

**ARIZONA GAME AND FISH DEPARTMENT  
HABITAT PARTNERSHIP PROGRAM  
HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**

<b>PROJECT INFORMATION</b>	
<b>Project Title:</b> Five-mile Water Catchment	<b>Project No.</b> 09-108
<b>Region/GMU:</b> Region 1/ GMU 3A	<b>HPC:</b> Show Low
<b>Project Type:</b> Construction of a new water catchment	
<b>Project Description:</b> Construction of wildlife water catchment to improve perennial water distribution in northwestern GMU 3A.	
<b>Wildlife Species to Benefit:</b> Pronghorn and Deer	
<b>Possible Funding Partners:</b>	
<b>Implementation Schedule:</b> Beginning: Spring 2010 Completed: Spring 2011	<b>NEPA Compliance: (if applicable)</b> Completed: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Projected Completion Date:
<b>PROJECT FUNDING</b>	
<b>SBG Funds Requested:</b> \$44,760.04	
<b>Cost Share Funds:</b> \$36,700.00	
<b>Total Project Costs:</b> \$81,460.04	
<b>PARTICIPANT INFORMATION</b>	
<b>Applicant:</b> Paul Greer (please print) <b>Telephone:</b> (928) 536-3668	<b>Address:</b> 2878 E. White Mountain Blvd. Pinetop, AZ 85935
<b>AGFD Contact and Phone No.</b> (If applicant is not AGFD personnel)	
<b>Coordinated with:</b> BLM Safford District and AZGFD Development	<b>Date:</b> February, 2007 thru August, 2009
<b>Applicant's signature:</b>	<b>Date:</b>

**SEND COMPLETED APPLICATIONS TO:**  
AZ Game and Fish Department  
Attn: Game Branch  
5000 W. Carefree Highway  
Phoenix, AZ 85086  
[rgregory@azgfd.gov](mailto:rgregory@azgfd.gov)

**WAS PROJECT PRESENTED TO THE LOCAL HPC?** YES  X  NO \_\_\_\_\_

**HAS PROJECT BEEN SUBMITTED IN PREVIOUS YEARS? IF SO WAS IT FUNDED?**

This project was submitted last year as part of a multi-phased water distribution enhancement project in western GMU 3A and was not funded.

**NEED STATEMENT/PROBLEM ANALYSIS:**

The northwest portion of Game Management Unit 3A which lies north of the Pink Cliffs between State Route 77 and SR 377 provides habitat for pronghorn and mule deer. One of the key limiting factors for pronghorn in this area is lack of perennial water. Both a statewide evaluation of pronghorn habitat in Arizona (Ockenfels et al. 1996) and the GMU 3A District Habitat Plan recognize the lack of perennial water sources in this portion of the Unit. Currently, in the approximate 77,000 acres that lie in the northwestern portion of GMU 3A, there is only one perennial water source, AZGF Catchment #1023, that is managed for wildlife. Unfortunately, Catchment #1023 is no longer functional and has been recommended by the AZGF Development Branch for renovation. Several pronghorn herds are periodically observed in the BLM section where the new water catchment would be located. A perennial water source in this area will allow pronghorn to occupy the area year round as well as create opportunity for a resident deer herd to establish itself further north in GMU 3A. A small mule deer herd currently exists to the south along the Pink Cliffs.

Nearly all of the water sources in the north half of GMU 3A are ephemeral. The few perennial water sources that do exist are livestock water traps that entail multiple fences and a network of gates surrounding water drinkers. These types of waters are almost exclusively avoided by pronghorn. The Department is currently working with livestock lessees in the central portion of the project area to make existing livestock waters more accessible to pronghorn. However, there is a strong need for several reliable perennial water sources managed by the Department that will be available for wildlife regardless of changes in land ownership or other variables subject to change outside of the Department's control. Establishment of well distributed year round water sources is especially critical in this portion of GMU 3A which receives the lowest amount of precipitation within the Unit.

**PROJECT OBJECTIVES:**

The long term goal is to create three perennial wildlife waters in the northwestern portion of Unit 3A to address the need for year round water distribution in this area. Two of these waters will be new developments on land owned by the USDOJ Bureau of Land Management and the third will entail renovation of an existing AZGF catchment in the project area. HPC grants to fund construction of the Five-mile catchment and renovation of Catchment #1023 will be submitted this year. Funding for the second new water catchment will be sought in 2010.

**PROJECT STRATEGIES:**

- Install two 3' x18' buried fiberglass ring tanks (11,500 gal) and a 24'x72' R-panel apron.
- Plumb a 3' deep fiberglass walk-in drinker.
- Erect a 300' by 300' wildlife friendly pipe rail fence.
- Install an evaporative cover to allow minimum evaporation
- Provide a relatively maintenance free perennial water source that have a sufficient water storage capacity to withstand several years of use in the event of a dry year in which the development catches very little or no water.

**PROJECT LOCATION:**

T. 16N, R. 20E. Section 24. See attached maps. Land ownership for this project is BLM.

- The site for the Five-mile catchment is northwestern GMU 3A approximately 9 miles south of Holbrook.
- New catchment site is marked on the map with a yellow triangle and labeled as FIVEMILE.
- The nearest perennial water is 6 miles to the southwest. This water source is a livestock drinker in the middle of a fence line that is subject to being turned off during the course of the year.
- The Flake Windmill located just north of the Five-mile catchment site is an old livestock water trap.
- The nearest perennial wildlife water is Catchment #1023 which is over 9.5 miles to the southeast.

**LAND OWNERSHIP AT PROJECT SITE (Please state specifically if PRIVATE PROPERTY and provide landowner’s name):**

USDOI Bureau of Land Management, Safford Field Office

**IF PRIVATE PROPERTY, IS THERE A STEWARDSHIP AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?**

N/A

**HABITAT DESCRIPTION:**

The project area is predominately Great Basin grassland with a component of junipers primarily in the southern portion of the area as well as on the hills and buttes and along draws that transect the area. Dominant grasses include blue grama, ricegrass, alkali-sacaton, galleta, and dropseed. The shrub component becomes increasingly prevalent to the north and includes fourwing saltbush, sagebrush, snakeweed, winterfat and various ephedras. Elevations in the project area range from 5,200 ft in the north end to 6,100 ft in the south end.

**ITEMIZED USE OF FUNDS:**

**Materials Needed For Catchment:**

Quantity	Item	Price
2	3’x18’ fiberglass ring tanks	\$19,842.24
1	Elk trough	\$ 3,268.32
1	24’x96’ apron	\$ 6,500.00
1	24’ fiberglass gutter	\$ 733.92
1	Apron infrastructure	\$ 1,000.00
1	300’ X 300’ piperail fence	\$ 6,400.00
1	Fencing for apron	\$ 3,200.00
1	Plumbing	\$ 500.00

**Catchment Costs:**

**Sub-total** = \$41,444.48  
**Tax** = \$3,315.56  
**Total** = \$44,760.04

**Contracted Labor Cost** = \$20,000.00

**Arizona Game & Fish:**

Environmental compliance work = \$16,700.00 (COMPLETE)

Development Branch (Cost Share) = \$20,000.00

(Joe Currie has advised that the Development Branch will be able to contribute \$20,000 in cost share to cover contract labor costs to build this catchment and/or renovation of Catchment #1023 if they are funded together or in conjunction with the West Cottonwood Guzzler in GMU 3C (grant submitted this year by Paul Greer) as significant savings will be available by contracting out simultaneous projects in close proximity.)

**Total Cost = \$81,460.04**

**Total Cost Share = \$36,700.00**

**LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:**

- Arizona Game and Fish will coordinate and contract the construction of this project
- USDOI Bureau of Land Management/ Environmental Compliance

**PROJECT MONITORING PLAN:**

Arizona Game and Fish conducts wildlife surveys for antelope and records deer observations in the project area. The Department will continue to do these surveys and analyze the data with respects to this project.

**PROJECT MAINTENANCE:**

AZGF will monitor and complete all maintenance needs at this wildlife water.

**PROJECT COMPLETION REPORT TO BE FILED BY:**

Paul Greer / AZGF

**WATER DEVELOPMENT PROJECTS (see attached worksheet):**

## **ARIZONA GAME AND FISH DEPARTMENT** **WATER DEVELOPMENT WORKSHEET**

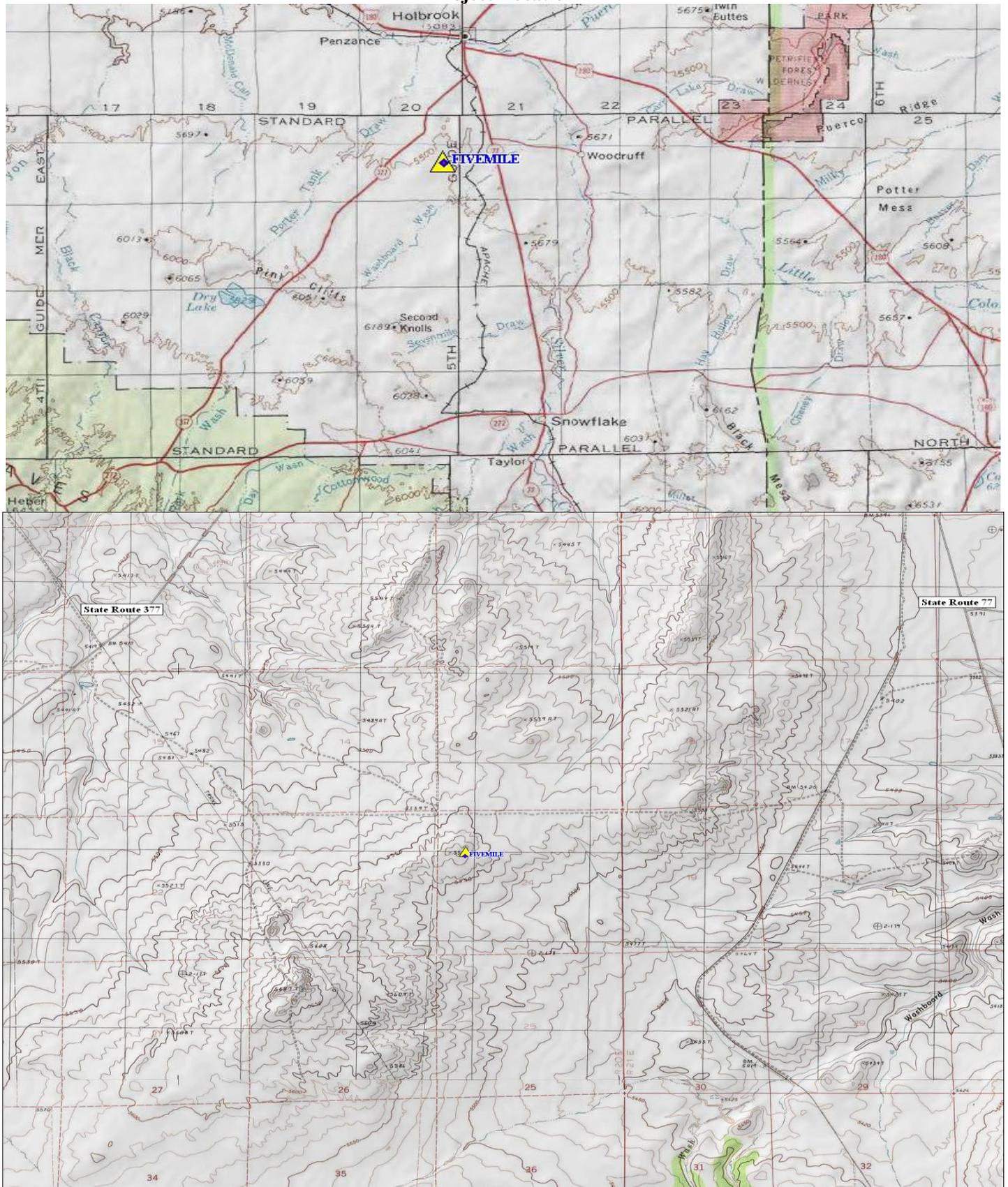
**PROJECT NAME:** Five-mile Water Catchment

- 1) **Is the water development listed as a priority in the most recent "Wildlife Water Development Annual Implementation Schedule?"**  
Yes
- 2) **Please list the Development Branch personnel and date coordinated with for this project.**  
Joe Currie 2/24/08, 4/21/08, 5/16/08, 8/26/08, 8/30/09
- 3) **What is the estimated annual inches of precipitation for the area? (mark one)**  
 2-4    4-6    6-8    8-10    10-12    12-14    14-16    >16
- 4) **Is there a perennial water source available to big game within four miles of this project?**  
 YES (please complete #5 below)    NO (skip #5 below)
- 5) **For the accessible, perennial water source nearest this project:**  
Name of water source:  
Type of water source (catchment, spring, dirt tank, etc.):  
Ownership of water source:  
Distance in miles from project:
- 6) **Is the target wildlife species a result of transplant efforts?**    YES    NO
- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument, etc). If private land, list landowner.**  
NA
- 8) **Please provide the following information about access to the proposed site:**  
Type of access (mark one):    2x4 vehicles    4x4 only    foot only\*\*  
\*\*If foot access only: Distance in miles:   Approx. hiking time:  
  
-- Does access to this site require crossing private or tribal lands?    YES    NO (private land)  
  
Please describe any restrictions to public access: None, the private land is open to public access.
- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**
- 10) **Was a site visit completed?**    Yes    No  
If Yes, please list personnel that attended and date.  
Joe Currie AZGF, Paul Greer AZGF, Tim Goodman Bureau of Land Management on 5/16/08



**Site for Five-mile Catchment in GMU 3A**

### Project Location



Map created with TOPO!® ©2003 National Geographic (www.nationalgeographic.com/topo)

Northwestern GMU 3A - Monument Hill Water Distribution Project (with 2-mile radius water coverage)

