

## Grant Application

### Part I - Grant Application Form and Signature Page

**Arizona Department of Environmental Quality**  
**Water Quality Improvement Grant Program**  
*Grant Application Form*

**Project Title** - Please limit the length of the title to one line.

Eagle Creek Watershed Restoration –Double Circles Ranch Phase

**Project Description** - The project description should identify the type of project and the name of the waterbody and/or ground water basin that the project will improve.

The Eagle Creek Watershed in northern Greenlee County is 161,172 acres of grazing land primarily leased from the US Forest Service. The ranchers in the area have been working together for the past several years to implement practices on a landscape scale that will improve water quality in Upper and Lower Eagle Creek. Because the area is large, involved multiple ranchers and multiple practices, the implementation of practices was divided into phases. In 2006 ADEQ awarded grant No. 8-007 to the watershed group for the implementation of water quality improvement practices and monitoring of their impacts. This project will be conducted in a partnership with Coronado RC&D and is a continuation of that project to install an additional 5.5 miles of fencing on the Double Circles Ranch that will support the implementation of a rotational grazing system that will benefit Eagle Creek.

**Authorizing Agency** - Enter the name of the company, agency, or tribal authority who is applying for the grant.

**Name:** Coronado Resource  
Conservation & Development Area  
**Address:** 656 North Bisbee Ave  
**City:** Willcox  
**State:** AZ  
**Zip Code:** 85643

**Authorized Agency Contact** - Enter the name of the person who will be accepting responsibility for the terms and conditions of the Grant Agreement. This person must sign the signature page.

**Name:** Richard Searle  
**Title:** Vice President  
**Phone #:** 520-384-2229 x 123  
**Fax #:** 520-384-2735  
**E-mail:** coronado\_council@yahoo.com

**Project Manager** - Enter the name, title and contact information of the individual who will have the day-to-day knowledge of the project and should be contacted if clarification is required:

**Name:** Ty Foster  
**Address:** 656 North Bisbee Ave.  
**City:** Willcox  
**State:** AZ **Zip Code:** 85643

**Title:** Project Manager  
**Phone #:** 520-384-2229 x123  
**Fax #:** 520-384-2735  
**E-mail:** tfoster@yahoo.com

**Project Period**

☒ 0 - 2 Years (Preferred)

☐ Greater than 2 years – (Provide justification in Part IV, Project Milestones)

<b>Project Costs</b>		<b>Location Information</b>	
<b>Funds Requested:</b>	<b>\$ 95100.00</b>	<b>Latitude</b>	<b>33 17 13</b>
<b>Matching Funds:</b>	<b>\$ 63,400.00</b>	<b>Longitude</b>	<b>109 26 21</b>
<b>Total Project Cost:</b>	<b>\$158,500.00</b>	<b>Hydrologic Unit Code</b>	<b>1504000502</b>
		<i>(See Part III – Scope of Work, Section G-5)</i>	
<b>Are you or your organization currently debarred, suspended or otherwise lawfully prohibited from any public procurement activity?</b> <input type="checkbox"/> <b>Yes</b> <input checked="" type="checkbox"/> <b>No</b>			

*Signature Page*

The undersigned hereby offers and agrees to perform in compliance with all terms, conditions, specifications and scope in this grant application. Signature certifies understanding and compliance with the application attached hereto. ADEQ may approve the grant application with modifications to scope, methodology, schedule, final projects and/or budget.

Authorized Signature \_\_\_\_\_

Date \_\_\_\_\_

Print Name \_\_\_\_\_

Company/Agency \_\_\_\_\_

Title \_\_\_\_\_

The Grant Application Form must be signed by the individual legally authorized to act on behalf of the applicant in conducting all official business relating to the project. Signing this form and submitting a grant application package, certifies that the applicant has authority to enter into the agreement, accept funding, and fulfill the terms of the proposed project if approved. Applicant is required to read the Water Quality Improvement Grant Agreement Terms & Conditions and be legally authorized to enter into an agreement with ADEQ.

## Part II - Executive Summary

Eagle Creek extends from the Mogollon Rim to the Gila River and is perennial for about 64 miles with 50% of those miles within the Apache Sitgreaves National Forest. Eight miles of it flows through private lands owned by members of the UECWA. The Upper Eagle Creek Watershed Association (UECWA) formed in 2003 to address the conditions within their watershed that were impacting Eagle Creek. They formed a partnership among the local ranchers, residents, US Forest Service and other local, state and federal agencies and developed a draft watershed plan.

Although Eagle Creek is not listed as an impaired water on the state's 303(d) list, it does flow into the Gila River which is listed as impaired just below the confluence of Eagle due to the exceedance of the former turbidity standard, indicating a sediment problem.

The UECWA watershed plan addresses sediment through the implementation of Best Management Practices (BMP) that increase ground cover and reduce sheet and rill erosion as non point sources of pollution. Because the size of the watershed is large 161,172 acres and the necessity to work in partnership to implement practices, the improvement plan was divided into phases that support the main goal. The Arizona Water Protection Fund and the Arizona Department of Agriculture and other partners have provided a portion of the funding to begin initial work on BMPs. A Water Quality Improvement Grant from ADEQ in 2006 (ADEQ #8-007) will implement a broad cross section of practices designed to increase cover on the watershed through infrastructure to support a rotational grazing system. This project will install an additional 5.5 miles of fence on the Double Circles Ranch in accordance with the watershed plan goals and the phases outlined in ADEQ project no. 8-007. The fence will be along Eagle Creek and the San Carlos Apache Nation in rugged country that is exceptionally hard to manage cattle in. This will increase management potential by controlling access to the creek and related riparian areas.

Monitoring for this phase of the project will be done in conjunction with the monitoring plan developed in project 8-007. Outreach for this phase will compliment the outreach plan for project 8-007 and provide additional fact sheets and brochures that promote the watershed approach of addressing water quality problems and the ADEQ Water Quality Improvement Program as a source for implementing solutions.

Match funding for this project will come from a grant from the Arizona Water Protection Fund (AWPF) and the Arizona Department of Agriculture (ADA) and local contributions of labor and equipment. AWPF will provide funding for another section of this fence and AGA will fund the water system needed to divide this area into functioning pastures.

This project is a key step in the implementation of the long range plan of the Upper Eagle Creek Watershed Association. It is a partnership between the local ranchers, US Forest Service, Coronado RC&D and several other local, state and federal groups and agencies. It has the potential to demonstrate the value of partnerships on impacting entire watersheds and with the monitoring plan, provide information that can be used across the nation.

### Part III - Scope of Work (A-G)

#### Section A – Water Quality Problem(s)

A-1 Problem: Unmanaged cattle grazing in riparian areas often removes vegetation and compacts soils during critical time periods increasing rate of runoff and sediment transport in addition to manure and urine deposited in these areas. Water quality degradation is often a result of these activities, leading to increased water temperatures, sedimentation, nutrient loads and decreased dissolved oxygen available for aquatic species. Riparian and aquatic habitats throughout these allotments provide important and designated critical habitat for a variety of federal and state listed species along with a diverse array of Forest and state sensitive and management indicator species. Eagle Creek, particularly stream reaches within the Clifton Ranger District, has long been noted and recognized as one of the last significant stream systems that offer habitat for a variety of native fish.

A-2 Pollution sources (primary and secondary):

#### Primary Pollution Source

Select a maximum of five (5) from the <b>BOLD</b> selections in <b>Appendix A</b> .		
Code #	Name	% of Project Area
1 <sup>st</sup> -1000	Agriculture	60%
2 <sup>nd</sup> -7000	Hydromodification	20%
3 <sup>rd</sup> -8000	Other NPS Pollution	20 %
	<b>Total</b>	<b>100%</b>

#### Secondary Pollution Source

Choose all appropriate pollution sources that apply from <b>Appendix A</b> - (Do not include <b>bolded</b> entries from primary category)		
Code #	Name	% of Project Area
8950	Wildlife	10%
8600	Natural sources	10%
1500	Range grazing	60%
7600	Removal of riparian vegetation	20%

### **Section B - Action Plan**

**B-1 Plan of Action:** This project will focus on an additional section of (5.5 miles) fencing as a follow up to ADEQ Project 8-007 that support a livestock management plan that increases cover on the watershed and reduces impact on Eagle Creek. The Double Circle Allotment consists of 30,890 acres that lie within the Eagle Creek Watershed. Permit holders Doug Dressler and Wilma Ann Jenkins have committed to implementing practices that will improve water quality in Eagle Creek and have agreed to defer 50% of the permitted livestock numbers for three full years to allow time for joint partnering efforts. The fence will be constructed between the Double Circles Ranch and the San Carlos Apache Nation beginning at the north west corner of Section 20, T2S, R28E and extending in a straight line, 5.5 miles south. (See attached map) Construction will follow US Forest Service specifications.

The area is extremely rugged. Fence building crews will be contracted to do the work. All materials will need to be packed in with workers camping on site. This will require 415 animal units or 2 packers on horseback with a 10 head string taking 42 trips. They will need to haul tool, fence materials, camp gear, fuel, oil, food and miscellaneous items in and out.

This fencing will improve water quality by increasing management options for livestock that include improved cover on the watershed, limited access to riparian areas and options for prescribed fire activity to reduce brush encroachment. To support the grazing management system that the fencing practice will allow, a grant from the Arizona Department of Agriculture will fund a water system in the Big Dry and NO Pastures.

**B-2 Method of Approach:** 14 Livestock Control Projects

**B-3 Management Measures**

- a. Project Site (area 1): 5.5 miles of fence located Sec 20 & 29, T2S, R28E
- b. BMPs: Fence, Grazing-planned systems, Livestock exclusion, Habitat restoration, Use exclusion, (Watering facility, Pipeline, trough tank-funded by ADA)
- c. Pollutant Type: 1100- sedimentation/siltation, 0930-Nitrates, 1000-pH, 2600-Exotic species, 0200-Low dissolved oxygen, 1400-Temperature, 2100-suspended solids
- d. Load Reduction Estimate: This project will support load reductions estimated as a benefit from the implementation of project 8-007, Nitrate concentrations are expected to be reduced by nearly 100% through the removal of livestock impacts and activity within riparian and wetland areas with exclusion fencing. Each fence enclosure will provide a buffer of upland vegetation that will act as a filter for overland flow. Alternative water sources will supplement fencing by encouraging livestock away from riparian areas. A 10-15% reduction in turbidity (expressed as total suspended solids) is expected in the second year after implementation. Water Erosion Prediction Project (WEPP) models based on based on soil, slope, cover and conditions as run by the US Forest Service for this area predict a 50 to 75% reduction in sediment.

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### ***Section C - Expected Outcomes***

#### **C-1 Goals:**

Improve water quality in Eagle Creek for threatened fish and aquatic species by insuring long term effectiveness of grazing management and overall watershed health.

#### **C-2 Project Longevity:**

Ongoing management of allotments by the UECWA permittees has shown substantial improvement in riparian and wetland recovery within each project site or allotment to date. Based on this, it is reasonable to assume that implementation of this project will demonstrate benefits within the first year after completion. Fencing, properly installed and barring natural disasters will last at least 25 years. Permittee has committed to properly maintain all improvements as required by the US Forest Service as required in each permits Annual Operating Instructions.

### ***Section D - Project Evaluation***

Monitoring is a key component of this project and will be covered under the monitoring strategy developed under ADEQ project number 8-007. This will include monitoring of water quality in Eagle Creek and upland vegetation monitoring with transects already in place.

### ***Section E - Public Education, Outreach, and Partnerships***

#### **E-1 Education and Public Outreach:**

Outreach for this project will be included in the activities outlined for ADEQ Project 8-007 and will produce an additional brochure and two fact sheets that outline the benefits of watershed partnerships, the watershed approach, and the ADEQ Water Quality Improvement Program. This information will be produced by Coronado RC&D with input from the Double Circles Ranch and the US Forest Service and with approval from ADEQ.

#### **E-2 Partnerships:**

This project is based on a partnership of stakeholders in the Eagle Creek Watershed. It includes: Double Circles Ranch and the other the ranchers, residents, US Forest Service, Natural Resources Conservation Service (NRCS), Gila Valley Natural Resource Conservation District, Greenlee County, Arizona Game & Fish, Arizona Department of Agriculture, Arizona Department of Water Resources, Arizona Water Protection Fund, Arizona Game and Fish, US Fish & Wildlife Service, San Carlos Apache Nation, Coronado Resource Conservation & Development Area (RC&D) and the Gila Watershed Partnership.

### ***Section F - Key Personnel***

The actual installation of the fence will be contracted to a company that has crews with experience in rough country fencing.

**Doug Dressler & Wilma Jenkins**, Permittees on Double Circles allotment. Will provide site supervision of fence installation. Work with project manager in the

selection of contractor and project implementation.

**Chase Caldwell-President Upper Eagle Creek Watershed Assn.**

Support and coordination with UECWA and ADEQ project 8-007

**Ty Foster, Project Manager-Coronado RC&D**

Experienced grant manager, will serve as a project liaison between funder, the Double Circles Ranch and other partners in the project

**Dave Henson, Eastern Arizona College Biology Professor**

Monitoring consultant on this project. Will implement the monitoring plan on ADEQ Project no 8-007 which will include impacts from this project.

**Kim Webb, Program Manager/Outreach Specialist-Coronado RC&D**

Will work with project partners to develop brochures and fact sheets as part of the outreach for this project.

**Donna Matthews, USDA/NRCS Coordinator for Coronado RC&D,**

15 years with USDA experienced in implementing/managing grant funded projects; will provide oversight on project.

**Josh Chapman, Biologist-US Forest Service**

Will provide oversight of the project and coordination with the US Forest Service

***Section G - Location & Site Plan***

- G-1 Map: See attached
- G-2 Site Plan: See attached
- G-3 County: Greenlee
- G-4 Watershed Name(s): Upper and Lower Eagle Creek (sub-watersheds of the Gila River Watershed)
- G-5 HUC Code (USGS): 1504000502
- G-6 Land Ownership: Federal US Forest Service
- G-7 Current Land Use: Forest, grazing and recreation (hunting)
- G-8 Size and Total of Project Site(s): Double Circles Allotment 30,890
- G-9 Waterbody Type(s): River/stream
- G-10 Affected Waterbody/Stream Name(s): Upper and Lower Eagle Creek
- G-11 Impaired Water: ☐ Yes ☒ No
- G-12 Length of Stream (if applicable): 64
- G-13 Miles of Stream Benefited (if applicable): 5.5 miles
- G-14 Acres of Riparian Habitat (if applicable): 150 acres

### Attachment 3

Task Description/Deliverables	Completion Date	Percent Complete
Task # 1= Execute contract with ADEQ, provide copy of liability insurance	March 2007	
Task # 2= Obtain all permits and clearances	June 2007	
Task # 3= Develop contract for fence construction	May 2007	
Task # 4= Construct fence	June 2008	
Task # 5= Develop Outreach Materials	June 2008	
Task # 6= Final Report	March 2009	

## Attachment # 4

ADEQ Grant Award #

Project Title:

Time Period: From

To

Grant Expenditures	Original Budget	Prior Expenditures	Current Expenditures	Cumulative Expenditures	Budget Remaining
Admin. Costs (10% max)					
Project Admin.	\$6,000			\$0.00	\$0.00
Direct Costs					
				\$0.00	\$0.00
Equipment				\$0.00	\$0.00
				\$0.00	\$0.00
Materials/Supplies	\$21,623			\$0.00	\$0.00
				\$0.00	\$0.00
Other				\$0.00	\$0.00
Contractual	\$67,477			\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
Personnel					
Salaries				\$0.00	\$0.00
				\$0.00	\$0.00
Sub-totals	\$95,100	\$0.00	\$0.00	\$0.00	\$0.00

Match Expenditures	Original Budget	Prior Expenditures	Current Expenditures	Cumulative Expenditures	Budget Remaining
Admin. Costs					
Project Admin.				\$0.00	\$0.00
				\$0.00	\$0.00
Direct Costs					
				\$0.00	\$0.00
				\$0.00	\$0.00
				\$0.00	\$0.00
Supplies	\$28,900			\$0.00	\$0.00
				\$0.00	\$0.00
Other				\$0.00	\$0.00
Travel	\$ 500			\$0.00	\$0.00
Contractual	\$30,500			\$0.00	\$0.00
				\$0.00	\$0.00
Personnel					
Salaries	\$3,500			\$0.00	\$0.00
				\$0.00	\$0.00
Sub-totals	\$63,400	\$0.00	\$0.00	\$0.00	\$0.00

Total Expenditures	\$158,500	\$0.00	\$0.00	\$0.00	\$0.00
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ADEQ - TABLE TOP  
# 9-003



# VALLEY MERCANTILE, INC.

Building Material Plumbing Supplies  
P.O. Box 92 Arimas, NM 88020-0092  
(505) 548-2291 Fax (505) 548-2522

All accounts are due and payable upon receipt of this statement.  
Accounts 30 days old will be charged 1 1/4% per month.  
Minimum charge \$1.00.

CUSTOMER'S ORDER NO.		PHONE		DATE 11/28/07	
NAME Double Circle Ranch					
ADDRESS Wilma Jenkins/Doug Dressler					
SOLD BY	CASH <input checked="" type="checkbox"/>	C.O.D.	CHARGE	ON ACCT.	MOSE RET'D.
PAID OUT					
QTY.	DESCRIPTION			PRICE	AMOUNT
80	2 pt Barb			45.95	3676.00
25	Barbs twisted			42.65	1066.25
1650	6' tie post w/ clips			42.00	6930.00
45	10# 14 gauge staples			10.95	492.75
2	Boxes 1/2" fence staples			61.95	123.90
<p>Tax</p> <p>Pol # CK 1641</p>					12288.90
					- 614.45
					11674.45
					678.58
					12353.03
RECEIVED BY					TAX
					TOTAL

464193

All claims and returned goods  
MUST be accompanied by this bill.

PRODUCT 2531

Thank You!

## 2639

**Cell: (928) 965-1706**



**Sold To:** WILMA JENKINS

Date:	Description	Ticket #	Tons	Per Ton	Amount
					\$0.00
					\$0.00
12/6/2007	Haul fenceing material from Animas NM. To Morenci				\$0.00
					\$450.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
	fuel surcharge				\$25.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
	SUBTOTAL:				\$475.00
					\$0.00
					\$0.00
					\$0.00
	THANKS				\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
					\$0.00
	SUBTOTAL:				\$0.00
					\$0.00
	TOTAL:				\$475.00

ARIZONA EQUIPMENT RENTAL, LLC  
2574 WEST HWY. 70  
THATCHER, AZ 85552  
PLEASE SEND ALL REMITTANCE TO THE TUCSON OFFICE

# Volvo Rents

## Construction Equipment

# INVOICE

# 002004210

<b>BILL TO:</b> DASH NOLDEN PO BOX 1092 MORENCI AZ 85540	<b>CUSTOMER:</b> 1741 <b>TEL:</b> 928-865-3807 <b>JOB SITE:</b> <b>TERMS:</b> ON RECEIPT  <b>DUE DATE:</b> 12/10/2007 <b>SALESMAN:</b> DL
<b>JOB LOCATION</b> DROP AT HWY 191 AND EAGLE CREEK RD MORENCI, AZ 85540	<b>INVOICE #:</b> 002004210 <b>INVOICE DATE:</b> 12/10/2007 <b>CONTRACT #:</b> 002002084 <b>RETURN SLIP:</b> <b>DIVISION:</b> THATCHER, AZ <b>PO#:</b> Page 1 of 1 MOB

CHARGED FOR A ONE DAY RENT PLUS DELIVERY AND PICK UP.

PRODUCT #	DESCRIPTION	DATE/TIME OUT	BILLED THRU	STATUS	QTY	UNIT PRICE	AMOUNT
52758-01	FORKLIFT 21'8K	Thu Dec 6/07 10:00AM	Thu Dec 6/07 3:00PM	RETN	1	180.00	180.00
	DAILY 180.00						
	SER# 194847			RENTAL PERIOD: 05:00 HOUR(S)			
	METER OUT/IN: 62/64		METER USED: 2	OT: 2			

DELIVERY	1	100.00
PICKUP	1	100.00
EPA FEE		1.80
DAMAGE WAIVER		21.60
SUBTOTAL:		403.40
P PROP TAX		2.70
SALES TAX		32.68
TOTAL:		<b>\$ 438.78</b>
DEBIT		438.78

TOT RENTALS: 180.00 TOT SERVICES: 223.40

CHK # 1661  
12/27/2007  
\$ 219.39

12/10/2007

X  
SIGNATURE

An Independently Owned & Operated Volvo Construction Equipment Rents, Inc. Franchise		
ARIZONA EQUIPMENT RENTAL 4221 S STATION MASTER DRIVE TUCSON, AZ 85714	Telephone 520-888-4055	Telex 520-888-4054