



## California Department of Fish & Wildlife

# Upland Game Bird Account Project Proposal

FY 2013/2014

Project Title: Camp Cady Wildlife Area Upland Game Bird Solar Well

This project proposal must clearly identify benefits to upland game birds, upland game bird hunting opportunities, or public hunting outreach (Fish and Game Code Section 3684c).

CDFW or Non-Governmental Organization project contact:

Name: Bruce Kenyon, Quail Forever

Phone #: (805) 526-2073

Email: cccerastes@att.net

Project start and completion dates by State Fiscal Year (July 1 – June 30): 07/01/2013 to 06/30/2014

California Department of Fish and Wildlife Region and location of proposed project: Inland Deserts Region

**Objectives:** State how this proposed project will maintain or enhance existing upland game bird resources.

Provide nesting, roosting, and foraging habitat for upland game species through the establishment of a small game drinker and drip irrigation of riparian habitat using a solar well. This project consists of installing a solar well to access artesian water within 9-10 feet of surface elevation at Camp Cady Wildlife Area. The solar well will be used to establish a small game guzzler and to establish riparian and upland habitats using drip irrigation which will provide nesting, roosting, and foraging habitat as much as a mile away from the well site.

**Benefits:** Describe benefits to upland game bird species, upland game bird public hunting opportunities, or public outreach and education relating to upland game bird hunting. The establishment of this solar well project will allow for the development of a permanent water source for upland game species, as well as provide for additional habitat, forage, water, and more hunting opportunities as much as a mile away from the well site. In addition, the well may be used to help establish a nursery for the development of cottonwoods and willows to revegetate the Mojave River. Establishment of new riparian vegetation will allow for the formation of additional understory which will provide for new habitat, forage, and hunting opportunities.

**Schedule of project tasks:** A brief project summary is required annually for multi year projects and a final project report by August 1<sup>st</sup> following the fiscal year of project completion. Please summarize your projected tasks by date:

Tasks	Start Date	Finish Date
Purchase solar well and associated materials	07/01/2013	11/30/2013
Install solar well	12/01/2013	03/01/2014
Establish guzzler and begin revegetation project	03/01/2014	06/30/2014

The following pages include tables that you may use to fill in your budget breakdown. Please feel free to generate your own tables, but all information must be included. Additional information such as area maps should also be included.

Project Funding Breakdown	
Item of Expense (salary & wages, equipment, supplies, etc.)	Amount
Solar well pump and associated materials	\$5,000.00
Total	\$5,000.00

State the measurable products expected to result from this project and how the effectiveness will be evaluated.

Measurable products expected to result from this project include the establishment of one small game guzzler supplied with shallow groundwater from an off-grid solar well pump. If the solar well pump system is successful, we will be able to deliver water for use in the small game guzzler and potentially store water for use in riparian revegetation efforts. Effectiveness of the system will be evaluated by measuring system performance (i.e. pumped ground water volume and rates over time).

List any CDFW personnel participation by name and classification:

Name: Troy Kelly

Classification: Senior Environmental Scientist

Non-Governmental Organization and other Agency Contributions	
Organization/Agency Name	% of Matching Funds and/or Volunteer Effort
Quail Forever volunteer hours 50 hrs @ \$10.00/hr	\$500.00
1,800 miles per year @\$0.50/mile	\$900.00
Total	\$1,400.00

Total Project Funding	
Item of Expense (salary & wages, equipment, supplies, etc)	Amount
Total Requested Funding	\$5,000.00
Total Matching Funds	\$1,400.00
Total Project Costs (Annual)	\$6,400.00