

# INSTRUCTIONS FOR COMPLETING HABITAT PARTNERSHIP PROGRAM HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROJECT PROPOSAL FORMS

*(To increase your chances of funding, please read and follow these instructions!)*

All habitat enhancement and wildlife management project proposals should be submitted to the Game Branch on "Project Proposal" forms by **September 1**.

## PROJECT INFORMATION

Project Title – A brief title describing the project. Include local names in title rather than generic terms.

Project Number: - A project administration number to be assigned by the Game Branch.

Project Type - Examples: Water development, mechanical thinning, prescribed burn, revegetation, predator control, transplant, etc. If more than one project type, list components.

Project Description – A brief description of the enhancement project.

Wildlife Species to Benefit – List big game species targeted and how they will benefit from the project.

Possible Funding Partners – DO NOT fill in. The Game Branch will list what organization(s) the proposal will be sent to.

Implementation Schedule - List month and year when project is expected to be initiated and completed.

## PROJECT FUNDING

Special Big Game (SBG) Funds Requested - List amount of SBG funds requested. For multi-year funding requests, show annual amounts and grand total.

Cost Share Funds – List total of cost share funding to be included. List detailed description of cost share funding in the Itemized Use of Funds section of the proposal. List all matching funds and their source. In-kind, volunteer labor, hunter access all count. ORIGINAL COST OF EXISTING PROJECT DOES NOT QUALIFY AS MATCH!

Total Project Cost – Total of SBG funds and all matching/ partner funds.

## PARTICIPANT INFORMATION

Applicant - Identify the specific contact person (the person most familiar with the project). Include address and telephone number. This individual must be authorized by his or her agency to receive and administer project money. **If a private individual, a Stewardship Agreement with the Arizona Game and Fish Department will be required.**

AGFD Contact – If the applicant is not AGFD personnel, the proposal should be coordinated with a representative of the AGFD.

Coordinated with - List land management agency personal, and /or private landowner consulted with when developing the proposal. The expectation is that coordination with other agencies occurs prior to project proposal submission.

Applicant's Signature – Applications may be submitted electronically to save time, however, a signed original must be sent to the Game Branch (address on application). Proposals must be signed by the agency or individual that will be responsible for completing the project and administering the funds.

## **DETAILED PROJECT INFORMATION**

Need Statement/ Problem Analysis - What resource problems will be addressed by this project? What are the anticipated benefits to the wildlife resource?

Project Objective - List specific objectives. Examples:

- a) Improve water availability for antelope-elk-mule deer on critical winter range.
- b) Improve forage quality and quantity on mule deer winter range.
- c) Improve antelope fawn survival.
- d) Establish bighorn sheep into unoccupied sheep habitat.

Project Strategies - List specific actions that will be taken to achieve the project objective. Examples:

- a) Deepen and seal existing dirt tank with bentonite to improve water holding capability.
- b) Use agra axe to thin junipers on 500 acres of winter range.
- c) Remove coyotes from antelope fawning areas prior to fawn drop.
- d) Transplant 25 bighorn sheep.

Project Location – Provide legal description (township, range, section). It is advisable to attach a map with project site clearly marked. Include size, in acres, of habitat enhancement project, and land ownership at project site.

Land Ownership at Project Site – Very important! List landowner's name if private property. Private property projects require a Stewardship agreement and may also be eligible to receive funding from the Landowner Incentive Program.

Habitat Description – What are the major vegetative types and associations? Include average elevation.

Itemized Use of Funds – Important! Identify specifically how SBG funds will be used (helicopter \$5,000; Agra-Axe \$15,000; guzzler \$2,500; etc.). Also include itemized break down of cost share funding. Who will request payment, for what amounts, and for which project components? It is advisable to consult with possible vendors for accurate estimates of project costs.

List Cooperators and Describe Potential Participation – List cooperators who may provide materials, equipment, or labor.

Project Monitoring Plan - Identify what monitoring program exists or will be implemented to assess and quantify the results achieved by the project. Include both short term and long term monitoring.

Project Maintenance – If needed, who will provide maintenance for this project?

Project Completion Report to be Filed By – Who is responsible for the submitting the Project Completion Report?

Water Development Projects- Water Development Worksheet is to be completed and included only with water projects. List individual in Development Branch through which this project has been coordinated. **Water development projects must be coordinated with Joe Currie (602) 789-3867 or Ed Jahrke (602) 789-3482 prior to proposal submission.**

Tree Shear (Agra-axe) Projects – Costs vary from site to site. Terrain features such as excessive slope or rockiness will influence the overall cost. There are four vendors currently on contract and they are typically willing to visit the site and assist in determining cost.

## **REPORTING PROCEDURE**

A Project Completion Report must be submitted within 30 days of project completion. This is a requirement for all funded projects. As applicable, photos or other graphic material may be requested.

Projects approved for funding, on which no action has been taken within 24 months of funding approval must be closed out and resubmitted, if desired. It is not necessary to complete the project within 24 months, however, any projects should at least be

started within 24 months. A status report for all funded projects is due by August 31 of the year following funding approval. This step facilitates reporting to the funding partners.

**PROCEDURE FOR SUBMITTING PROPOSALS**

Proposals should be submitted to the Game Branch on or before September 1. Electronic copies are preferred with a signed hard copy sent via mail. For additional information contact:

Arizona Game and Fish Department, Game Branch  
2222 W. Greenway Road  
Phoenix, Az. 85023  
(602) 789-3352  
Fax (602) 789-3929  
E-mail: rothompson@azgfd.gov

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

**PROJECT INFORMATION**

<b>Project Title: Catchment #106 Redevelopment – Owl’s Head #8</b>		<b>Project No.</b>
<b>Region/GMU: 5/37B</b>	<b>HPC: Tucson</b>	
<b>Project Type: Catchment Redevelopment</b>		
<p><b>Project Description:</b>                  This project will be the relocation and complete redevelopment of wildlife water catchment #106. The existing concrete vault system, which was constructed in 1949, is well beyond the end of its time and is located approximately 0.1 mile from Highway 79. The lid for the storage vault has crumbled leaving it completely open and empty. Also, the existing system capacity is only 1700 gallons making it a likely candidate for water hauling if simply repaired. A new 10,500 gallon 24” PVC pipe storage tanks with a 24’x96’ R panel apron system relocated approximately 1.7 miles east and will provide permanent water while minimizing potential vehicle incidents with wildlife. Catchment 106 was listed as a “first priority” catchment for redevelopment in the Wildlife Water Development Team Report dated 2002. It is currently ranked #1 on our regional priority list. Volunteers from the Arizona Deer Association, Mule Deer Foundation, 123 Go..., and local sportsmen solicited through Coues Whitetail.com will work on the project. Minimal oversight will be required from Development Branch.</p>		
<b>Wildlife Species to Benefit:</b> mule deer, javelina, small game and nongame		
<b>Possible Funding Partners:</b>		
<p><b>Implementation Schedule:</b>  <b>Beginning:</b> September 1, 2008  <b>Completed:</b> June 30, 2010</p>		

**PROJECT FUNDING**

<b>SBG Funds Requested:</b>	<b>\$34,245</b>
<b>Cost Share Funds:</b>	<b>\$20,000</b>
<b>Total Project Costs:</b>	<b>\$54,245</b>

**PARTICIPANT INFORMATION**

<b>Applicant:</b> Ben Brochu	<b>Address:</b> Arizona Game and Fish Department 555 N. Greasewood Road Tucson, AZ 85745
<b>Telephone:</b> Office (520) 229-3222	
<b>AGFD Contact and Phone No.</b> (If applicant is not AGFD personnel)	
<b>Coordinated with:</b> AGFD – Joe Currie, ASLD – John Patton and Rachel McGee	<b>Date:</b> 2-5,7,26-07, 8-6 and 23-07, 8-28-08, 9-11-08

<b>Applicant's signature:</b>	<b>Date:</b>
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**SEND COMPLETED APPLICATIONS TO:**

**Game Branch  
2221 W. Greenway Rd.  
Phoenix, AZ 85023  
mdisney@azgfd.gov**

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

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

A proposal for catchment 106 was submitted March 1, 2007. It was not funded. Also, a multi-phased proposal was submitted in September of 2007. It was not funded due to the locations of the catchments in relation to Highway 79.

**NEED STATEMENT/PROBLEM ANALYSIS:**

Game management unit 37B was once regarded as a premier mule deer unit. Beginning around 1995, mule deer numbers in the unit began to decline. They have not recovered since.

Mule deer numbers and distribution have been declining throughout the West since the latter third of the 20<sup>th</sup> century. To address this concern, the Western Association of Fish and Wildlife Agencies (WAFWA), an organization represented by 17 states and four Canadian provinces, created a Mule Deer Working Group (Group). Using adaptive resource management, the Group sent out to find “solutions to our common mule deer management problems” in the seven different ecoregions in North America. Overall, loss and degradation of habitat was determined to be the single greatest factor that has caused declines in mule deer. In the Southwest Desert Ecoregion, rainfall and competition with livestock were found to be the two biggest limiting factors. The number one recommendation of the Group to improve mule deer management in the Southwest Desert Ecoregion was to create sources of water in areas where water is limiting and where other potentially limiting factors are being addressed. Also, consistent with the Group’s recommendation is the Department’s Species Management Guidelines (SMG) which provides goals, objectives, strategies and procedures for a specific species. The SMG outlines four ways to improve and enhance deer habitat to accomplish the overall goal of increasing mule deer populations to levels that provide diverse recreational opportunities. Number one on the list is: protect and maintain current water sources.

The system currently in place was installed in 1949. It has reached the end of its lifespan. In 2002, a team was created to evaluate the Department’s wildlife water development program. The team created a Wildlife Water Development Team Report which provided recommendations, guidelines and priorities for water developments and redevelopments throughout the state. Catchment 106 was all listed as a “first priority” catchment for redevelopment due to excessive water hauling. If evaluated today, all three catchments would receive the highest redevelopment priority status of WAR which stands for excessive Water hauling plus failure-prone Apron and Ring tank/storage tank.

**PROJECT OBJECTIVES:**

- To decrease the risk of vehicle/wildlife collisions on Highway 79
- To increase deer and javelina populations by providing a dependable, long term, self-sustaining quality water source.
- To increase hunter opportunity.

- To install a system that has a long lifespan (40-50 years for storage and collection systems, 25 years for drinking troughs)
- To install a system that does not require supplemental hauling except in rare or exceptional circumstances
- To install a system that has minimal visual impacts and blends in with surrounding landscape
- To install a system that is accessible and that requires minimal routine maintenance

### **PROJECT STRATEGIES:**

Each project will be completed in the following way:

- **Components** - Utilize big game special tag funds to purchase the system components.
- **Excavating** - The Martin Group, LLC has offered to help with the project. They may donate their services to excavate catchment 106 using a CAT loader however, access is difficult. At the very least, I believe they will demolish and remove the old catchment 106. Excavation for the new 106 will be completed using a rental backhoe from Tucson if necessary.
- **Labor** - Volunteers from the Arizona Deer Association, Mule Deer Foundation, 123 Go..., and local sportsmen solicited through Coues Whitetail.com and other online outdoor blogging sites will provide labor for the project.
- **Development Branch Involvement** – Development Branch will transport the project supplies to the site and provide any specialized equipment or tools required for the job. They would also provide 1-2 people for project supervision and oversight. This is expected to be minimal.

**The catchment will be redeveloped using the following components and design. System capacity will be approximately 10,500 gallons. Each site will receive the following:**

- (4) 24"x100' runs of PVC pipe
- 30" fiberglass PVC trough – longer version
- 24'x96' R-panel collection apron
- 150'x150' wildlife friendly pipe rail fence
- Required plumbing components

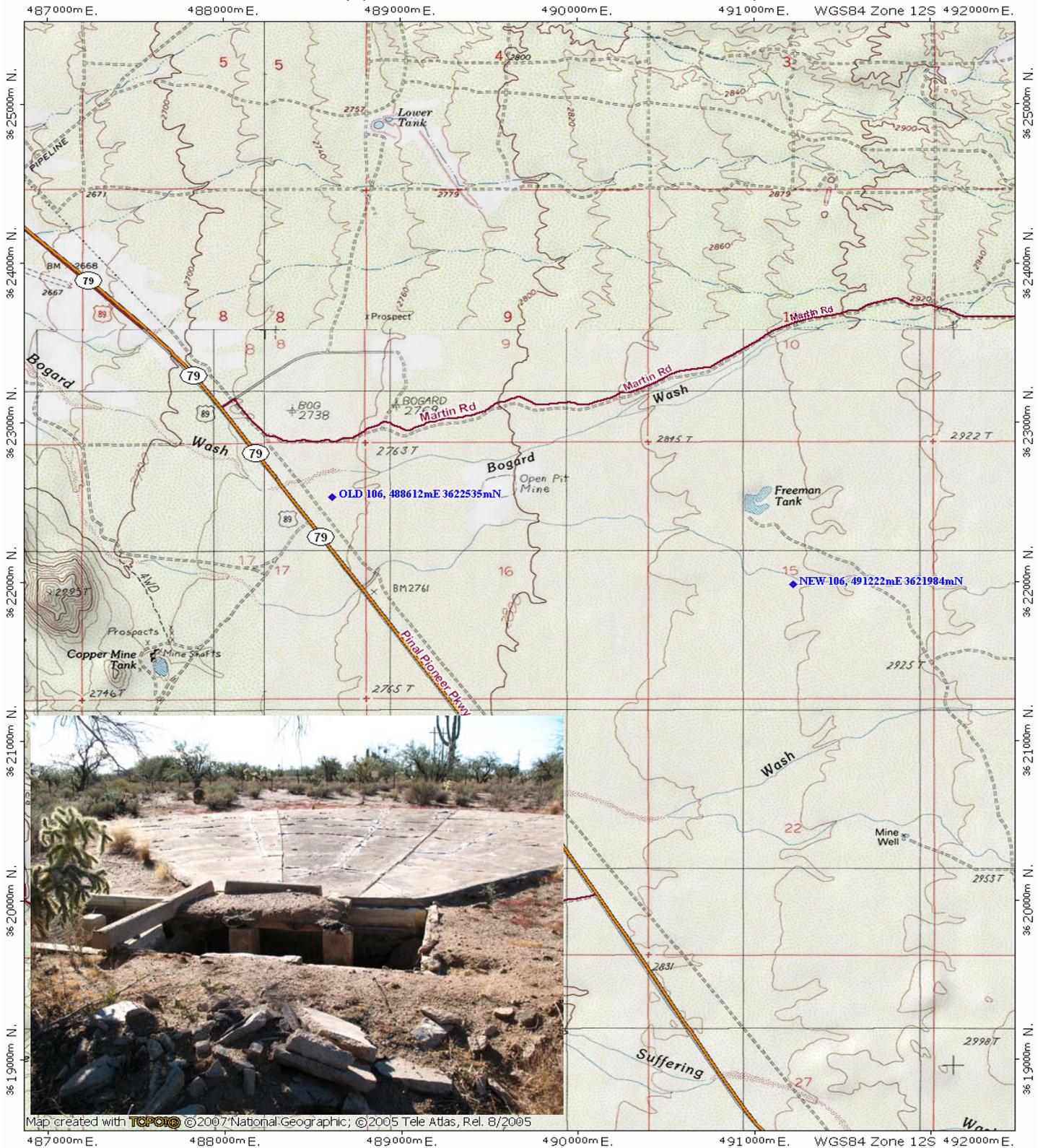
-A remote digital monitoring camera will also be purchased to monitor wildlife use at the site.

### **PROJECT LOCATION:**

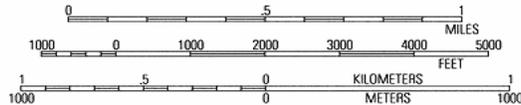
Game Management Unit 37B

UTM Coordinates: 491222mE, 3621984mN

TOPO! map printed on 08/20/08 from "Old and new 106.tpo"



Map created with TOPO! © 2007 National Geographic; © 2005 Tele Atlas, Rel. 8/2005



TN MN  
11°  
08/20/08

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

The project site is on land administered by the Arizona State Land Department, Tucson Field Office, 4455 S. Park Avenue Suite 101 Tucson, Arizona 85714 (520) 628-5480.

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

**HABITAT DESCRIPTION:**

Game management unit 37B is located in Pinal County, Arizona, southeast of Phoenix. Two main biotic community types, Sonoran Desertscrub and Semidesert Grassland, comprise the bulk of the habitat in 37B. The proposed catchment is located within the Paloverde-cacti-mixed scrub series of the Arizona Upland subdivision of the Sonoran Desertscrub community. Common vegetation includes foothill palo verde (*Cercidium microphyllum*), mesquite (*Prosopis spp.*), saguaro (*Carnegiea gigantea*), ocotillo (*Fouquieria splendens*), and triangle-leaf bursage (*Ambrosia deltoidea*). Average rainfall is approximately 13” and elevation is approximately 2850’.

**ITEMIZED USE OF FUNDS:**

<b>Item</b>	<b>Dimensions</b>	<b>Cost</b>	<b>Cost Share</b>	<b>Funds Needed</b>
4-24”x100’ PVC runs (2500g each)	24”x100’ each	\$3,700		\$14,800
24’x96’ R panel apron	24’x96’	\$10,779		\$10,779
30” PVC fiberglass trough – long version	30”	\$750		\$750
Wildlife "friendly" livestock enclosure fence	150’x150’	\$2,500		\$2,500
Plumbing		\$1000		\$1000
Tax @ 8.1%		\$2,416		\$2,416
Backhoe rental for 1 week delivered		\$1,500		\$1,500
Remote Digital Monitoring Camera		\$500		\$500
Labor		\$20,000	AGFD, Volunteers	\$0
<b>Total</b>		<b>\$54,245</b>	<b>\$20,000</b>	<b>\$34,245</b>

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**LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:**

- The Martin Group, LLC - They have offered to help with the project. They may donate their services to excavate catchment 106 using a CAT loader however, access is difficult. At the very least, I believe they will demolish and remove the old catchment 106. Excavation for the new 106 will be completed using a rental backhoe from Tucson if necessary.
- Arizona Deer Association – volunteer labor
- Mule Deer Foundation – volunteer labor
- Local sportsmen solicited through Coues Whitetail.com – volunteer labor
- Coues Whitetail.com – advertise the project to generate volunteer interest
- 123 Go... - youth volunteer labor
- Marshall MacFarlane – [www.arizonahuntingtoday.com](http://www.arizonahuntingtoday.com) – advertise the project to generate public and volunteer interest
- AGFD Development Branch – acquire the materials, transport the materials to the job site, provide any specialized equipment or tools required for the redevelopment, provide minimal (1-2) assistance for project supervision and oversight.
- ASLD – NEPA and Arch clearances
- Tucson Habitat Partnership Committee: coordinate project funding opportunities

**PROJECT MONITORING PLAN:**

A remote digital camera will be used to monitor density and frequency of wildlife water use during the months of May-July if cameras are available. This will enable the Wildlife Manager to make better informed decisions for the management of wildlife within GMU 37B.

Water levels will be monitored at least twice per year with emphasis during the warmer drier months by the Wildlife Manager. Additional monitoring will be conducted as needed. Minor maintenance will also be conducted as needed by the Wildlife Manager. The AGFD Development Branch will be responsible for major maintenance issues.

**PROJECT MAINTENANCE:**

The maintenance of each catchment will continue to be the responsibility of the AGFD. The Wildlife Manager will be responsible for coordinating this.

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

Ed Jarke, Joe Currie or Ben Brochu

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

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

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

**PROJECT NAME: Catchment #106 Redevelopment – Owl’s Head #8**

- 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 – 8-6-07 and 9-11-08
  
- 3) **What is the estimated annual inches of precipitation for the area? (mark one)**  
\_\_\_2-4 \_\_\_4-6 \_\_\_6-8 \_\_\_8-10 \_\_\_10-12 \_\_X\_\_12-14 \_\_\_14-16 \_\_\_>16
  
- 4) **Is there a perennial water source available to big game within four miles of this project?**  
\_\_X\_\_YES (please complete #5 below) \_\_\_NO (skip #5 below)
  
- 5) **For the accessible, perennial water source nearest this project:**  
Name of water source: Catchments 1134 and 108  
Type of water source (catchment, spring, dirt tank, etc.): catchments  
Ownership of water source: AGFD  
Distance in miles from project: 3.65 and 2.76
  
- 6) **Is the target wildlife species a result of transplant efforts?** \_\_\_YES \_\_X\_\_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.**  
N/A
  
- 8) **Please provide the following information about access to the proposed site:**  
Type of access (mark one): \_\_\_2x4 vehicles \_\_X\_\_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 \_\_X\_\_NO  
  
-- Please describe any restrictions to public access: N/A
  
- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**

<b>Item</b>	<b>Dimintions</b>	<b>Cost</b>	<b>Cost Share</b>	<b>Funds Needed</b>
4-24"x100' PVC runs (2500g each)	24"x100' each	\$3,700		\$14,800
24'x96' R panel apron	24'x96'	\$10,779		\$10,779
30" PVC fiberglass trough – long version	30"	\$750		\$750
Wildlife "friendly" livestock exclosure fence	150'x150'	\$2,500		\$2,500
Plumbing		\$1000		\$1000
Tax @ 8.1%		\$2,416		\$2,416
Backhoe rental for 1 week delivered		\$1,500		\$1,500
Remote Digital Monitoring Camera		\$500		\$500
Labor		\$20,000	AGFD, Volunteers	\$0
<b>Total</b>		<b>\$54,245</b>	<b>\$20,000</b>	<b>\$34,245</b>

**10) Was a site visit completed?  Yes  No**

A site visit was completed with Joe Currie on 8-6-07 and with Rachel McGee (ASLD) on 8-23-07 at the existing location. A site visit to the new location was conducted on 8-28-08 with Rachel McGee and is scheduled for 9-11-08 with Joe Currie.

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**ARIZONA GAME AND FISH DEPARTMENT**  
**TREE SHEARING WORKSHEET**

**PROJECT NAME:** \_\_\_\_\_

- 1) **What is the estimated acreage of the project?**
  
- 2) **How are the trees going to be cleared? (agra axe, chain saw, push):**
  
- 3) **What is the estimated number of trees per acre?**
  
- 4) **Describe trees to be cleared (species, estimated diameter, single stem, multi-stem):**
  
- 5) **Describe terrain (slope, soil type, rocks, etc.)**
  
- 6) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument, etc). If private land, list landowner.**
  
- 7) **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  
  
Is the site relatively accessible for tree shearing equipment? \_\_\_\_\_YES \_\_\_NO  
  
Please describe any restrictions to public access:

**PROJECT COMPLETION REPORT**  
(Please complete the report and forward to Game Branch)

within 30 days of the completion of the project. THANK YOU!)

**Project Title:** \_\_\_\_\_

**Project number:** \_\_\_\_\_

**GMU:** \_\_\_\_\_

**Project Coordinator (IF NOT APPLICANT):** \_\_\_\_\_

**Agency:** \_\_\_\_\_

**Address:** \_\_\_\_\_

\_\_\_\_\_

**Phone:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**Project Completion Date** \_\_\_\_\_

**COOPERATING AGENCIES AND/OR CONSERVATION GROUPS, LANDOWNERS, ETC.:**

**PROJECT ACCOMPLISHMENTS:**

**PROJECT RESULT ACTIONS:**

(List practices implemented as a result of project, i.e. area rested from grazing for 2 yrs., season recommendations revised based on new distributions, data received from project, etc.)

**COMMENTS ABOUT THE PROJECT:**

(Please list updates, reports, concerns, suggestions)

**MAINTENANCE/MONITORING SCHEDULE (from this point on): WHO and WHEN?**

**PHOTO:** (Please attach)

**MAIL COMPLETED PROJECT COMPLETION FORM TO:**  
**Game Branch**  
**Arizona Game and Fish Department**  
**2221 W. Greenway Road**  
**Phoenix, AZ 85023**  
**[rothompson@azgfd.gov](mailto:rothompson@azgfd.gov)**