

**STATE OF CALIFORNIA  
SIERRA NEVADA CONSERVANCY**

**Sierra Nevada Conservancy Grant Program  
Safe Drinking Water, Water Quality and Supply, Flood Control,  
River and Coastal Protection Act of 2006 (Proposition 84)**

**Applicant:** MOJAVE DESERT-MOUNTAIN RESOURCE  
CONSERVATION AND DEVELOPMENT COUNCIL

**Project Title:** LONE PINE WATER RECLAMATION FEASIBILITY  
STUDY

**Subregion:** EAST SIERRA

**County:** INYO

**SNC Funding:** \$121,440.00

**Total Project Cost:** \$125,040.00

**Application Number:** 448

**Final Score:** 91.8

**PROJECT SCOPE**

This project will complete the pre-implementation activities for reusing wastewater from the Lone Pine Community Services District at the high school and in the community of Lone Pine in Inyo County. It will consist of three phases, the first to study the feasibility of:

- Using wastewater for irrigating pastureland on the school farm to raise livestock
- Reducing landscape irrigation with potable water at the park, hospital, and other community sites
- Expanding the community garden program

The second phase is to prepare the engineering and design documents and the final phase is to complete the required permitting and environmental compliance to implement the project. When implemented, the project will improve and protect local water resources, provide local foods, and offer students diverse learning opportunities. UC Cooperative Extension will provide technical assistance including soil analysis and horticulture methodology review and the U.S. Agriculture, Natural Resources Conservation Services will ensure the application of best practices related to grazing. The Lone Pine Economic Development Corporation will assist in community outreach

and awareness activities while Lone Pine High School will provide support and resources for the implementation phase.

### PROJECT SCHEDULE

<b>DETAILED PROJECT DELIVERABLES</b>	<b>TIMELINE</b>
Develop RFP for Feasibility Study	July 2011
Submit 6 month progress report	November 2011
Complete Feasibility Study	December 2011
Submit 12 month progress report	May 2012
Complete Engineering & Design Reports	July 2012
Submit 18 month progress report	November 2012
Submit 24 month progress report	May 2013
Complete CEQA and Permits	July 2013
Complete Final Report	September 2013
<b>FINAL PAYMENT/FINAL PAYMENT REQUEST</b>	<b>October 30, 2013</b>

### PROJECT COSTS

<b>PROJECT BUDGET CATEGORIES</b>	<b>TOTAL SNC FUNDING</b>
Feasibility Study – Contract Labor	\$30,000.00
Engineering Report – Contract Labor	30,000.00
Permitting and CEQA – Contract Labor	30,000.00
Supplies- Testing	13,000.00
Mileage	100.00
Meeting expenses	500.00
Outreach materials	2,000.00
Administration	15,840.00
<b>GRAND TOTAL</b>	<b>\$121,440.00</b>

### PROJECT SUPPORT LETTERS

- Lone Pine Economic Development Corporation
- Lone Pine Unified School District
- Lone Pine High School

### PROJECT PERFORMANCE MEASURES

There are four Performance Measures common to all grants. In addition, grantees are required to include between one and three project-specific measures. Performance Measures listed here represent those proposed by applicants and may be modified through further discussion with SNC staff.

- Percent of Pre-Project and Planning Efforts Resulting in Project Implementation

## PROJECT SUMMARY

**County:** Inyo

**Applicant:** Desert Mountain Resource Conservation and Development Council

**Project Title:** Lone Pine Water Reclamation Feasibility Study

### PROJECT GOAL

Desert Mountain RC&D Council is partnering with Lone Pine Economic Development Council, Lone Pine High School and Lone Pine Community Services District to complete a feasibility study/environmental review on reusing wastewater for the Lone Pine Community, particularly at the high school in conjunction with their Future Farmers of America Program. This project is consistent with Proposition 84 requirements to protect and restore water sources and their associated lands by reusing the limited water in the Sierras for beneficial use. This project is also consistent with Sierra Nevada Conservancy Goals to protect/restore the Region's physical resources, improve water quality, and assist the regional economy through SNC funds. This study will explore what additional treatment is necessary for reusing the water which will protect the resource as well as improve the quality. The study will explore piping the water for use by the local high school for raising livestock for the local community to eat, establishing a community garden and reducing potable water use for irrigation as well.

### PROJECT SCOPE

This project is for the planning phase of reusing wastewater from the Lone Pine Community Services District at the Lone Pine High School and within the community. This project has three phases. The first phase is a study to look at the feasibility of using the wastewater for irrigating pasture, reducing lawn irrigation with potable water, and expanding a community garden. The second phase, if the project is considered feasible, is to complete the necessary engineering documents. The last phase is to complete the required permitting and environmental review to complete the project.

The feasibility study will review the existing wastewater system and compare it to the state and local regulations for water reclamation. It will review the existing and potential uses of reclaimed water and determine what upgrades would be needed, both of the wastewater facility as well as the necessary piping. The potential uses for water include using the wastewater for pastureland on which the high school students will raise livestock as food for the local community. The water may also be used on the high school grounds to expand the existing garden to create a local community garden for use by the community and students for a local food source. Other potential uses of the reclaimed water include irrigation for landscape such as at the park, churches, apartments and hospital. The study will include the basic engineering needed to determine whether or not the project is feasible. The majority of the work if the project is feasible will be completed by the high school students as part of their class work which will give the students hands on experience. The study will look at using a solar pump, to be done by the students as experience to increase interest in working in the renewable field. If the project is feasible and moves forward, the students will install the irrigation line to the existing school property. The study will also outline the next steps for completing the project including environmental review and permitting required.

Once the study is complete, based on the results, the remainder of the funding will be used to

complete the engineering design and environmental review. The engineering design will encompass the upgrades for the wastewater treatment plant as well as the piping needed to deliver the water.

This project will improve and protect the local water resource, provide local food sources, provide opportunities for students to learn skills for the future, and improve the local economy. This project is supported by many local partners as you can see by the letters of support. The UC-Cooperative Extension will provide technical assistance with the gardening aspects as well as soil analysis. U.S. Department of Agriculture, Natural Resources Conservation Service will provide technical assistance to ensure the grazing aspects are thoroughly considered. Lone Pine Economic Development Corporation will assist in outreach to ensure support and understanding by the local community. Lone Pine High School will provide support and information on water uses and potential in-kind donations for the implementation of the project. Lone Pine Community Services District will be the ultimate provider of the water.

### LETTERS OF SUPPORT

Lone Pine Community Services District  
Lone Pine High School

Lone Pine Economic Dev. Corporation

### SNC PROJECT DELIVERABLES AND SCHEDULE

DETAILED PROJECT DELIVERABLES	TIMELINE
Develop RFP for Feasibility Study	July 2011
Feasibility Study	December 2011
Progress Report to SNC	December 2011
Engineering Report	July 2012
Progress Report to SNC	June 2012
Progress Report to SNC	December 2012
Progress Report to SNC	June 2013
CEQA and Permitting	July 2013
Final Report to SNC	September 2013

### SNC PROJECT COSTS

PROJECT BUDGET CATEGORIES	TOTAL SNC FUNDING
Feasibility Study – Contract Labor	\$30,000
Engineering Report – Contract Labor	\$30,000
Permitting and CEQA – Contract Labor	\$30,000
Supplies-Testing	\$13,000
Mileage	\$100
Meeting Expenses	\$500
Outreach Materials	\$2,000
Administration	\$15,840
<b>SNC GRANT TOTAL</b>	<b>\$121,440</b>