

A. Application Cover Page

Application Information

1. Title of Project: Gila Box Riparian and Water Quality Improvement Project

2. Type of Project:	3. Stream type	4. Date Submitted: August 1, 1995
<input type="checkbox"/> Water Acquisition	<input checked="" type="checkbox"/> Perennial	5. Date Received by ADWR: August 1, 1995
<input checked="" type="checkbox"/> Capital Project or other	<input type="checkbox"/> Intermittent	BLM Safford District
<input type="checkbox"/> Water Conservation	<input type="checkbox"/> Ephemeral	6. Applicant Name: Gila Resource Area
<input type="checkbox"/> Research		

7. Address (city, county, zip code)	8. In an AMA	Outside AMA <u>X</u>
BLM Safford District Office	<input type="checkbox"/> Phoenix	
711 14th Avenue	<input type="checkbox"/> Tucson	
Safford, Arizona 85546	<input type="checkbox"/> Prescott	
<i>Gila</i>	<input type="checkbox"/> Pinal	
	<input type="checkbox"/> Santa Cruz	

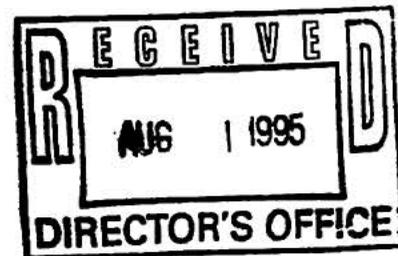
9. Contact person/title and phone Elmer Walls, Assistant Area Manager, Gila Resource Area , BLM number: (520) 428-4040

10. Type of application: New (X) Continuation ()	11. Project start date: 2/1/96 End date: 7/31/97
12. Other grants obtained or will apply to for funding: None Augmentation: () Partners for Wildlife () Heritage () Others _____	13. Estimated funding: a. AWPF \$ 157,223 b. Applicant 43,145 c. Other d. Total \$ 200,368
	14. Tax ID number: XXXXXXXXXX

15. The undersigned hereby offers and agrees to perform in compliance with all terms, conditions, specifications and scope in the application. Signature certifies understanding and compliance with the attached application. The Arizona Water Protection Fund Commission may approve grant award agreements with modifications to scope items, methodology, schedule, final products, and/or budget.

William Civish,
Typed Name of Authorized Representative
William J Civish
Signature

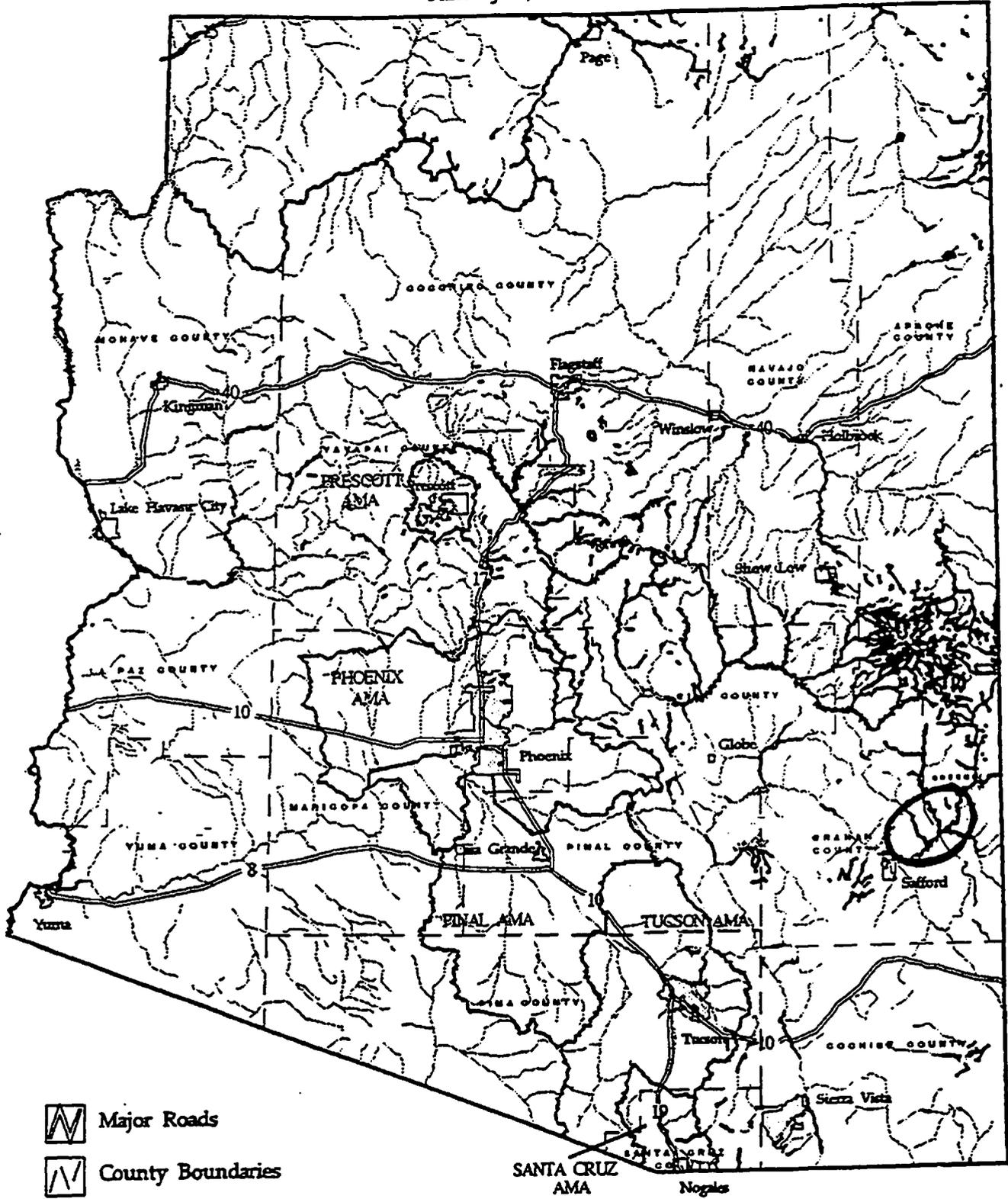
District Manager, BLM Safford District (520) 428-4040
Title and Telephone No.
8/1/95
Date Signed



STATE OF ARIZONA

Arizona Water Protection Fund

January 1, 1995



-  Major Roads
-  County Boundaries
-  Perennial Streams
-  Intermittent or Ephemeral Streams
-  Active Management Areas



APPLICANT NAME: SAFFORD DISTRICT - BLM

Circle the general location of proposed project

5(a) Title

Gila Box RNCA Riparian and Water Quality Improvement Project

5(b) Summary:

The purpose of the project is to improve and enhance the riparian habitat and water quality of the Gila Box Riparian National Conservation Area (RNCA) on the Upper Gila River.

The main objective is to achieve "proper functioning condition" of the riparian resources and improve the water quality of Gila River by moving livestock grazing on 21 miles of the Gila River in the RNCA to the uplands adjacent to the area. A second objective is to improve water quality of the Gila River and Bonita Creek by removing the cattle and by replacing existing diesel driven water pumps located in the river channels with solar powered pumps.

To accomplish the projects objectives the BLM will survey and design the necessary fencing and water systems to move grazing to the uplands. BLM will issue construction contracts to build approximately 6 miles of gap fencing in Allotments Nos. 4003 and 4010 along the San Francisco River and Eagle Creek. BLM will also issue contracts to install water lines, stock tanks and solar pumps to provide water for the upland livestock grazing. BLM will have existing diesel water pumps that serve Allotment Nos. 4616 and 4021 adjacent to Bonita Creek and the Gila River replaced with solar water pumps to eliminate the surface and ground water contamination problems commonly associated with fuel driven pumps.

The project would help resolve a critical issue identified in the Bureau's Riparian Management Plan, the Safford District Grazing Plan and the Gila Box RNCA Management Plans. Accomplishing the project objective will provide long term benefits for the wildlife and human communities which depend upon the resources of the Upper Gila River for life and leisure. The project maintains the economic benefits of cattle growing without degrading the riparian area or upland grazing allotments.

Accomplishing the goal of this project is supported by many local groups who are actively pursuing methods to improve water quality and stabilize and restore the riparian area of the Gila River just downstream of the RNCA in the Safford valley.

5(c) Introduction

The Gila Box Riparian National Conservation Area is 180 miles east of Phoenix, Arizona in Graham and Greenlee counties. The RNCA is located twelve miles east of the town of Safford and includes a 15 mile segment of Bonita Creek and 23 miles of the Gila River. Two other perennial waterways, Eagle Creek and the San Francisco River flow into the RNCA.

The Gila Box was designated a Riparian NCA by congressional legislation in 1990. It is being studied for designation as a wild and scenic river. The Gila Box was declared critical habitat for the razorback sucker in 1993, is proposed critical habitat for the proposed endangered cactus ferruginous pygmy owl, and is suitable habitat for the endangered willow flycatcher.

This segment of the Gila River consists of a deep narrow, twisting canyon where the river flows through. It is situated in the Basin and Range Physiographic Province in a transition zone between the Sonoran and Chihuahuan biotic communities making this area biologically highly diverse. The river in this area is free from impoundments and the shorelines are mostly primitive and undeveloped. The remote, rugged, incised nature of the canyon and the numerous drainages flowing into it on both sides of the river make this area very difficult and

Approximately 550 acres of riparian vegetation communities along the twenty-three miles of river provide essential or critical habitat for a large variety of species including 41 species of mammals, 167 species of birds, 44 species of reptiles and amphibians, 6 native fish species, and 8 introduced species. It also provides habitat for 21 special status species. The river provides an important migration corridor for many species of neotropical migratory birds. The riparian plant communities include mesquite bosques, cottonwood/willow, mixed broadleaf, and riparian scrub. The riparian area vegetation community is currently dominated by mesquite associations. The cottonwood/willow association is dominated by scattered, old mature trees.

Prior to early 1980's the Gila River was grazed year around and cattle from 10 allotments had access to the river. In the early 1980's initial fencing and water developments were begun to control livestock access to the Gila River by establishing upland suitable grazing areas. The upland areas surrounding the Gila River are rocky and the surface is not easily compacted. The increase use of the uplands by cattle as a result of these projects is mitigated by providing upland stock waters which help better disperse cattle use over the allotments. It is not necessary to reduce the number of animals on any of the allotments as a result of these projects. Existing fencing now controls livestock access to the Gila River on 6 of the 10 allotments.

Livestock from the 4 remaining unfenced allotments can still access the Gila River. These are the allotments which contain or border portions of the San Francisco River and Eagle Creek. Once livestock from these 4 allotments access the river they can range along 21 of the 23 miles of Gila River within the RNCA. Consequently, there has been continued yearlong grazing in the Gila River despite the completion of many miles of fencing and the development of upland livestock waters from most of the RNCA. Unfortunately, due to recent federal budget cutbacks the Gila Resource Area of BLM has been unable to complete its efforts to improve the riparian habitat by fencing the remaining sections of the Gila Box.

The potential benefits of the project can be observed by looking at the results achieved when the upper 2 miles of the Gila River within the RNCA was fenced 4 years ago and livestock access effectively controlled. Prior to gaining control of grazing this area was sparsely vegetated with little riparian habitat. Since the construction of the fence, there has been a noticeable increase in age class distribution of cottonwood and willow and increased density of riparian vegetation in sections of the river. In this area of the river, the streambank is becoming stabilized with dense stands of willow and cottonwood.

If funded, this project will support the efforts of the local Non Point Source Pollution Advisory Committee which comprises San Carlos, Duncan, and Safford. The project also would support the efforts of the regional Non Point Source Committee comprised of state, local, and federal representatives from both Arizona and New Mexico. The purpose of these groups is to restore the entire watershed of the Gila River to improved water quality.

Numerous articles and studies have been published regarding the impacts to riparian areas from livestock grazing and livestock exclusion. It is believed that the results of this project will further substantiate these studies. BLM, when the opportunity presents itself, will present the results of this project in local, regional, State and national forums and in its require annual Gila Box RNCA reports to Congress .

5(d) Objective

The primary objective of the Gila Box RNCA's Riparian and Water Quality Improvement Project is to improve 550 acres of riparian area associated with 21 miles of the Gila River from "functional at risk" to "proper functioning condition" by 2005.

Riparian-wetlands are functioning properly when adequate vegetation, landform, or large woody debris is present to:

- a) dissipate stream energy associated with high waterflows, thereby reducing erosion and improving water quality;
- b) filter sediment, capture bedload, and aid floodplain development;
- c) improve flood-water retention and ground-water recharge;
- d) develop root masses that stabilize streambanks against cutting action;
- e) develop diverse ponding and channel characteristics to provide the habitat and the water depth, duration, and temperature necessary for fish production, waterfowl breeding, and other uses;
- f) and support greater biodiversity.

Proper functioning condition is based on the understanding of physical and biological processes associated with riparian areas. It can be thought of as the threshold where vegetation, woody debris or geology prevents continual channel degradation from flowing water. Achievement of proper functioning condition will enhance habitat for neotropical migratory birds and the cactus ferruginous pygmy-owl. The proper condition will normally assist in the down-listing or delisting of the endangered southwestern willow flycatcher. In addition, bank stability will increase, water quality will improve, thus increasing the quality of the aquatic habitat.

The Bureau of Land Management's Riparian Management Goal is to restore and maintain 75 percent of the Bureau's riparian-wetland areas in a "proper functioning condition" by 1997.

5(e) Methods and Monitoring

Methods

To complete the project of controlling livestock access to the Gila River within the RNCA it will be necessary to complete gap fencing on the uplands, install water gaps on Eagle Creek and the San Francisco River, install solar pumps, and develop livestock waters on the uplands.

Surveys will be conducted to site fence alignments and identify where natural barriers can be used in place of fencing. Fence corridors will be flagged by BLM crews. All fence will be on BLM lands permitted for grazing. BLM engineers and range management staff will design the necessary water systems and fencing. Because of the difficult terrain fence and pipe materials will to be flown in by helicopter and the sites accessed by horseback for the most part. All fence installation will be supervised by BLM staff.

BLM will complete an environmental assessment for the proposed construction activities once the funding is awarded. This process will be completed within 90 days of initiation. Once the environmental assessment is completed, BLM will solicit competitive bids, evaluate proposals and award the contract for the construction projects. Because of difficulty accessing the area, both the fencing and water system installations will take longer than normal (possibly 180 days). Construction of the projects will commence 30 days after the contract is awarded. Upon funding of the proposal, BLM personnel will meet with grazing operators to agree in writing upon maintenance responsibilities and inspection schedule for the range developments. Fences in other areas of the Gila Box are maintained through cooperative with the ranchers agreements.

All fences will be built to BLM specifications allowing safe movement for wildlife. These specifications call for a four strand fence, with three barbed wire strands and the bottom strand smooth wire. Fence posts will be 30 feet apart with three stays in between. Wire spacing will be in accordance with illustration 10 of BLM Handbook 6510 (attached). Fence routing and design will make use of natural barriers where practical to minimize costs.

The installation of the solar water pumps will be contracted and BLM will coordinate the removal of the old pumps with the current ranchers. Water systems and tanks placement will be coordinated with ranchers. The final removal of the cattle will be the responsibility of the rancher and be on a date agreed upon with BLM. Cattle will be permanently removed from the riparian area in the Gila Box RNCA.

The fencing and water gaps will control livestock access and permit the riparian area to achieve proper functioning condition. The solar pumps will improve water quality by replacing the existing diesel powered pumps. Spills and leakage from the existing

Methods (continued)

pumps can cause degradation of water quality by migration to the terrace water table which is connected hydrologically to the Gila River surface flow.

A two mile enclosure was built in Bonita Creek which is a tributary to the Gila River. The enclosure was in place for 10 years until the 1993 flood. This two mile area withstood the flood markedly better than the surrounding areas and still supports varied age classes of trees with good density.

The potential benefits of the project can be observed by looking at the results achieved when the upper 2 miles of the Gila River within the RNCA was fenced 4 years ago and livestock access effectively controlled. Prior to gaining control of grazing this area was sparsely vegetated with little riparian habitat. Since the construction of the fence, there has been a noticeable increase in age class distribution of cottonwood and willow and increased density of riparian vegetation in sections of the river. In this area of the river, the streambank is becoming stabilized with dense stands of willow and cottonwood.

BLM and the ranchers who hold the permits for grazing the effected allotments will monitor and maintain the fencing program for as long as the cattle remain on the allotments.

Monitoring

Riparian areas are functioning properly when there is adequate structure present to provide the listed benefits applicable to a particular area. In order to determine the benefits are applicable to a particular riparian area, an analysis must be made based on the riparian area's capability and potential. If, for example, the system does not have the potential to support fish habitat, that criteria would not be used in the assessment. Bureau of Land Management Technical Reference 1737-9, Process for Assessing Proper Functioning Condition contains a complete discussion of and application of the concept. (A copy of the manual is included with the grant application.)

Team Approach: A proper functioning condition assessment (a copy of the evaluation form follows) will be conducted annually for the first three years and every three years there after by a BLM interdisciplinary team. The team will consist of BLM vegetation specialist, hydrologist, wildlife biologist and soil scientist. The team will

- 1) Conduct rod and level survey on the 13 established stream cross sections every three years.**
- 2) Established photo points associated with the cross sections will be re-taken annually. Photos will include upstream, downstream and cross channel.**
- 3) Conduct vegetation transect at each cross section to determine total ground cover, species frequency, and tree height and age density every three years.**

Conducting the proper functioning condition assessment will provide the information to determine if the actions taken are meeting the objective. Since proper functioning condition can take several years to reach, the cross section surveys, photo points and vegetation transects will document incremental change from project completion to proper functioning condition.

A USGS stream gaging station is located 1 mile downstream of the west end NCA boundary near Solomonville. The station has been operating since 1914. Daily streamflow and quarterly water quality data including sediment and coliform are available from the USGS. The BLM will analyze this data once a year for three years to determine reductions in sediment load and coliforms.

Quarterly progress and expenditure reports will be filed during the term of the contract. However, only small changes will be evident until the cattle have been off the area for more than 2 years. BLM's interdisciplinary team will continue to conduct assessments and have the information available for the AWPf Committee and its staff to review whenever they desire.

C. Location Information Sheet/Land Ownership

LOCATION INFORMATION SHEET/LAND OWNERSHIP FORM

This sheet is to be completed for capital, water acquisition, or research projects, which involve a specific stream reach or watershed area. If the exact extent of the project area is not completely defined at the time this sheet is completed, please make note of this in the appropriate space provided, and complete the form with location information which is as accurate as possible.

- 1. County: Gila / Greenlee 2. Section: Numerous sections in township Township: T 5 S
- 4. Ranges: 29 & 30 E. 5. Stream Name: Gila River (Upper), San Francisco River, Eagle Creek
- 6. Landownership: Bureau of Land Management *Sec. T6S 28E*
- 7. Current land use: Riparian National Conservation Area - Preservation/Recreation/Some Grazing
- 8. Upstream extent of project area and elevation: 2 miles S. of Clifton on the San Francisco River
- 9. Downstream extent of project area and elevation: Confluence of Bonita Creek and the Gila River
- 10. Length of stream through project area: 23 miles of the Gila, 10 miles on San Francisco, 3 miles of Eagle Creek
- 11. Size of project area (in acres): The allotments are close to 10,000 each. The river probably has 550 - 700 acres of riparian vegetation. Probably 200-300 acres of riparian on the other rivers.
- 12. Is the project area fully defined at this time: Allotments and corridors are defined but exact fence locations will require survey
- 13. Ownership of land surrounding project area and its current use:

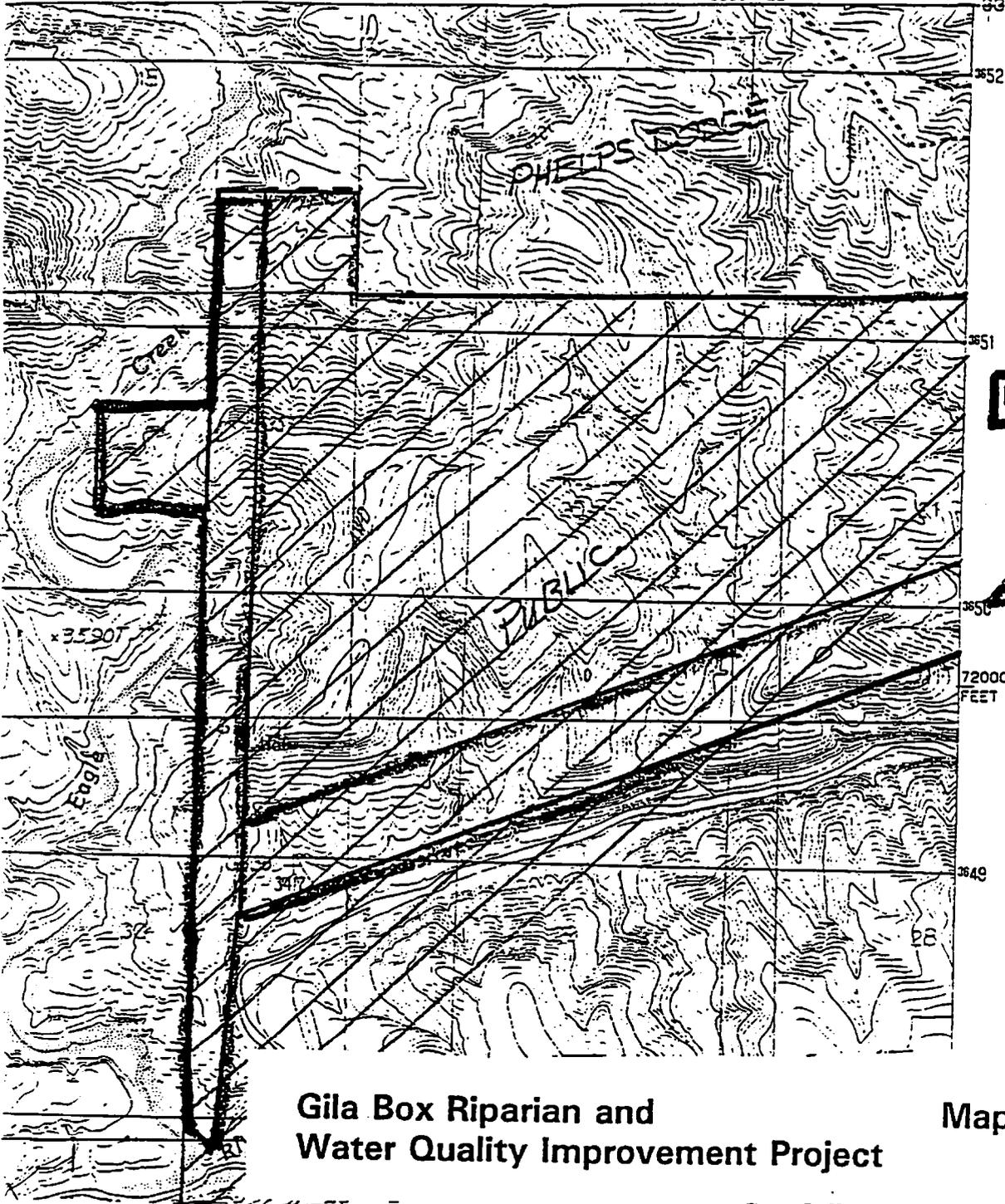
<p>North: BLM - Grazing/Multiple Use Management. Beyond BLM is Phelps Dodge Land used for grazing.</p>	<p>South: BLM Gila Box RNCA Dispersed Recreation and Riparian Conservation</p>
<p>East: BLM Gila Box RNCA Riparian Conservation and Dispersed Recreation. Phelps Dodge on East side of allotments on east portion of the project.</p>	<p>West: BLM Gila Box RNCA Dispersed Recreation and Riparian Conservation</p>

- 14. Provide directions to the project site from the nearest town. List any special access requirements.

The Gila Box RNCA is northeast of Safford and can be accessed from a number of directions. The sites that are being fenced are very remote and will require assistance from the Safford District Office and the Gila Resource Area staff to locate. The solar pumps on Bonita Creek are to the north of the RNCA and will require staff assistance to reach. Four wheel driving and some horseback riding may be necessary to reach these sites. Helicopter inspections may be the easiest way.

GILA BOX QUADRANGLE
 ARIZONA
 7.5 MINUTE SERIES (TOPOGRAPHIC)

649 650 740000 FEET 109° 22' 30" 33° 00'



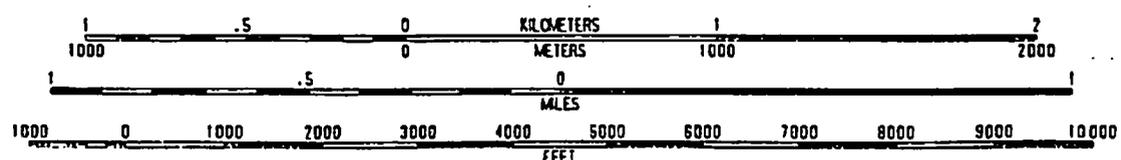
Fence Corridors

Gila Box Riparian and
 Water Quality Improvement Project

Map Origin Date
 7/25/95

NORTH ↑

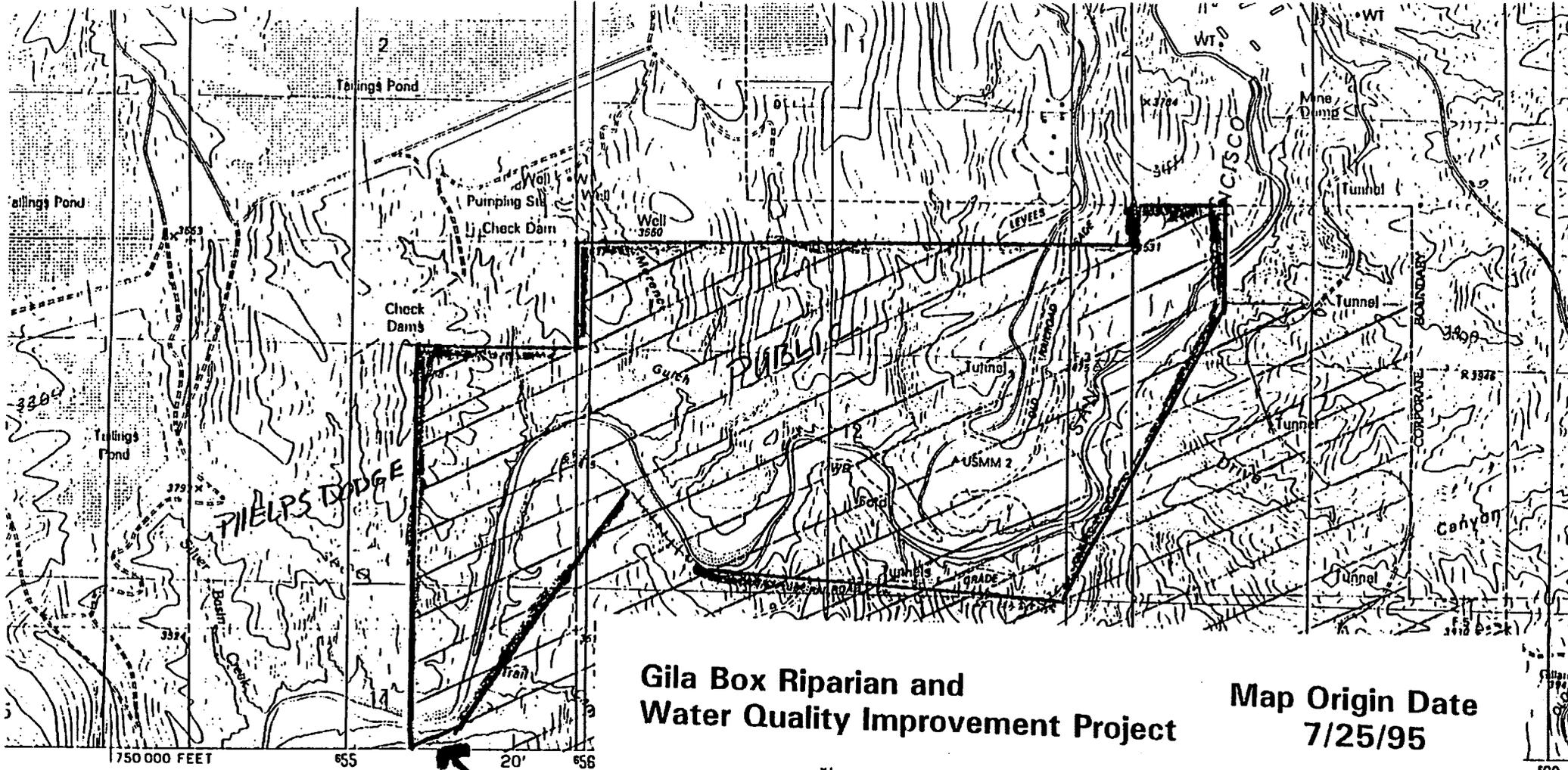
SCALE 1:24 000



CONTOUR INTERVAL 40 FEET
 To convert feet to meters multiply by .3048
 To convert meters to feet multiply by 3.2808

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
 FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225
 OR RESTON, VIRGINIA 22092

PROVISIONAL MAP
 used from original
 script drawings. Infor-
 mation shown as of date of
 check. T



Gila Box Riparian and Water Quality Improvement Project

Map Origin Date
7/25/95

Fence Corridor

SCALE 1:24 000



AL SURVEY
 SCS, NAD83
 1959
 1962
 1984
 1989
 USE MERCATOR
 ZONE 12
 11°N EAST ZONE
 DATUM OF 1929
 RICAN DATUM
 corner ticks

PROVISIONAL MAP
 Produced from original
 manuscript drawings. Infor-
 mation shown as of date of
 field check.

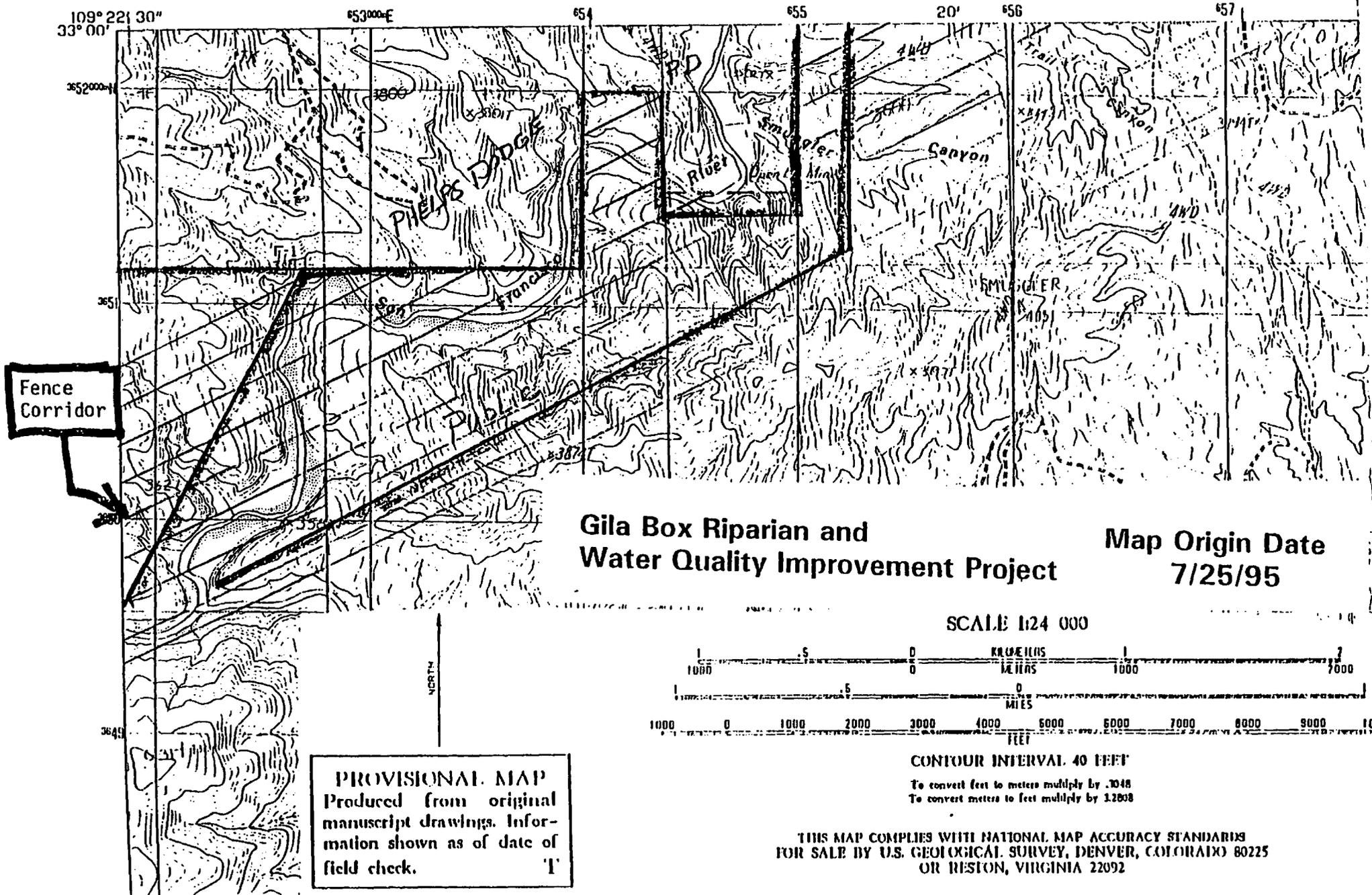
CONTOUR INTERVAL 40 FEET
 To convert feet to meters multiply by .3048
 To convert meters to feet multiply by 3.2808

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
 FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225
 OR RESTON, VIRGINIA 22092

Charles of any
 2 and verified

1
 4
 6
 ADJ01

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



Gila Box Riparian and
Water Quality Improvement Project

Map Origin Date
7/25/95

SCALE 1:24 000



CONTOUR INTERVAL 40 FEET

To convert feet to meters multiply by .3048
To convert meters to feet multiply by 3.2808

PROVISIONAL MAP
Produced from original
manuscript drawings. Infor-
mation shown as of date of
field check. T

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225
OR RESTON, VIRGINIA 22092

5(h) End Products and Significance of the Project

- 1) Approximately 6 miles of gap fencing to control grazing access to the Gila River from Eagle Creek and the San Francisco River will be installed, effectively eliminating grazing from 23 miles of riparian habitat.
- 2) 3 new water systems to support live stock grazing in the durable uplands surrounding the Gila Box RNCA will be installed to mitigate displacing the from the riparian area.
- 3) Three 3 solarjack water pumps will be installed to replace existing diesel pumps located in Bonita Creek and the Gila River, effectively reducing the pollution associated with fueling these pumps in riparian zones.
- 4) Three new solarjack pumps will be installed as part of the new stock water development to transport water from the river to 6 stock tanks to disperse impacts of grazing in the uplands.
- 5) Cattle ranchers will be able to continue operations without decreasing the size of their herds and consequently not reducing the economic impacts of grazing in this area.
- 6) The desired long term effect of this project is to eventually restore the 23 miles of the Gila River in the Gila Box RNCA to a "proper functioning condition" (in about 20 years) which should have the following effects:
 - > provide clean water and good habitat for aquatic species,
 - > provide dense root systems along stream banks that will provide overhanging banks for escape cover and protection of different aquatic species,
 - > increase the amount of wildlife habitat and habitat diversity,
 - > enhance a substantial portion of neotropical migratory bird and cactus ferruginous pygmy owl habitat in this area,
 - > improve willow flycatcher habitat from potentially suitable to suitable, > potentially reduce peak flows and downstream flood damage,
 - > increase the vegetative ground cover and organic matter production which will improve soil stability and provide better protection from periodic flooding.
- 7) A final project report will be compiled and forwarded to the Water Protection Fund Committee. While numerous articles and studies have been published regarding the impacts to riparian areas from livestock grazing and livestock exclusion, the results of this project will further substantiate the effectiveness of such management practices in the desert southwest. BLM will seek opportunities to present the results of this project at various forums.

5(i) Personnel

Elmer Walls - will serve as the project leader for this project and the primary contact person. He is currently the Chief of Renewable Resources for the Gila Resource Area. He holds a B.S. in Range Management and has worked in the range conservation and resource management fields for over 18 years.

Clay Templin - will assist Elmer as a project leader and conduct field supervision for the project. He has a B.S. in Range Management and has been employed in the range conservation position with BLM for over nine years. He currently serves as a Range Conservationist for the Gila Resource Area which includes the Gila Box RNCA.

Hanna West - is a BLM Hydrologist for the Gila Resource Area. She has a M.S. in Watershed Management and 3 years of service with the BLM. she will serve on the interdisciplinary team conducting the monitoring and measuring the long term impacts of the project.

Ben Robles - is a BLM Wildlife Biologist in the Gila Resource Area. He holds a B.S. in Wildlife Sciences and has over 17 years of field experience. he has been intricately involved in studying the Gila Box RNCA proper functioning conditions. He will serve on the interdisciplinary team monitoring the effects of the project.

Linc Luster - is a BLM Range Technician serving in the Gila Resource Area. He has over six years of service in the range management field. he will be assisting Clay Templin and Elmer Walls in supervising the contract labor for the project.

Cattle ranches holding permits for the affected allotments will assist in various phases of the project and will responsible for removing the cattle once fencing and water systems are in place. Rancher assistance in monitoring fences and proper functioning of water systems will be an on going contribution to the riparian and water quality management efforts in the Gila Box RNCA.

5(k) Community Support

The Gila Box RNCA was established by action of the US Congress and has be subject to all public planning and National Environmental Protection Act policies relative to public notice and involvement. The Gila Box RNCA has a broad based Secretary of Interior appointed Advisory Commission which helped hold extensive public hearings on the area's management plan. The proposed project and actions have been supported by the public and worked out with the effected ranchers during the planning process.

This project supports the efforts of the local Non Point Source Pollution Advisory Committee which comprises representation from San Carlos, Duncan, and Safford. It also supports the efforts of the regional Non Point Source Committee comprised of state, local, and federal representatives from both Arizona and New Mexico. The purpose of these groups is to restore the entire watershed of the Gila River and to improve water quality. Their efforts have also been review through public meetings and a public planning process.

This project has the support of the effected ranchers and BLM's neighbor, the Phepls Dodge Corporation which manages adjacent lands.

5(l) Existing Plans

This project is consistent with the Safford District Resource Management Plan, Safford District Grazing EIS, and the Draft Gila Box Riparian National Conservation Area Plan.

This project is consistent with the local Non Point Source Pollution Advisory Committee efforts. It also supports the efforts of the regional Non Point Source Committee comprised of state, local, and federal representatives from both Arizona and New Mexico.

G. Project Budget Sheets

PROJECT BUDGET
 Cost Estimates: Capital/Water Acquisition (CAP or Effluent)

	FUNDING SOURCES			TOTAL
	AWPF	Other	Donated Mat./Serv.	
ADMINISTRATION (management and overhead) (1)				
Overhead (5% of AWPFC Request)	7,487			7,487
Overhead (5% donated amount)			2,055	2,055
PROJECT LABOR				
BLM Field Personnel (and contributed labor by cattlemen)			37,352	37,352
Travel (staff & volunteers)	3,576		3,578	7,155
Per diem (BLM staff)	160		160	320
CONTRACT SERVICES				
Installation of Water Pumps	15,000			15,000
Installation of Water System	10,000			10,000
Installation of Gap Fencing Helicopter Time (15 hours)	50,000 12,000			50,000 12,000
PROJECT MATERIALS/SUPPLIES				
Galvanized 1 1/4 pipe (3,000 ft)	10,000			10,000
Stock Tanks - 2,000 gal. (4)	8,000			8,000
Fence materials (6 miles)	16,000			16,000
CAPITAL OUTLAY				
Solar Water Pumps (5) @ \$5,000	25,000			25,000
TOTALS	\$ 157,223		\$ 43,145	\$ 200,368

(1) Administration is limited to 5% of the total dollars requested for a project.

(2) Include wages, salaries, and fringe benefits.

(3) Attach list of capital equipment expenditures over \$1,000.00.

**Gila Box
Riparian and Water Quality Improvement Project**

Capital Cost

Over \$5,000

5 Solarjack Water Pumps (for permanent installation)	\$5,000 each	\$25,000
---	--------------	----------

Over \$1,000

4 2000 gallon water storage tanks for uplands (for permanent installation)	\$2,000 each	\$ 8,000
--	--------------	----------

**ARIZONA WATER PROTECTION FUND
GRANT AWARD AGREEMENT**

Project Title: Gila Box Riparian and Water Quality Improvement	Project Purpose: Improve and enhance the riparian habitat and water quality of the Gila Box Riparian National Conservation Area on the Upper Gila River.									
Grantee: (Name, Address, EIN No.) Bureau of Land Management Safford District Office 711 14th Avenue Safford, Arizona 85546	Type of Project: <input type="checkbox"/> Water Acquisition <input checked="" type="checkbox"/> Capital Project or Other <input type="checkbox"/> Water Conservation <input type="checkbox"/> Research	AMA: <input type="checkbox"/> Phoenix <input type="checkbox"/> Tucson <input type="checkbox"/> Prescott <input type="checkbox"/> Pinal <input type="checkbox"/> Santa Cruz <input checked="" type="checkbox"/> Outside AMA								
This Agreement shall become effective: <input checked="" type="checkbox"/> Upon the date it is filed with the Arizona Secretary of State <input type="checkbox"/> Upon the date it is executed by both parties	Grant Amount: <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:40%;">AWPF</td> <td style="text-align: right;">\$157,223</td> </tr> <tr> <td>Applicant</td> <td style="text-align: right;">43,145</td> </tr> <tr> <td>Other</td> <td style="text-align: right;">—</td> </tr> <tr> <td>Total</td> <td style="text-align: right;">\$200,368</td> </tr> </table>		AWPF	\$157,223	Applicant	43,145	Other	—	Total	\$200,368
AWPF	\$157,223									
Applicant	43,145									
Other	—									
Total	\$200,368									

Termination Date: Thirty-four months from the effective date of the Grant.

TERMS OF AGREEMENT

This Grant Award Agreement is entered into by the **BUREAU OF LAND MANAGEMENT (BLM)**, hereinafter referred to as the **GRANTEE**, and the **ARIZONA WATER PROTECTION FUND COMMISSION (AWPF)** through its Chairman, hereinafter referred to as the **COMMISSION**. The undersigned agree to fulfill the terms and conditions of this Agreement, and to abide by all contractual and statutory regulations governing the expenditure of Arizona Water Protection fund monies.

This document, including the Scope of Services and all general and special provisions attached, shall constitute the entire agreement between the parties, superseding all other understandings oral or written.

The parties hereto agree to carry out the Provisions of this Grant.

BUREAU OF LAND MANAGEMENT Signature of Authorized Individual Date <u>6/28/96</u>	ARIZONA WATER PROTECTION FUND COMMISSION Signature of Authorized Individual Date <u>7/8/96</u>
William Civish Typed Name	John Keane Typed Name
District Manager, Safford District Typed Title	Chairman Typed Title

ARIZONA WATER PROTECTION FUND
CONTENTS PAGE

THIS GRANT CONSISTS OF:

	<u>Page No.</u>
1. COVER PAGE	1
2. CONTENTS PAGE	2
3. GENERAL PROVISIONS	3
4. SPECIAL PROVISIONS	7
5. SCOPE OF SERVICES	
A. Effective Date	8
B. Term	8
C. Notices, Correspondence and Reports	8
D. Deliverables	8
E. Payment	8
F. Scope of Work	9
6. ATTACHMENT(S)	

ARIZONA WATER PROTECTION FUND
GENERAL PROVISIONS

1. DEFINITIONS:

As used throughout the General Provisions, Special Provisions, and the Scope of Services, the following terms shall have the meanings set forth below:

- a. "Chair" means the chairperson of the Arizona Water Protection Fund or a person duly authorized by the Chair to act on the Chair's behalf.
- b. "Commission" means the Arizona Water Protection Fund Commission.
- c. "Grant" means the agreement between the Arizona Water Protection Fund Commission and the Grantee to provide the services as set forth herein.
- d. "Grant Officer" means the person designated by the Chair to administer the Grant.
- e. "Grantee" means the person, firm, or organization performing the services or delivering the items described in this Grant.
- f. "Scope of Services" means the provisions of this Grant that delineate the nature and manner of the specific services to be performed and describe the items to be supplied in performing this Grant. If the provisions of the Scope of Services conflict with the Special Provisions or the General Provisions, the terms of the Scope of Services shall govern.
- g. "Shall" means what is mandatory.
- h. "Special Provisions" means provisions which alter the General Provisions. If the provisions of the Special Provisions conflict with the General Provisions, the Special Provisions shall govern.
- i. "State" means the State of Arizona.
- j. "Technical Administrator" means the person designated by the Chair to coordinate the technical aspects of this Grant between the Grantee and the Grant Officer.

2. GENERAL REQUIREMENTS:

- a. This Grant shall be interpreted in accordance with Arizona law.
- b. The Grantee shall obtain and maintain all licenses, permits and authority necessary to render services under this Grant and shall abide by all applicable State laws.
- c. The parties agree that the Grantee shall not be considered an officer, employee or agent of the Commission.

3. BOOKS AND RECORDS:

The Grantee shall keep adequate books and records related to work performed and expenditures incurred in accordance with this Grant's Scope of Services for a period of five (5) years after the termination of the Grant. Financial records shall: (1) identify the task completed; (2) include records of the time the Grantee spent in performing the services set forth in the Scope of Services; (3) include original copies of invoices, statements, sales tickets, billings for services and similar documents in this Grant as necessary to document all expenditures applicable to this Grant.

ARIZONA WATER PROTECTION FUND
GENERAL PROVISIONS

4. INDEMNIFICATION:

The Grantee agrees to indemnify and defend the State, its officers, agents and employees, and hold them harmless from and against all losses, damages, expenses and liability resulting from injury to or death of any person or loss of or damage to property, or claims of such injury, death, loss or damage to property, or damage due to any negligent act or omission of the Grantee, his employees or agents in connection with the work performed under this Grant.

5. TERMINATION OF GRANTS:

The Commission or the State may terminate this Grant as described below:

- a. The Commission, in addition to other rights set forth elsewhere in this Grant, reserves the right to terminate this Grant in whole or in part, without cause, effective thirty (30) days after mailing written notice of termination by certified mail, return receipt requested, to the Grantee, or if for default, upon receipt of written notice of termination.
 - 1) In the event of termination as provided in this Section, the Grantee shall stop work as specified in the notice of termination.
 - 2) If the payments prescribed by this Grant are made on a reimbursable basis, the Commission shall pay the Grantee the Grant price for all services completed in accordance with the Scope of Services as approved by the Grant Officer. In addition, the Commission shall pay to the Grantee its reasonable actual costs for work in progress as determined by generally accepted accounting principles and practices. If the payments have been made on an advance basis, the Grantee shall return all unexpended funds within fifteen (15) days of receipt of notice of termination. Upon termination under this Section, the Grantee, at the Commission's request, shall deliver to the Commission specified completed documents, programs, data, and other information described in the Grant.
- b. The State may cancel this Grant without penalty or further obligation to the State pursuant to A.R.S. § 38-511.
- c. In the event of cancellation under Section 5.b. of the General Provisions of this Grant or if the term of the Grant expires, the Grantee shall perform those acts and receive payment as established in Section 5.a. of the General Provisions of this Grant.
- d. In the event that the parties mutually agree to terminate a portion of the original Grant contract, the Grantee shall continue to perform this Grant to the extent not terminated under the provisions of this Section.

6. NON-DISCRIMINATION:

The Grantee shall comply with all applicable non-discrimination laws including, but not limited to, State Executive Order No. 75-5.

7. GRANT PAYMENTS:

- a. Payments made by the Commission to the Grantee pursuant to the Grant are conditioned upon the availability to the Commission of funds authorized for expenditure in the manner and for the purpose provided herein. The Commission shall not be liable for any purchases entered into by the Grantee prior to the effective date of the Grant.

ARIZONA WATER PROTECTION FUND
GENERAL PROVISIONS

- b. If the Grant payments are made on a reimbursable basis, payment made by the Commission to the Grantee are conditioned upon receipt of an applicable, accurate and complete invoice prepared by the Grantee. If payments are made on an advance basis, the Grantee shall provide the Commission with such invoices at a time prescribed by the Commission.
- c. If the Grantee is determined by the Commission to be in default in the performance of any obligation under this Grant, the Commission may, at its option and in addition to other available remedies, either adjust the amount of payment or withhold payment until satisfactory resolution of the default.

8. RECOUPMENT OF GRANT PAYMENTS:

The Grantee shall reimburse the Commission for all Grant funds which are determined by the Commission not to have been spent in accordance with the terms of this Grant.

9. INSPECTION:

Commission representatives and other appropriate agents of the State shall, with timely, written notice to the Grantee, be entitled to review and inspect the Grantee's records, its program operation, the site of the program, and data which pertain to the work specified in the Scope of Services during the term of this Grant.

10. NOTICES:

Whenever notice is required pursuant to this Grant, the notice shall be in writing and shall be directed to the persons and addresses specified for such purpose in the Scope of Services or to such other persons and addressees as either party may designate to the other party in writing. Notice shall be delivered in person or by certified mail, return receipt requested.

11. AMENDMENTS:

Amendments to this Grant shall be in writing and signed by all parties to the Grant.

12. SUBCONTRACTS:

- a. The Grantee may subcontract or consult with other parties to perform one or more of the Tasks which are described in the Scope of Services.
- b. Proposals to subcontract any task or segment described in this Grant must be approved by the Commission prior to the commencement of the subcontracted work.
- c. Any subcontractor or consultant participating in this Grant shall be bound by the duties set forth in this Grant.

13. WAIVERS/ASSIGNMENTS:

- a. Neither the Grantee nor the Commission shall waive or modify any condition or requirement contained in or made a part of this Grant without a written amendment to this Grant.
- b. The Grantee shall not assign the obligations under this Grant to another party.

ARIZONA WATER PROTECTION FUND
GENERAL PROVISIONS

14. INCORPORATION OF APPLICATION:

The Grantee's approved application for grant funds is incorporated by reference as part of this agreement; however, the terms of this agreement shall take precedence over the terms of the approved application in the event of conflict or ambiguity.

15. OPERATION AND MAINTENANCE:

The Grantee shall operate and maintain grant assisted capital improvements for the period of time specified in this Agreement. The Grantee shall provide reasonable protection of any project improvements provided pursuant to this Grant to discourage vandalism, for the term of the Grant.

16. EQUIPMENT:

Any equipment purchased by the Grantee with a unit value of \$5,000.00 or more and purchased exclusively with project funds provided by the Commission, shall be surrendered to the Commission upon completion of the project.

17. DATA:

- 1) All data, reports and other deliverables prepared or collected by the Grantee in carrying out the terms of this Grant shall become property of the Commission.
- 2) At the termination of this Grant, the Grantee shall provide the Commission with all data collected which is used to prepare any Grant deliverables.

ARIZONA WATER PROTECTION FUND
SPECIAL PROVISIONS

The following Special Provisions alter the General Provisions. If the provisions of the Special Provisions conflict with the General Provisions, the Special Provisions shall govern.

1. Add the following provision:

PUBLIC ACCESS:

A Grantee which is subject to the Freedom of Information Act or similar public access law shall be allowed to provide the public with copies of any data or deliverables produced pursuant to this Grant without requesting approval from the Commission.

ARIZONA WATER PROTECTION FUND
SCOPE OF SERVICES

A. EFFECTIVE DATE:

The Grant shall become effective upon the date it is filed with the Arizona Secretary of State.

B. TERM:

This Grant shall terminate thirty-four months from the effective date.

C. NOTICE, CORRESPONDENCE, REPORTS AND PAYMENTS:

1. Notices, correspondence and payments from the Commission to the Grantee shall be sent to:

Administrator:

Elmer Walls

Bureau of Land Management

Safford District Office

711 14th Avenue

Safford, Arizona 85546

Phone:

2. Notice and correspondence from the Grantee to the Commission shall be sent to:

Grant Contract Officer:

Ralph Ellis

Arizona Department of Water Resources

500 North Third Street

Phoenix, Arizona 85004

Phone: (602) 417-2450

Fax: (602) 417-2401

3. Any invoices, technical reports and inquires regarding the technical aspects of this Grant should be made to:

Technical Administrator:

Patricia McCraw

Arizona Department of Water Resources

500 North Third Street

Phoenix, Arizona 85004

Phone: (602) 417-2460

Fax: (602) 417-2423

D. DELIVERABLES:

The Grantee shall submit two copies of all deliverables to the Arizona Department of Water Resources, one to the Grant Contract Officer and one to the Technical Administrator. All deliverables shall be identified with the Grant Contract Number.

E. PAYMENT:

1. Payments by the Commission shall be made on a quarterly basis after receipt and approval of applicable payment requests. The Commission shall retain ten percent of each quarterly payment request until all work is delivered,

ARIZONA WATER PROTECTION FUND
SCOPE OF SERVICES

accepted and approved as complete by the Commission. When all work is approved, the retention will be released for payment.

2. ~~All payments shall be made on a reimbursable basis.~~ *See amendment*
3. Upon receipt of a payment request, the Commission shall have 30 days to approve and pay the payment request. If the Commission is unable to approve the payment request during this period of time, the Commission shall provide the Grantee a reasonable period of time to correct problems associated with the payment request.
4. ~~Upon approval of a payment request, the Commission shall reimburse the Grantee for all work which has been invoiced.~~ *See amendment*

F. SCOPE OF WORK:

Task 1: Permittee Consultation

The Grantee shall consult with affected permittees and owners of grazing permits throughout the project period. Topics of consultation shall include water development needs, the incorporation of grazing systems into new or existing Allotment Management Plans, maintenance agreements for project range improvements (i.e., watering facilities, fences), livestock removal dates, operation of water systems and riparian vegetation monitoring.

Deliverables: The Grantee shall provide consultation updates in quarterly progress reports and a final report, and copies of maintenance agreements and livestock removal dates when obtained.

Due Dates: Every 3 months from effective date for quarterly reports; and March 1999 for final report.

Cost: \$0

Task 2: Survey/Design Water Systems

The Grantee shall survey locations for water pumps, pipelines, storage tanks and troughs and finalize the system designs for Allotments 4010, 4016 and 4021.

Deliverable: Maps showing locations of water systems.

Due Date: July 31, 1996

Cost: \$0

Task 3: Obtain Permits and Clearances

The Grantee shall obtain all necessary permits, authorizations and clearances for the construction of the project water developments (July - September 1996). Specifically, the Grantee shall obtain authorization through the NEPA process, SHPO clearances and informal consultation with USFWS personnel and conduct a Section 7 consultation, if needed.

Deliverables: Copies of permits, clearances and authorizations

ARIZONA WATER PROTECTION FUND
SCOPE OF SERVICES

Due Date: ~~September 30, 1996~~ Dec 31, 1996

Cost: \$0

Task 4: Order Water Facility Materials/Install Facilities

Subtask 4a: Order and Receive Materials

The Grantee shall order water facility materials, such as water pumps, storage tanks and troughs and pipeline and associated supplies (July - August 1996).

Subtask 4b: Installation of Water Facilities

The Grantee shall construct solar pumps, storage tanks and install troughs and pipeline on Allotments 4010, 4016 and 4021 (October 1996 - June 1997). The Grantee shall conduct periodic inspections of work to ensure compliance with BLM and manufacture specifications.

Deliverables: (1) Copies of supplies and materials invoices; (2) Photos of completed projects in applicable quarterly reports.

Due Dates: (1) October 31, 1996; (2) December 31, 1996 and March 30, and June 30, 1997.

Cost: \$87,223

Handwritten calculations:
1090
~~87,223~~
8,22
2 1/2
21805.75
4 | 87,223
8
7
4
32

Task 5: Survey and Design Fences

The Grantee shall locate and survey fence locations, including water gaps, on allotments 4003, 4010, 4011, 4014 and 4016 with the assistance of affected permittees and landowners during August-October 1997. The Grantee design shall make use of natural barriers where practical.

The Grantee shall design the four-strand barbed wire fence and water gaps to BLM specifications (BLM Handbook 6510). The fencing shall include wildlife protection features such as a smooth wire bottom strand.

Deliverable: Maps of finalized fence locations.

Due Date: October 31, 1997

Cost: \$0

Task 6: Obtain Permits and Clearances

During November 1997 through February 1998, the Grantee shall obtain all necessary permits, authorizations and clearances for the construction of the project fences. Specifically, the Grantee shall obtain authorization through the NEPA process, SHPO clearances and informal consultation with USFWS personnel and conduct a Section 7 consultation, if needed.

Deliverables: Copies of permits, clearances and authorizations.

ARIZONA WATER PROTECTION FUND
SCOPE OF SERVICES

Due Date: February 28, 1998

Cost: \$10,000

Task 7: Order Fence Materials/Construct Fences

Subtask 7a: Order and Transport Materials

The Grantee shall order project fence materials and supplies. The Grantee shall transport these materials and supplies to worksites by truck and, when necessary, by helicopter (March - May 1998).

Subtask 7b: Construct Fences

The Grantee shall construct the fences during September 1998 through February 1999. The Grantee shall conduct periodic inspections of the construction work to ensure compliance with BLM specifications.

Deliverables: (1) Copies of fence supplies and materials invoices; (2) photographs of completed fence sections with applicable progress reports

Due Dates: (1) April 30, 1998; (2) September 30 and December 31, 1998 progress reports and March 30, 1999 final report.

Cost: \$60,000

Task 8: Monitoring

The Grantee shall perform a functioning condition assessment using a BLM interdisciplinary team (see example assessment form attached to project proposal). The team shall consist of a vegetation specialist, hydrologist, wildlife biologist and a soil scientist. The team shall: (1) Conduct a rod and level survey on 13 established stream cross sections; (2) Take photographs upstream, downstream and cross channel at permanent photo points established at the 13 cross sections and (3) Measure total ground cover, species frequency, tree height and age density.

The Grantee shall collect baseline data during June through October 1998. With the exception of photographic data, the Grantee shall conduct functioning condition assessments on an annual basis for the following three years through 2002 and then every third year thereafter. The Grantee shall continue to collect photographic data on an annual basis.

The Grantee shall obtain daily streamflow data and quarterly water quality data from the USGS on an annual basis for the USGS stream gaging station (#9448500) located near Solomonville on the Gila River. The Grantee shall analyze this data on an annual basis through 2002 to determine changes in sediment load and fecal coliform concentrations.

The Grantee shall provide data summaries regarding the baseline monitoring data in the applicable progress reports. The Grantee shall make data collected and analyzed following completion of the funded project period available for review at BLM's Safford District Office.

Deliverable: Summarized baseline data and photographs in applicable progress reports and final report

Due Dates: September 30 and December 31, 1998 for progress reports; March 30, 1999 for final report

ARIZONA WATER PROTECTION FUND
SCOPE OF SERVICES

Cost: \$0

Task 9: Quarterly and Final Reports

The Grantee shall provide quarterly progress reports to the Commission each September, December, March and June through the funded project period. The reports will provide updates of project activities that have occurred following the previous progress report period. These activities, when they occur, shall include: (1) project design and maps; (2) permits and authorizations; (3) securing materials and contracted labor; (4) construction of range improvements; (5) permittee and landowner consultations, including livestock removal dates and maintenance agreements; and (6) monitoring activities, data summaries and photographs.

The progress reports shall begin in September 1996 and end December 1998. The Grantee shall submit a final report will be submitted to the Commission in March 1999. This report shall include a final update on the project.

Deliverable: Quarterly progress reports; final report

Due Dates: September 30 and December 31, 1996, 1997 and 1998; and March 31 and June 30 1997 and 1998 for quarterly progress reports; March 1999 for final report.

Cost: \$0

LEGAL DETERMINATION

The foregoing Agreement has been submitted to the Legal Division of the Arizona Department of Water Resources. The undersigned Deputy Counsel has determined that said Agreement is in proper form and is within the powers and authority granted under the laws of the State of Arizona to the Arizona Department of Water Resources.

Dated this 2nd day of July, 1996

Arizona Department of Water Resources
Michael J. Pearce, Chief Counsel

By: Howard Kopp
Howard Kopp
Deputy Counsel

**Arizona Water Protection Fund Program
Grant Contract Payment Request Form**

To: **Contracting Section**

Date: August 28, 1998

USAS No.: 395014

Vendor No.: _____

Grantee: BLM Safford

Tax I.D. No.: XXXXXXXXXX

Grant Contract No.: 95-014WPF

Index No.: 61002

This payment request is for task work that was conducted for the above Contract during the period starting (date) 04/04/98 and ending (date) 06/30/98. When due, deliverables associated with this work have been received, reviewed and found to meet all the requirements set forth in the contract.

It is requested that a payment in the amount of \$ 8,599.09 be made to the Grantee as required by the Contract. The specific tasks and dollar amounts associated with this request are as follows:

<u>Tasks</u>	<u>Dollars</u>	<u>(\$ less 10%)</u>	<u>Total</u>
7(b)	\$9,554.55	\$955.46	\$8,599.09
			\$8,599.09

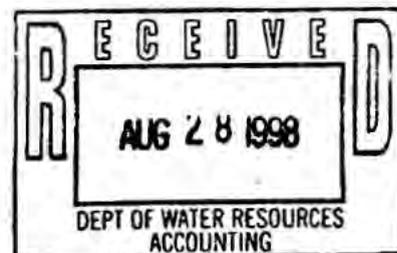
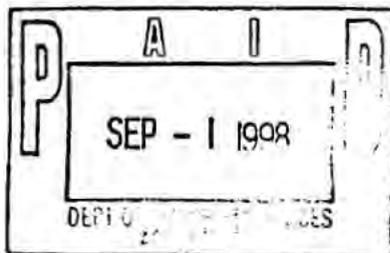
As directed by AWPf policy, 10% of the payment request has been deducted and will be withheld until the submittal and approval of the final contract deliverable. The due date for this payment is September 4, 1998.

I have examined this claim and certify that the expenditure is for a valid public purpose and that funds have been appropriated or are otherwise available for payment of this claim, and that if the available funds are from federal grant contract or source, this claim is allowable under the terms of such grant, contract or source, and payment of the amount claimed is hereby approved.


Signature of Project Manager

Partial Payment Final Payment

H:\WFFPAYMENT\95-014.4



Arizona Water Protection Fund

*Submitted with
8/17/98 report*

GRANT PAYMENT REQUEST

1. Participant: U.S.D.I., BLM Safford	2. Grant No.: 95-014 WPF	3. Type of Payment <input type="checkbox"/> 100% <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL <input checked="" type="checkbox"/> REIMBURSEMENT * <input type="checkbox"/> ADVANCE	4. Payment Request No.: 5
5. Federal Employer I.D. #: XXXXXXXXXX	6. Participant Mailing Address and Telephone #: 711 14th Avenue, Safford, AZ 85546 Phone # (520) 348-4400		7. Project Period: 07-08-96 Through 03-31-99
9. Project Title: Gila Box Riparian and Water Quality Improvement		8. Grant Award: \$ 157,223.00	
10. Period Covered (Month, Day Year) by this Request: From: 04-01-98 To: 06-30-98			
11. APPROVED PROJECT SCOPE ITEMS 7b: Construct Fence	Prior Payments	This Request	Total to Date
	\$ 66,079.93	\$ 9,554.55	\$ 75,634.48
		<i>-10%</i>	
		<i>955.46</i>	
Totals	\$ 66,079.93	\$ 9,554.55	\$ 75,634.48
* If payment request is reimbursement, Expenditure Record must be attached.		<i>8599.09</i>	
CERTIFICATION			
I certify that this request is correct and just and is based upon actual commitments / obligations of the Grantee; that payment from the State has not yet been made or received; that the work and services are in accordance with the project as approved, including amendments thereto; and that progress of the work and services under the project is acceptable and is consistent with the amount requested.			
Signature: _____		Date: _____	
LEAVE BLANK - TO BE COMPLETED BY ARIZONA WATER PROTECTION FUND			
I have examined this claim and certify that the expenditure is for a valid public purpose and that the funds have been appropriated or are otherwise available for payment of this claim and payment of the amount claimed is hereby approved.			
Program Manager Approval	Date	Contract Officer Approval	Date

INSTRUCTIONS FOR COMPLETING THE GRANT PAYMENT REQUEST

- Item 1:** Enter the name of the Grantee.
- Item 2:** Enter the grant number as shown on the grant contract.
- Item 3:** Mark the appropriate box(s).
- Item 4:** Indicate the payment number. Payments are numbered consecutively beginning with #1. Denote the final payment by the payment number, a dash, and then the letter "F" (Example 4-F).
- Item 5:** Enter Grantee's Federal Employer I.D. #.
- Item 6:** Enter Grantee's complete mailing address, including the zip code, and telephone number.
- Item 7:** Enter the project period as specified on the grant contract.
- Item 8:** Enter the amount of the grant award (AWPF monies only).
- Item 9:** Enter the project title as specified in the grant contract.
- Item 10:** Enter the month, day, and year for the beginning and ending of the period for which this request is being prepared. The dates inserted must fall within the grant contract term indicated in the grant contract.
- Item 11:** On the lines provided, list each approved project scope item as it appears in Section G, Scope of Services to the grant contract.
- Certification:** The individual authorized by the Grantee's application shall sign and date the request.

Please do not make entries in the block at the bottom of the form...this area is to be completed by AWPF staff only. Ten (10) percent is withheld from each quarterly payment request pending project completion and acceptance, including all administrative requirements.

San Francisco River Gap Fencing Project

Materials used

Steel T-Posts (5 1/2 Feet)	1000 @ \$2.15	\$2150.00
Fence Stays	1500 @ \$0.26	\$390.00
Rolls of Barbed Wire	29 @ \$28.50	\$826.50
Rolls of Smooth Wire	13 @ \$31.00	\$403.00
Custom Fence Braces	120 @ \$4.53	\$507.60
14 Foot Cattle Guard	2 @ \$1446.00	\$2892.00
Cement/Miscellaneous Supplies		\$83.13
<hr/>		
Total		\$7252.23

Eagle Creek Gap

Materials used

Steel T-Posts (5 1/2 Feet)	115 @ \$2.15	\$247.25
Fence Stays	300 @ \$0.26	\$78.00
Rolls of Barbed Wire	6 @ \$28.50	\$171.00
Rolls of Smooth Wire	4 @ \$31.00	\$124.00
Custom Fence Braces	14 @ \$4.53	\$63.42
Helicopter Cost		\$1294.38
Miscellaneous Tools and Supplies		\$81.85
<hr/>		
Total		\$2059.90

ORDER FOR SUPPLIES OR SERVICES

PAGE 1 OF 1 PAGES

IMPORTANT: Mark all packages and papers with contract and/or order numbers.

1. DATE OF ORDER: 08/01/97
 2. CONTRACT NO. (If any): ODAF MARKET
 3. ORDER NO.: 1422A040P070122
 4. REQUISITION/REFERENCE NO.: AZ040-R17-0279

5. ISSUING OFFICE (Address correspondence to): Bureau of Land Management, 711 14th Avenue, Safford, Arizona 85546, (520) 348-4400
 6. SHIP TO: (Consignee and address, ZIP Code): Same as Block 5
 SHIP VIA: Best Method

7. TO: CONTRACTOR (Name, address and ZIP Code): El Brock Water Systems, P.O. Box 50, Animas, New Mexico 88020, (505) 540-2429
 8. TYPE OF ORDER: A. PURCHASE - Reference your Quote Melody/Trisha/Edward
 Please furnish the following on the terms and conditions specified on both sides of this order and on the attached sheets, if any, including delivery as indicated. This purchase is negotiated under authority of:
 B. DELIVERY - Except for billing instructions on the reverse, this delivery order is subject to instructions contained on this side only of this form and is issued subject to the terms and conditions of the above-numbered contract.

9. ACCOUNTING AND APPROPRIATION DATA: Personal Identifying Information
 10. REQUISITIONING OFFICE: CID 37044/West

11. BUSINESS CLASSIFICATION (Check appropriate box(es)):
 SMALL OTHER THAN SMALL DIS-ADVANTAGED WOMEN-OWNED

12. F.O.B. POINT: Origin
 13. PLACE OF INSPECTION AND ACCEPTANCE: Destination
 14. GOVERNMENT B/L NO.: N/A
 15. DELIVER TO F.O.B. POINT ON OR BEFORE (Date): 2-3 weeks ARO
 16. DISCOUNT TERMS: Net 30 days

17. SCHEDULE (See reverse for Rejections)

ITEM NO. (A)	SUPPLIES OR SERVICES (B)	QUANTITY ORDERED (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)	QUANTITY ACCEPTED (G)
1.	5 1/2' steel t-post	1025	Ea	2.15	3,923.75	
2.	36" stays	5400	Ea	0.26	1,404.00	
3.	6 1/2' large wood posts, 6" top	322	Ea	3.00	1,098.00	
4.	6 1/2" small wood posts, 4" top	52	Ea	6.00	312.00	
5.	Barb wire, 2-bard	84	Roll	28.50	2,394.00	
6.	Barbless wire	28	Roll	31.00	968.00	
	Ship prepaid and add shipping charges as a separate item on invoice. If charges exceed \$25.00 please submit copy of paid freight receipt.	1	Ea	75.00	75.00	

18. SHIPPING POINT
 19. GROSS SHIPPING WEIGHT
 20. INVOICE NO.
 17(H). TOT. (Cont. pages)
 21. MAIL INVOICE TO: (Include ZIP Code): Same as Block 5
 10,074.75
 17(I). GRAND TOTAL

22. UNITED STATES OF AMERICA BY (Signature): [Signature]
 23. NAME (Typed): Anna Louisa Othon 26 AZ
 TITLE: CONTRACTING/ORDERING OFFICER

HELICOPTER DAILY USE AND COST SUMMARY

(Submit To Helibase Manager At End Of Each Day's Operations)

HELIBASE: _____ DATE: 0130198 HELICOPTER N #: H-318
 MAKE/MODEL: 407 Bell MANAGER'S NAME: Alex Stone
 TYPE: 1 2 3 CWN CONTRACT OTHER (Specify): _____

FLIGHT INVOICE REFERENCE NUMBER(S): _____

FLIGHT TIME (HRS)	x	HOURLY RATE		COSTS:
2.2		516 ⁰⁰		= TOTAL FT COST: \$ 1135. ²⁰
AVAIL (HRS or DAY) *	x	HRLY OR DAILY RATE		+ = TOTAL AV COST: \$ N/A.
N/A				
EXTENDED PILOT STANDBY	x	HOURLY RATE		+ = TOTAL EP COST: \$ 64. ⁰⁰
2		32 ⁰⁰		
EXT. DRIVER STANDBY	x	HOURLY RATE		+ = TOTAL ET COST: \$ - .
N/A				
EXT. MECHANIC STANDBY	x	HOURLY RATE		+ = TOTAL EM COST: \$ - .
N/A				
# OF CREWMEMBERS	x	over time hazard		+ = TOTAL FS COST: \$ 95. ¹⁸
2				
SERVICE TRUCK MILES	x	RATE/MILE		+ = TOTAL SM COST: \$ - .
N/A				
GALLONS FOAM CONCENTRATE USED	x	COST/GALLON		+ = TOT FOAM COST: \$ - .
GALLONS RETARDANT USED	x	COST/GALLON		+ = TOT RET. COST: \$ - .
SPECIAL EQUIPMENT (Radio, FLIR, Longline/Remote Hook, Agency-Supplied Fuel, etc.)				= TOTAL SPECIAL COST: \$.
				TODAY'S TOTAL COSTS: \$ 1294. ³⁸

USE:

TOTAL PASSENGERS TRANSPORTED	TOTAL LBS CARGO DELIVERED	TOTAL GALLONS WATER	TOTAL GALLONS RETARDANT	TOTAL GALLONS FOAM

COMMENTS: *Additional costs: Personal overtime and hazard charges \$95.18*

**Arizona Water Protection Fund
DETAILED EXPENDITURE RECORD**

Grant Number: 95-014 WPF
 Project Name: Gila Box Riparian and Water Quality Improvement
 Grantee Name: BLM
 Attached to Pay Request #: 5

Record Preparation
 Date: 07-15-98
 By: Tim Goodman
 Tele #: (520) 348-4425

DATE	INVOICE NUMBER	VENDOR	ITEM DESCRIPTION/HOW USED	AMOUNT PAID OR DONATED	CHECK NUMBER
01-01-98 06-30-98		BLM - Templin	Contract Preparation and Project Inspection	\$14,285.31	Donated
01-01-98 06-30-98		BLM - Luster	Project Preparation and Project Inspection	\$1,560.86	Donated
01-01-98 06-30-98		BLM - Millhorn	Contract Preparation	\$1,099.65	Donated
01-01-98 06-30-98		BLM - Goodman	Grant Administration	\$2,450.35	Donated
01-01-98 06-30-98		BLM - Draper	Contract Preparation	\$1,909.62	Donated
06-22-98		Dave Bruton	Contractor - Fence Installation	\$14,994.83	Donated
06-22-98		BLM from El Brock	San Francisco Gap Fencing Materials	\$3,769.50	AZ-040 RQ7-0279
06-22-98		BLM Inventory	Two 14 foot Cattle Guards	\$2,892.00	N/A
06-22-98		Various	Custom Brases/Miscellaneous Supplies/Cement	\$833.15	VISA Card Purchase
06-30-98		BLM from El Brock	Eagle Creek Water Gap Fence Materials	\$620.25	AZ-040 RQ7-0279
06-30-98		Various	Custom Braces/Miscellaneous Supplies	\$145.27	VISA Card Purchase
06-30-98		Forest Service Contract Ship	Helicopter Transport of Materials to Eagle Creek	\$1294.38	Internal Gov. Transfer

INSTRUCTIONS FOR COMPLETING THE DETAILED EXPENDITURE RECORD

A complete and accurate record of information must be provided in each column of this form for every listed expenditure. A copy of the completed Expenditure Record must be attached to each Grant Payment Request submitted to Arizona Water Protection Fund Commission. Instructions for specific entries are described below. For purposes of these instructions, the term "in-kind contributions" is used to describe the value of non-cash contributions provided by: (1) the grantee; (2) other public agencies and institutions; and (3) private organizations and individuals. In-kind contributions may consist of the value of services directly benefiting and specifically identifiable to the project. In addition, the term includes performance of work on a development project with the forces and resources of the participant, including personal services, equipment, and materials, as opposed to development by contract with an outside organization or individual.

GRANT PROJECT NUMBER - Enter the grant number as it appears on the grant contract.

PROJECT NAME - Enter the name of the project as it appears on the grant contract.

GRANTEE NAME - Enter the Grantee name as it appears on the grant contract.

PAYMENT REQUEST # - Enter the number of the pay request attached to the Expenditure Record.

RECORD PREPARATION - Enter the date the Record was prepared, by whom, and the telephone number of the preparer.

DATE - List all expenditures in chronological order and indicate the date shown on each expenditure. In situations where in-kind, or volunteer, labor performs work related to the project, the beginning and ending date on the individual's time sheet must be shown in this column. The same procedure is followed when listing contractor's monthly or periodic statements.

INVOICE NUMBER - Enter the number shown on the invoice as assigned by the vendor. In the case of a contractor's statement, enter the number of the statement as assigned by the contractor. If the value of in-kind labor and/or equipment is being claimed, enter the payroll or voucher number related to the claim. This column does not apply for volunteer labor.

VENDOR - For each invoice or cost item, provide the name of the individual or company from whom the goods or services were purchased. When listing in-kind labor or equipment, or volunteer labor, enter the name and title of each employee and/or the name of the project participant. An example would be: "John Smith - Backhoe Operator." "City of Glendale - Public Works Department."

ITEM DESCRIPTION/APPROVED SCOPE ITEM - The information entered in this column is extremely important in verifying the eligibility of each cost incurred. The ITEM DESCRIPTION should briefly, but accurately, describe exactly what was purchased. This description may be taken directly from the invoice. For example: Request for Proposal, photography, lumber, shrubs, concrete, or engineering services. If you are listing work performed by the participant's own employee's or equipment, simply describe the type of labor or type of equipment used. The APPROVED SCOPE ITEM portion refers to how the item purchased was used in the completion of a specific scope of work item identified in the participant agreement. For example, if lumber was purchased and used to construct a shelter, then the word "shelter" would be entered immediately after the word "lumber". Other examples would be: "cement finishing/walkway" and "road grader/site items, each item should be listed. When listing "employee's time" or volunteer labor as the ITEM DESCRIPTION, each item the employee/laborer worked on must be listed when the time being billed relates to more than one item. Please refer to your grant contract and project cost schedule, or contact AWP staff to insure that costs incurred are actually eligible for reimbursement. Items not shown in the grant contract or project cost schedule or in amendment thereto, are not eligible for reimbursement unless otherwise approved by AWP Commission. Ineligible project costs need not be listed on the Detailed Expenditure Record.

AMOUNT PAID OR DONATED - Enter the amount of the actual cost or expenditure which is eligible for reimbursement. If a portion of the invoice was paid and reimbursed under a previous payment request, list only the amount for which you are now seeking reimbursement. If the value of the in-kind equipment and/or donations, or volunteer labor, is being claimed, consult with AWP staff on acceptable methods for determining the allowability of the value or rates claimed.

CHECK NUMBER - List the corresponding check, work order, or requisition number which was used to pay for each cost item listed. If more than one check, work order, or requisition was used, include all appropriate numbers. Write the word "donation" for items or time which have been contributed.

Participant is responsible for retaining all project related expenditure source documents for a period of 5 years. Arizona Water Protection Fund Commission reserves the right to request copies of source documents for verification or audit proposes.

PROJECT PROGRESS REPORT
(submit at least quarterly)

Grant Funds
Expended by
the Participant: \$ 70,428.30 *

APPROVED SCOPE ITEMS **

	<u>% COMPLETE</u>
Task 1: Permitee Consultation	70
Task 2: Survey/ Design of Water System	100
Task 3: Obtain Permits and Clearances	100
Task 4a: Order and Receive Materials	100
Task 4b: Installation of Water Facility	100
Task 5: Survey and Design of Fences	100
Task 6: Obtain Permits and Clearances	100
Task 7a: Order Fence Materials	100
Task 7b: Construct Fence	100
Task 8: Monitoring	0
Task 9: Quarterly and Final Reports	60
Task 10: Survey/Design Water Systems	100
Task 11: Obtain Permits and Clearances	10
Task 12: Install Water Systems	0

OVERALL % COMPLETE

75

PROBLEMS ENCOUNTERED AND SOLUTIONS TO PROBLEMS

* Report the amount of grant funds received from AWPf which have been expended for approved scope items.
** See Section G, Scope of Services to the Grant Agreement for a listing of approved scope items.