 559-237-5567 x108 dorth@krcd.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.

Eric Osterling, Senior Resource Analyst Kings River Conservation District 559-237-5567 x135 eosterling@krcd.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.

The Kings River Conservation District prepared, and on June 14, 2005 adopted, an updated Groundwater Management Plan (GWMP) compliant with the requirements of California Water Code (CWC) Section 10753.7 and which includes the DWR recommended components listed in DWR Bulletin 118. The KRCD Board resolution adopting the plan is included with Attachment 3.

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).

The Kings Subbasin region is a case study in collaborative and cooperative approaches to the management of groundwater, as well as with other water resources. In addition to the adopted Lower Kings Basin GWMP submitted with Attachment 3, KRCD is heavily involved in the local IRWM effort, acting as Administrative and Fiscal Agent for the Kings Basin IRWM Authority. The McMullin On-Farm project was vetted through the project review process, and is currently listed on the IRWMP Project List. Project review team members include regional irrigation districts, county and city representatives, and the environmental justice community. One relatively new activity under the IRWM effort is the Kings Basin Coordinated GWMP Implementation Plan, which seeks to stitch together and jointly implement all of the GWMP's covering the Kings Subbasin. Representatives from the Fresno Regional Plan, the Consolidated ID Plan and the Alta ID Plan are fully aware of this project, and are supportive as it meets many common objectives of the respective GWMPs.

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.

The Kings River Conservation District will be the contracting agency with the State. The District is not an Urban Water Supplier as defined by the California Water Code, as the District is not responsible for water delivery or direct sale of water for delivery.

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 Kings River Conservation District will be the contracting agency with the State. The District is not an Urban Water Supplier as defined by the California Water Code, as the District is not responsible for water delivery or direct sale of water for delivery.

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".

N/A

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_KRCD_AuthDoc_1of2.pdf,Att1_LGA12_KRCD_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_KRCD_EligDoc_1of2.pdf,Att2_LGA12_KRCD_EligDoc_2of2.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_KRCD_GWMP_1of4.pdf,Att3_LGA12_KRCD_GWMP_2of4.pdf,Att3_LGA12_KRCD_GWMP_3of4.pdf,Att3_LGA12_KRCD_GWMP_4of4.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_KRCD_Description_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_KRCD_WorkPlan_1of2.pdf,Att5_LGA12_KRCD_WorkPlanWellSpecs_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_KRCD_Budget_1of3.pdf,Att6_LGA12_KRCD_BudgetLCP_2of3.pdf,Att6_LGA12_KRCD_BudgetGlobalWater_3of3.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_KRCD_Schedule_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_KRCD_QualityAssurance_1of2.pdf,Att8_LGA12_KRCD_QualityAssurance_2of2.pdf

Attachment 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_KRCD_PastPerformance_1of3.pdf,Att9_LGA12_KRCD_PastPerformance_2of3.pdf,Att9_LGA12_KRCD_PastPerformance_3of3.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_KRCD_AB1420&MeterCompliance_1of1.pdf