

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

Game Branch / HPC Project Number:	11-303
Possible Funding Partners:	

PROJECT INFORMATION

Project Title: Powerline and Music Mountain #1-5 Catchment Redevelopment

Region and Game Management Unit: Region 3/Game Management Unit 15A

Local Habitat Partnership Committee (LHPC):

- Kingman no longer has a local HPC

Was the project presented to the LHPC?

YES[] NO[X]

Has this project been submitted in previous years? YES[X] NO[]

If Yes, was it funded? YES[X] NO[] → HPC Project #: 06-301

Project Type: Redevelopment of Wildlife Water Catchments

Brief Project Summary:

Installation of two new buried 18' X 3' fiberglass tanks with walk-in trough(s) and buried pipelines for most of the distance to the new tanks. Removal of the existing catchments, replacement of tank covers, soil re-contouring and fence replacement (with three-rail, black-pipe fence) would also occur as needed. Internal fencing to prevent elk damage to catchment aprons would also be installed. Catchment aprons and fencing would be camouflaged to blend into the surrounding landscape. All renovations would occur within the existing fenced areas surrounding the catchments.

Big Game Wildlife Species to Benefit: Elk, Mule Deer, Pronghorn Antelope, Mountain Lion, Javelina

Implementation Schedule (Month/Day/Year):

Project Start Date: Phase 2 – (2012-2013)
Phase 3 – (2014-2015)

Project End Date:

Environmental Compliance:

NEPA Completed: YES NEPA completed for Powerline, Music Mountains #1-5 (NEPA not required for these catchments, maintenance clearance received from BLM – Kingman)

Projected Completion Date: _____

State Historic Preservation Office - Archaeological Clearance:

YES[X] Powerline #920 (AZ-310-06-15)

No[X] Music Mountain #1-5

Projected Completion Date: _____

Arizona Game and Fish Department EA Checklist: N/A[]

To be Completed by: Joseph Currie AZGFD

Projected Completion Date: _____

PROJECT FUNDING

Special Big Game License Tag Funds Requested: Phase 2 - \$152,757 (2012-13); Phase 3- \$152,757 (2014-2015).

Cost Share or Matching Funds: Phase 1 - \$254,595 (completed with WCF and BLM assistance agreement funds), \$5000+ in WCF funds and potential BLM assistance agreement funds for Phase 2 and Phase 3 costs.

Total Project Costs: Phase 2 and 3 - \$305,514

PARTICIPANT INFORMATION		
Applicant (please print): Deanna Kephart AZGFD Trevor Buhr AZGFD	Address: 5325 N. Stockton Hill Road Kingman, AZ 86409	E-mail: dkephart@azgfd.gov tbuhr@azgfd.gov
Telephone: (928)692-7700		Date: August 22, 2011
AGFD Contact and Phone No. (If applicant is not AGFD personnel):		
Project has been coordinated with: AZGFD- Joseph Curry, Deanna Kephart, Trevor Buhr BLM- Rebecca Peck, Amon Wilhelm		

NEED STATEMENT – PROBLEM ANALYSIS:

These catchments were originally constructed 30-50 years ago. Inspections have revealed that because of age-related deterioration, the catchments function poorly and are unreliable. Some of the catchments are entirely non-functional. The small capacity and outdated design require frequent monitoring and expensive water hauling trips to ensure sufficient water remains available for wildlife in the area. Each water-hauling trip by truck costs approximately \$550.

PROJECT OBJECTIVES:

The Department proposes to improve these existing water catchments to maintain the availability of water for wildlife at these locations. The purpose of these projects are to provide a dependable year-round water source for wildlife and reduce the number of annual water hauling and maintenance trips to each of the catchment locations. It is also the Department’s objective to reduce the effects of drought and thermal stress on game species and other wildlife by constructing, redeveloping and maintaining wildlife water developments.

These objectives will be completed in 3 phases. Phase 1 included Music Mountains #6-9, McCracken #2-4 and Cherum Peak. This phase has already been completed and paid for entirely with WCF and BLM assistance agreement funds. Phase 2 will include Powerline and Music Mountains #1-2 catchments. Phase 3 will include Music Mountains #3-5. Once all 3 phases are complete, all of the Music Mountains will have updated and fully functional wildlife catchments.

PROJECT DESCRIPTION AND STRATEGIES:

At each catchment site:

1. Install two 3’ deep X 18’ diameter fiberglass ring tanks.
2. Install one 3’ deep standard walk-in trough.
3. Install one 24’ X 96’ metal frame and R-panel apron.
4. Install wildlife friendly pipe-rail fence package (200’ X 250’’).

PROJECT LOCATION:

Powerline catchment #920- T26N R15W S2
Music Mountains #1 catchment #732- T25N R14W S18
Music Mountains #2 catchment #733- T24N R14W S36

Music Mountains #3 catchment #742- T24N R14W S10
Music Mountains #4 catchment #743- T28N R16W S32
Music Mountains #5 catchment #744- T28N R17W S12

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

BLM owns the land at each catchment site.

IF PRIVATE PROPERTY, IS THERE A STEWARDSHIP or LANDOWNER AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?
YES[] NO[]

HABITAT DESCRIPTION:

Powerline #920- over-story vegetation includes Utah juniper and single-leaf pinyon. A variety of small shrubs and grasses comprise the understory and include: mountain big sage brush, Fremont barberry, bottlebrush squirreltail, blue grama and western wheatgrass. This catchment is located on Colorado Plateau mixed grass plains and Grand Canyon Desert Shrub habitats respectively. This site is immediately adjacent to the pinyon-juniper woodland. The dominant aspect of the Grand Canyon desert shrub range site is a desert shrub-grass mix. This range site is dominated by flattop buckwheat, Nevada Mormon tea and range ratany. Perennial grasses like desert needlegrass, black grama and bush muhly are abundant. This site also has some areas of locally abundant blackbrush. The dominant aspect of the Colorado Plateau mixed grass plains range site is a shrub-grassland. The major shrubs are blackbrush and Utah agave. Dominant grasses are sideoats grama and slim tridens. Forbs are few.

The Music Mountains #1-5 catchments are located in Mojave desert scrub habitat. This habitat consists of a vast and diverse expanse of shrubs, Joshua trees and cactus on desert uplands. The vegetation is dominated by Creosote Bush, White Bursage and mixed with shrubs such as Nevada Jointfir, Fremont's Dalea, salt bush, Brittlebush, Spiny Menodora, White Burrobrush, Box Thorn, Spiny Hopsage, Littleleaf Ratany, Mormon Tea and Rabbitbrush. A number of yucca and yucca-like species can be found in this habitat, including Joshua trees, Mojave Yucca, Banana Yucca and Soap-tree Yucca. Agave can be found in the rocky areas. Several types of cactus are common here, including Cholla, Pricklypear, Hedgehog Cactus, and occasionally Pincushion and Cottontop Cactus.

ITEMIZED USE OF FUNDS:

Special Big Game License Tag Funds

Phase 2- \$152,757 (2012-2013) Phase 2 will include Powerline and Music Mountains #1-2.

Phase 3- \$152,757 (2014-2015) Phase 3 will include Music Mountains #3-5.

Total Project Cost: Phase 2 and 3- \$305,514

For each catchment:

- 1) Two 3' deep X 18' diameter fiberglass ring tanks- \$12,672
- 2) One 3' deep standard walk-in trough- \$2,107
- 3) One 24' X 96' metal frame and R-panel apron- \$7,390
- 4) One pipe-rail fence package (200' X 250')- \$3,750
- 5) Labor contracted out- \$25,000

Total Cost per Wildlife Catchment = \$50,929

Cost Share or Matching Funds

Phase 1- \$254,595 (completed with WCF and BLM assistance agreement funds) \$5,000+ in WCF funds and potential BLM assistance agreement funds for Phase 2 and Phase 3.

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

AGFD Development Branch, AGFD Region 3, BLM Kingman Office

PROJECT MONITORING PLAN:

Periodic checks will be made by the local Wildlife Manager to ensure that the catchments are functional and holding water properly.

PROJECT MAINTENANCE:

The AGFD development branch will do any maintenance or repairs that need to be completed on these catchments.

PROJECT COMPLETION REPORT TO BE FILED BY:

AGFD- Joseph Curry

WATER DEVELOPMENT PROJECTS (*see attached worksheet*):

Attached worksheet

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

Non-Applicable

ARIZONA GAME AND FISH DEPARTMENT
WATER DEVELOPMENT WORKSHEET

PROJECT NAME: Powerline and Music Mountains #1-5 Catchments Redevelopment

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.**
Joseph Curry 8/27-28/08

3) **What is the estimated annual inches of precipitation for the area? (mark one)**

2-4 4-6 6-8 8-10 10-12 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: N/A**

Name of water source:

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

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). If private land, list landowner.**

The area that Music Mountains #5 is located in is considered an ACEC because of the Joshua trees in the area. There is no special land management status for the other catchments.

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:
No restrictions to access, property is BLM.

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

- 1) Two 3' deep X 18' diameter fiberglass ring tanks
- 2) One 3' deep standard walk-in trough
- 3) One 24' X 96' metal frame and R-panel apron
- 4) One Pipe-rail fence package (200' X 250')

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

If Yes, please list personnel that attended and date.

On 4/27/05 Joe Curry of the AZGFD, Rebecca Peck and Craig Johnson of BLM completed a site visit of Powerline. On 09/03/08 Lainie Ozment, Joe Curry and Erin Butler of the AGFD and Amon Wilhelm of BLM completed a site visit of Music Mountains catchments #1-5. On 09/16/08 a third site visit of the Powerline catchment was conducted by Lainie Ozment of the AGFD, Rebecca Peck and Craig Johnson of BLM.

ARIZONA GAME AND FISH DEPARTMENT
TREE SHEARING WORKSHEET

PROJECT TITLE: N/A

- 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)**

- 6) **Please list any special land management status for the project site (e.g. Wilderness, National Park, National Monument). If private land, list landowner.**

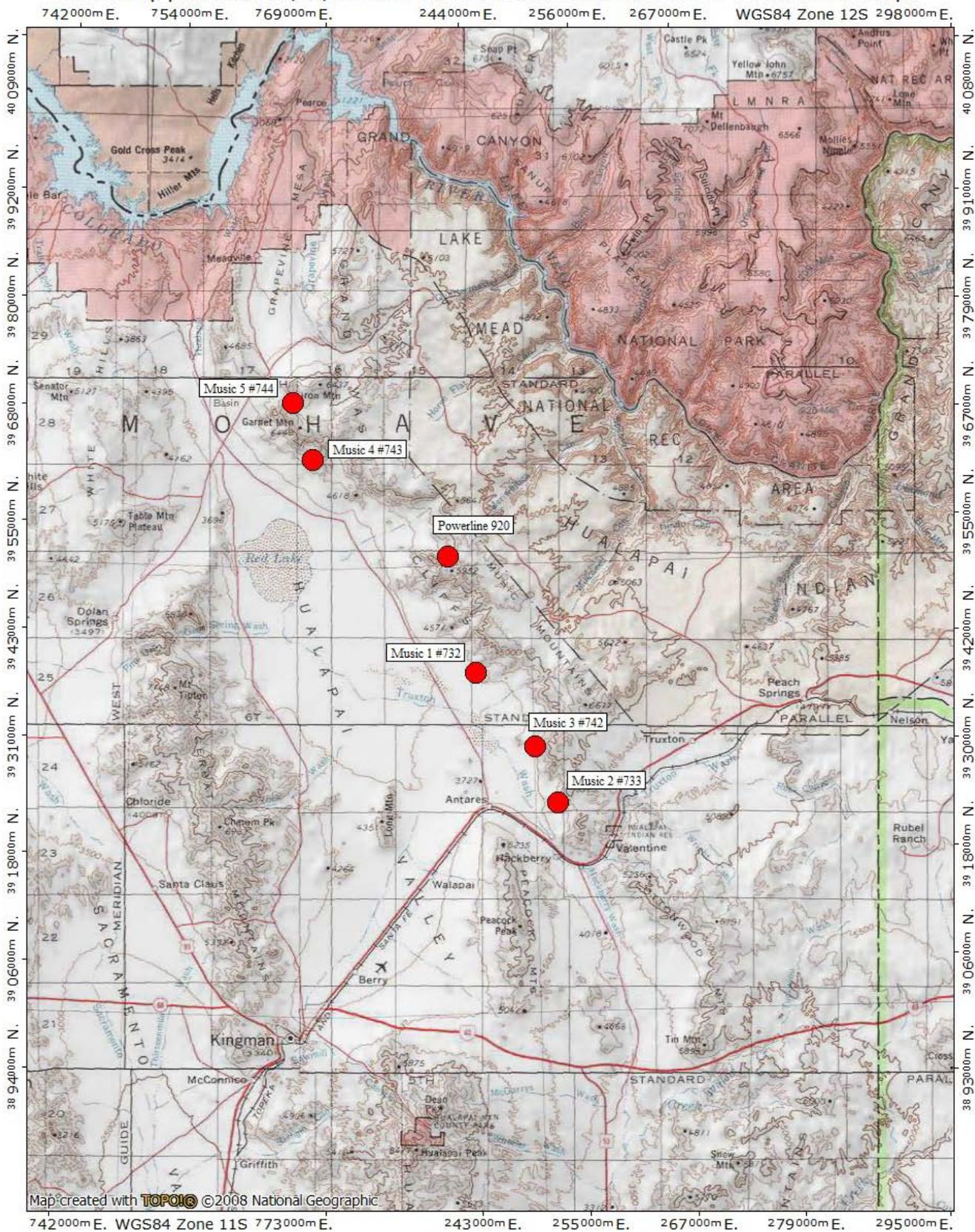
- 7) **Please provide the following information about access to the proposed site:**
Type of access (mark one): 2x4 vehicles 4x4 only Foot only**
**If foot access only: Distance in miles: Approx. hiking time:

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

Is the site relatively accessible for tree shearing equipment? YES[] NO[]

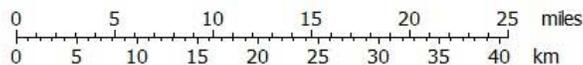
Please describe any restrictions to public access:

TOPO! map printed on 08/23/11 from "Powerline and Music Mountains #1-5 Catchments.tpo"



Map created with TOPO! ©2008 National Geographic

742000m E. WGS84 Zone 11S 773000m E. 243000m E. 255000m E. 267000m E. 279000m E. 295000m E.



08/23/11