

FOX CANYON GROUNDWATER MANAGEMENT AGENCY

800 S. Victoria Avenue | Ventura, CA 93009-1610 | Tel: (805) 654-2014 | FCGMA-GSP@ventura.org



Project Evaluation Checklist

BACKGROUND INFORMATION	
Project Name:	Installation of Transducers in Groundwater Monitoring Wells
Purpose of Project:	Data Gaps
Project Type:	Project Update
Sponsoring Agency:	Fox Canyon Groundwater Management Agency
Groundwater Basin:	Las Posas Valley Basin
Location:	Key wells in the Las Posas Valley Basin
Project Description:	The project proposes installing transducers in key wells to address data gaps that impact uncertainty in water management identified in the GSP.
Implementation Trigger (if applicable):	N/A
Evaluation Criteria	Response (Applicant to Complete)
Water Supply	
Annual increase in Sustainable Yield (AFY):	N/A
Annual increase in supplemental water in lieu of pumping (AFY):	N/A
Groundwater demand reduction (AFY):	N/A
Sustainability indicators addressed:	Groundwater Levels, Groundwater in Storage, Groundwater Quality, Subsidence
Project documentation included?	Yes
Timing/Feasibility	
Project Implementation Timeframe	
Current Project status:	Conceptual - no feasibility or design
Estimated time to Project completion (years):	2 years, depending on funding
Timeline / feasibility documentation included?	No
Environmental	
CEQA/NEPA type:	Not Applicable
Status of CEQA/NEPA review and permitting:	Not applicable
Will the Project likely be permitted?	Yes
Sensitivity of location:	Low - located on existing agricultural or developed land.
Permitting	
Permits required:	None
Status / time required:	Not Applicable
Likelihood of Project being permitted:	High

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Project Complexity	
Does the Project use new technology:	No
Does the Project require land acquisition:	No
Status of the land acquisition process:	Not required or all acquisitions and/or easements complete
Is the Project dependent on other unbuilt or unfunded projects:	No
Is the Project dependent on funded projects currently under construction:	No
Description of Operation and Maintenance (if applicable):	Cables and connections will need to be checked at every download. Transducers will require periodic replacement.
Project Lifespan	
What is the projected lifespan of the Project:	30 years, or until better technology is available.
Project Phasing	
<i>Please provide documentation of anticipated project phasing, including schedules and costs (capital and O&M) for each phase, as an attachment to this form.</i>	
Does Project require multiple phases of construction?	No
No. of anticipated construction phases:	Not Applicable
Description of phases:	Not Applicable
Phasing timeline:	Not Applicable
Total cost per phase:	Not Applicable
Project phasing documentation attached?	No
Cost and Funding	
Total capital cost:	\$235,000 (for 11 transducers)
Total annual Operations & Maintenance (O&M) Cost:	\$8,600 (for 11 transducers)
Is the project Proponent providing a funding match to construct the project?	To Be Determined
Is there a funding source other than FCGMA for ongoing operation and maintenance costs?	Not Applicable
Additional Benefits	
Does the project benefit disadvantaged or under-represented communities:	No
If yes, please describe the benefit(s):	
Project Proponent Contact Information	Response (Applicant to Complete)
Name:	Kim Loeb
Title:	Groundwater Manager
Organization:	Fox Canyon Groundwater Management Agency
Email:	kim.loeb@ventura.org

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Project Evaluation Checklist

Phone:	805-650-4083
Date:	9/29/2023

Installation of Transducers in Groundwater Monitoring Wells in the Las Posas Valley Basin

Description

This project proposes installation of transducers in representative monitoring points, or key wells, in the Las Posas Valley Basin (LPVB). The GSP determined that there were temporal data gaps in the understanding of aquifer conditions. These data gaps limit the number of wells that can be used to contour spring high and fall low groundwater conditions. These temporal data gaps also impact estimates of the change in groundwater in storage in the LPVB. The temporal data gaps have persisted in each annual report. Additionally, as most key wells are agricultural irrigation wells, transducers will help assure that measured groundwater levels are static water levels unaffected by recovery or potential well interference. The addition of transducers will help ensure that spring high and fall low groundwater levels are collected from representative monitoring points within a 2-week window, as recommended by DWR, and will provide a clearer understanding of groundwater conditions during the spring and fall measurement events. This will allow better comparison for annual change in storage estimates and will facilitate sustainable management of the LPVB.

Relationship to Sustainability Criteria

Relationship to Minimum Thresholds

This project does not have a direct influence on the minimum thresholds. It will, however, provide data that can be used to improve basin management as well as evaluate and potentially revise the minimum thresholds in the future.

Relationship to Measurable Objectives

This project does not have a direct influence on the measurable objectives. It will, however, provide data that can be used to improve basin management as well as evaluate and potentially revise the measurable objectives in the future.

Expected Benefits

The expected benefits of this project lie in the collection of data from a 2-week window each spring and fall and the ongoing monitoring of the groundwater conditions at the well sites including a better understanding of potential well interference and non-static conditions on the water level measurements. This data can be used to inform management decisions depending on the observed groundwater conditions.

Timetable for Implementation

It is anticipated that installation of transducers can be completed within a 2-year timeframe following commitment of funds for the project.

Economic Factors and Funding Sources

The capital cost is anticipated to be approximately \$235,000 for eleven well locations. Annual O&M costs are anticipated to be \$8,600. Potential funding sources include DWR Technical Support Services or Sustainable Groundwater Management grant funds, as well as funding from FCGMA.