



Water Quality Improvement Grant Program
Grant Application Form

Water Quality Improvement Grant

Watershed Preservation Grant

Project Summary

Project Title: Buckhorn Water Enhancement Projects

Project Description:

Provide an abstract that briefly describes the project. Limit: 500 characters

The purpose of these projects is to improve watershed condition by improving infiltration of runoff thereby increasing ground water recharge and reducing sediment runoff by improving vegetative ground cover through improved grazing distribution by both domestic animals and wildlife. Location is Lower West Clear Creek and Wickiup Creek 6th code Verde watershed.

The scope of work has been amended to include 3 additional stock tanks to be cleaned and sealed with bentonite. A lop-and-scatter of juniper task around Wickiup #1 on Forest Service land has also been added to the scope of work.

Authorizing Agency

Name: M Diamond Management LLC

Address: 3255 N Forest Service Road 618, #16

City: Rimrock State: AZ Zip Code: 86335

Authorizing Agency Contact

Last Name: Ingham First Name: Margaret

Title: Managing Member Phone Number: 928-202-1730 Fax Number:

E-mail: peggy@usa.net

Project Manager

Last Name: Ingham First Name: Margaret

Title: Managing Member Phone Number: 928-202-1730 Fax Number:

E-mail: peggy@usa.net

Project Period 1 year 2 years

Project Costs

Total Project Cost: 58,420.00
Funds Requested (maximum 60% of total project cost) 35,052.00
Matching Funds (minimum 40% of total project cost) 23,368.00

118,940.00
71,364.00
47,576.00

Application Details

I. Location and Land Ownership

a. City/Town: Rimrock, AZ County: Yavapai

b. Land Ownership: USFS

c. Provide Latitude and Longitude in decimal degrees for the main location of the project

Latitude: 34.559750 Longitude: -111.739472

How do I find the latitude and longitude of my area? [Click here](#)

d. Provide a map of the project area. For assistance in developing a map, contact the ADEQ Grant Coordinator

II. Pollutant(s) of Concern

- a. Is this water body identified as impaired based on ADEQ's 2010 Status of Ambient Surface Water Quality in Arizona Arizona's Integrated 305(b) Assessment and 303(d) Listing Report? Both reports can be found at <http://www.azdeq.gov/programs/water-quality-programs/surface-water-monitoring-and-assessments>
Contact ADEQ for assistance if necessary

b. Select the pollutant(s) of concern that this project will address.

Primary Pollutant: Secondary Pollutant, if any:

Other: _____

c. Clearly define the causes and sources of pollutants impacting the project area. Limit: 2500 characters

Shared goals - improved watershed condition; pool resources between permittee, Forest Service, AZ Game & Fish and other potential partners; stabilize head-cuts, using one rock structures, brush control and using limbs in channels, re-direct water flows; repair stock tanks and associated ditches; construct trick tanks for reliable water sources; juniper and mesquite reduction as part of improving grasslands and water flows to stock tanks; improve vigor of native perennial grasses and increase number of perennial grass species; go back to Buckhorn EA and utilize forage at the conservative use level of 30 to 40%; seeding native grasses; change type of grazing animal that uses pastures, like bulls, dry cows, yearlings; provide reliable water sources for wildlife as well.

Additional information is attached in the WinterRangeWaterIssuesNov2016.doc

III. Scope of Work

- a. Briefly describe the management measures or best management practices to be implemented to improve water quality. Limit: 5000 characters

Additional information is attached in the WinterRangeWaterIssuesNov2016.doc

~~1. Grassland along Forest Road (FR) #618 in Winter pasture. Water coming FR#618 needs to be spread across the landscape in a more efficient way that reduces erosion resulting in the head cuts.~~

Lop and Scatter of juniper within Wikiup Watershed. The task has been approved by the USFS.

~~2~~ Last/Lost Tank. Instead of using bentonite it was suggested that installing a trick tank within the tank foot print might be a better option for a reliable water source and improve livestock distribution.

3. Vernon Tank. Located at the upper end of the Heifer pasture, this tank is shown on the Forest GIS layer in the wrong pasture. We discussed either using bentonite at this tank or possibly a trick tank. Also noted with this tank was the amount of juniper cover in the watershed above the tank that is above the TES levels.

4. Cedar Bench Tank. This tank (Photograph 7) has two wing ditches (photographs 8 and 9) associated with it and both need to be re-contoured and cleaned to provide water to the tank.

5. Hance Tank. Make the road to the tank admin use only and construct a trick tank in the foot print of the tank

Three additional stock tanks are included in the scope of this project:

Mulcaire Tank
Cedar Mountain
Wikiup Tank #1



ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY IMPROVEMENT PROJECTS

CONTRACT NO.: EV18-0001 Project #20-006

AMENDMENT: #1

REVISED GRANT AGREEMENT:

BUDGET INCREASE

PURPOSE OF AMENDMENT:

The purpose of this Amendment is to update the grant agreement funding award.

THE CONTRACT IS HEREBY AMENDED, AS FOLLOWS:

Terms of Agreement for this Contract are amended as follows:

- Contract award **increase of \$36,312.00** for a new total grant agreement of **\$71,364.00**

EXCEPT AS NOTED HEREIN, ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME

M DIAMOND MANAGEMENT LLC

Contractor hereby acknowledges receipt and understanding of above amendment.

Margaret E Ingham 2/22/18
Signature of Authorized Individual Date

Margaret E Ingham Managing Member
Typed Name and Title

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

The above-referenced Contract Amendment is hereby executed this

5th day of *March*, 2018, at
Phoenix, Arizona

[Signature]
Trevor Baggiore, Director
Water Quality Division

Grant Award Increase Form

Project Title: Buckhorn Water Enhancement Project

Grant Number: ADEQ EV18-0001, Project # 20-006

Original Award: \$35,052.00

Requested Increase: \$36,312.00

Total Awarded Amount: \$71,364.00

Reason for Increase Request

Please be clear as to what circumstances led to the inability to complete the project as originally contracted. Be sure to include the following information:

- Indicate which elements of the project cannot be completed in the originally established timeline. What more must be accomplished before the project is completed?
- What uncontrollable and unforeseen circumstances occurred?
- What alternatives for meeting deadlines have been investigated, and why are they not viable?

Reason for Increase Request (expand box as needed)

Additional match funds were donated to project

Margaret Hagan

Authorized Agent signature

2/22/2018

Date

Email a signed original of this form to:

Elizabeth Boettcher, ADEQ Project Manger
Surface Water Section, Watershed Protection Unit
Arizona Department of Environmental Quality
1110 West Washington Street
Phoenix, Arizona 85007