

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

Game Branch / HPC Project Number:	11-221
Possible Funding Partners:	

**PROJECT INFORMATION**

**Project Title:** Unit 9 Water Project

**Region and Game Management Unit:** Region 2, GMU 9

**Local Habitat Partnership Committee (LHPC):**  
 • Williams/Flagstaff

**Was the project presented to the LHPC?**  
 YES  NO

**Has this project been submitted in previous years?** YES  NO

**If Yes, was it funded?** YES  NO  → **HPC Project #:**

**Project Type:** Water Development - New

**Brief Project Summary:**

Water Development in the Upper Basin in GMU 9.

**Big Game Wildlife Species to Benefit:**

The Big Game species to benefit are elk, mule deer, and pronghorn. The area has current population of all three species, and has potential of sustaining larger herds if more reliable water sources are created. By increasing water sources and spreading out the water availability the elk herd can be spread out mitigating the impact on the habitat.

**Implementation Schedule (Month/Day/Year):**

Project Start Date:  
 March 1, 2012

Project End Date:  
 April 1, 2013

**Environmental Compliance:**

NEPA Completed: YES  No  N/A

Projected Completion Date: April 1, 2012

State Historic Preservation Office - Archaeological Clearance:

YES  No  N/A

Projected Completion Date: April 1, 2012

Arizona Game and Fish Department EA Checklist: N/A

To be Completed by: \_\_\_\_\_

Projected Completion Date: \_\_\_\_\_

**PROJECT FUNDING**

**Special Big Game License Tag Funds Requested:** \$ 52,730

**Cost Share or Matching Funds:** \$ 11,200

**Total Project Costs:** \$ 63,930.00

**PARTICIPANT INFORMATION**

**Applicant (please print):**  
 Colby Walton

**Address:**  
 3500 S. Lake Mary Road  
 Flagstaff AZ 86001

**E-mail:**  
[@azgfd.](mailto:colby@azgfd.com)

**Telephone:** (928)864-9384

**Date:** 8/17/2011

**AGFD Contact and Phone No.** (If applicant is not AGFD personnel):

**Project has been coordinated with:**  
Joe Currie, AGFD Development Branch

**NEED STATEMENT – PROBLEM ANALYSIS:**

Game Management Unit 9 has no perennial streams, rivers, lakes, or springs. Natural waters consist of small ephemeral water bodies that develop in low-lying areas where seasonal runoff collects. The purpose and need of the actions are to increase the availability of more reliable and larger capacity wildlife water sources throughout Game Management Unit 9. These actions are also designed to reduce impacts to vegetation and soil resources around existing water developments by better distributing elk habitat use patterns throughout the district, and to reduce water hauling costs to wildlife water developments. In addition, the specific location of the proposed water catchment will benefit elk, pronghorn, and mule deer, and will potentially contribute to the hunting opportunity within the Unit.

**PROJECT OBJECTIVES:**

- Increase water availability
- Decreasing water hauling cost
- Distributing elk habitat use patterns throughout the district

**PROJECT DESCRIPTION AND STRATEGIES:**

AZGFD Development Branch building a gravity fed water catchment (30,000 gallon) in the identified areas. These large gravity fed catchments are buried underground, require virtually no maintenance, and due to their size require little effort in maintaining water availability. Only medium sized dump trucks with flatbed trailers carrying backhoe and bobcat are the needed heavy equipment necessary to construct the new catchments. In 2009 a similar water catchment was built. This water catchment has proven to meet all of the objectives that were set. The strategy is to attempt to replicate the project from 2009, and add another reliable water source to the area.

**PROJECT LOCATION:**

Township 29 N. Range 5 E. Section 22

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

Kaibab National Forest – Tusayan Ranger District

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

YES[] NO[]

**HABITAT DESCRIPTION:**

Mosaic of Great Basin Grassland and pinion-juniper woodland. The site is in pinion-juniper habitat mixed with sagebrush at about 6700'.

**ITEMIZED USE OF FUNDS:**

Special Big Game License Tag Funds

3 – 3’ deep X 20’ dia. Fiberglass Ring Tanks =	\$31,950 (\$10,650 each)
1 – 3’ deep X 5’ wide Fiberglass “Elk” Walk-in Trough =	\$ 3,934
1 – 24’ Fiberglass Standard Gutter =	\$ 736
1 – 24’ X 96’ Steel Frame and R-panel Apron =	\$ 7,580
1 – 150’ X 150’ Livestock Exclosure Piperail Fence =	\$ 3,390
1 – 30’ X 100’ Wildlife Exclosure Apron Fence =	\$ 3,390
1 – 3” Sch. 80 PVC Plumbing Package =	\$ 750
1 – Miscellaneous Materials =	\$ 1,000
<b>Total =</b>	<b>\$52,730</b>

Cost Share or Matching Funds

AZGFD Development crew will complete the installation of the project. Ed Jahrke estimated that \$10,000 in kind labor cost match. In addition, Wildlife Manager Colby Walton has dedicated 10 days to project development, field trips, coordination, and finalization, which is matching in kind labor of \$1,200.00.

Labor = \$10,000 + \$1,200 from AGFD Wildlife Manager

**Total = 11,200**

*Currently in discussion with Rocky Mountain Elk Foundation, Arizona Deer Association, and Arizona Elk Society regarding funding and volunteer labor for the project.*

**LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:**

The USFS Tusayan Ranger District is cooperating in this effort with AZGFD to build water catchment. AZGFD would seek funding through the AZGFD HPC process and other grant funding opportunities. All future maintenance and repair of the newly constructed catchments will become the responsibility of the AZGFD.

**PROJECT MONITORING PLAN:**

Department personnel will monitor the water levels in the catchments, amount of use by wildlife, maintenance needs and report to the Department’s development branch if any maintenance needs arise or if water needs to be hauled. The Unit Wildlife Manager will be the primary person responsible for monitoring.

**PROJECT MAINTENANCE:**

The Department’s Development Branch will be responsible for ensuring maintenance is done. This may be accomplished by Department personnel, contractors or by volunteers.

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

Wildlife Manager: Colby Walton

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

**TREE SHEARING (AGRA-AXE, PUSH) PROJECTS** (*see attached worksheet*):

N/A

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

**PROJECT NAME:** Unit 9 Water Project

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 coordinated in June of 2011 and Ed Jahrke in August of 2011.

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: Brushy Trick Tank

Type of water source (catchment, spring, dirt tank): catchment

Ownership of water source: US Forest Service

Distance in miles from project: 4 miles

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). If private land, list landowner.**

National Forest-Tusayan Ranger District

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: \_\_\_\_\_ Approximate hiking time: \_\_\_\_\_

-- Does access to this site require crossing private or tribal lands? YES NO

-- Please describe any restrictions to public access:

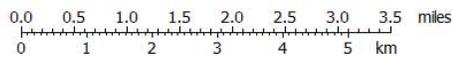
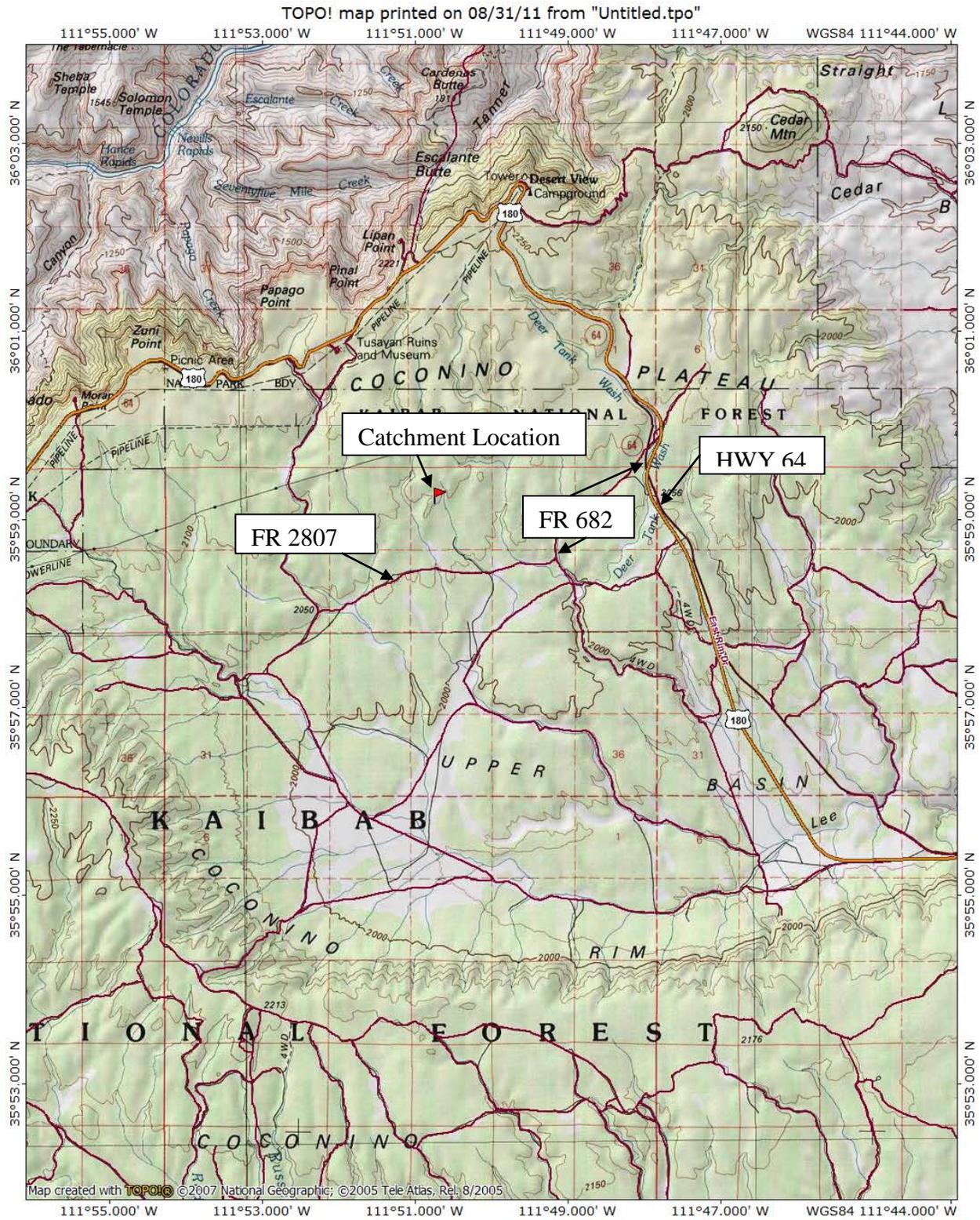
**9) Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**

3 – 3’ deep X 20’ dia. Fiberglass Ring Tanks =	\$31,950.00 (\$ 10,650.00 each)
1 – 3’ deep X 5’ wide Fiberglass “Elk” Walk-in Trough =	\$ 3,934.00
1 – 24’ Fiberglass Standard Gutter =	\$ 736.00
1 – 24’ X 96’ Steel Frame and R-panel Apron =	\$ 7,580.00
1 – 150’ X 150’ Livestock Exclosure Piperail Fence =	\$ 3,390.00
1 – 30’ X 100’ Wildlife Exclosure Apron Fence =	\$ 3,390.00
1 – 3” Sch. 80 PVC Plumbing Package =	\$ 750.00
1 – Miscellaneous Materials =	\$1,000.00
AGFD Labor =	\$10,000.00
<u>AGFD Wildlife Manger=</u>	<u>\$ 1,200.00</u>
<b>TOTAL =</b>	<b>\$63,930.00</b>

**10) Was a site visit completed? Yes[X] No[]**

If Yes, please list personnel that attended and date.

A site visit is scheduled with Joe Currie.



TN\* MN  
11 1/2°  
08/31/11

