

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

HPC Project Number:	17-529
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PROJECT INFORMATION

Project Title:	Lucky Hills Range Improvements		
Game Management Unit:	30B	Region:	Region 5
Local Habitat Partnership Committee (LHPC):	Was the project presented to the LHPC?		
Sierra Vista-Douglas HPC	No		
Project Location: (Please provide <u>lat/long</u> in decimal degrees or meters of project area using datum WGS84 or NAD83. If project is larger than one point, please include them all. Provide an accompanying shapefile as an attachment for the project area).			
LATITUDE/NORTHING:3502858			
LONGITUDE/EASTING:585358			
MULTIPLE LOCATION COORDINATES:			
See attached map and shapefiles for coordinates of individual components (brush treatment, fence, and water development)			
Project Type:	Water Project		
Water Project Action (if applicable):	Redevelopment		
Habitat Restoration Action (if applicable):			
Other Project Type and Action (if applicable):	Water redevelopment and Habitat improvement		
Has this project been submitted in previous years?	No		

PROJECT SUMMARY

Describe the proposed action only. Please use plain English, what action are you proposing? (If applicable, please reference any completed compliance including EAC#).

Brief Project Summary:
A new perennial water source will be created in an area with few reliable water sources by extending an 8,000' pipeline into a pasture where perennial grasses will also be enhanced through brush management. Additionally, a cross-fence will be installed so that a rotational grazing system can be implemented. This project will be funded in large part through the Natural Resources Conservation Service (NRCS); HPC funding will be used toward the water development, with the rancher and NRCS covering the cost of the herbicide treatment and fence.

Primary Big Game Wildlife Species to Benefit:	Mule deer
Implementation Schedule (Month/Day/Year)	START DATE: 4/1/2017
	COMPLETION DATE: 3/31/2018

PROJECT FUNDING

Project Funding	Itemized Use of Funds
<p>*Qualifying Cost Share should be restricted to support (materials, compliance, and or labor) of the proposed action ONLY (same time and place). Please do not include previously purchased supplies or past completed work.</p> <p><u>HPC Funds Requested</u></p> <p>Amount: \$ 5,090</p> <p><u>Cost Share or Matching Funds</u></p> <p>Amount: \$ 18,990 Organizations: NRCS, Landowner</p> <p><u>Percent Match: 79%</u></p> <p><u>Total Project Cost</u></p> <p>Amount: \$ 24080</p>	<p>Please email separate quotes if HPC funds are to be used to purchase materials or contracted labor: HPC@azgfd.gov.</p> <p><u>HPC Funds</u> Pipeline: \$4,050 Storage: \$1,040</p> <p><u>NRCS Match</u> Pipeline: \$12,150 Drinker: \$1,080 Storage: \$3,960 (Brush Trtmt: \$101,003 – leverage funds) (Fence: \$26,333 – leverage funds)</p> <p><u>Landowner Match</u> Drinker: \$1,800 (Brush Trtmt: \$25,897 - leverage funds) (Fence:\$8,778 – leverage funds)</p>

ENVIRONMENTAL COMPLIANCE

Please indicate the status of the Project's compliance. if you are unsure, please reference:

HPC Compliance Checklist (<https://www.azgfd.com/wildlife/hpc/forms/>).

If you have questions regarding the requirement of an EAC, contact AGFD's Project Evaluation Program:

(<https://www.azgfd.com/wildlife/planning/projevalprogram/>).

***Please email supporting compliance documents to HPC@azgfd.gov ***

AGFD EA Checklist Completed:	NA	Completion Date:	
NEPA Completed:	NA	Completion Date:	
State Historic Preservation Office/ Archaeological Clearance:	No	Completion Date:	Will be completed by NRCS/ASLD

CONTACT INFORMATION

Applicant

The project applicant is the responsible party for seeing the work through to completion.

APPLICANT NAME: Mary Ann Black

PHONE: [REDACTED]

ORGANIZATION: Lucky Hills Ranch

EMAIL: [REDACTED]

ADDRESS: [REDACTED]

AGFD Project Proponent

The Project Proponent is responsible for compliance, implementation, and annual/final reporting requirements.

AGFD CONTACT NAME: Brad Fulk

PHONE: 520-559-0642

Cooperators

COOPERATOR NAME(S), ORGANIZATION, ROLE IN PROJECT:

Don Decker, Natural Resources Conservation Service. Planning, administration of NRCS contract.

Mary Ann Black, ranch owner/operator, Lucky Hills Ranch. Planning, coordination, project implementation, monitoring of project success, and maintenance.

Brad Fulk, Sector Supervisor, AZGFD, and Sierra Vista-Douglas HPC Chair.

Rana Tucker, Landowner Relations Program, AZGFD, Tucson. Project application development, oversight.

Josh Grace, Arizona State Land Department. Project oversight, recommendations, compliance for projects on State Lands.

PROJECT NEED AND DESCRIPTION

Please use direct language: why is this project important? What problem will be solved? How will you implement it, and how will the habitat be enhanced? Please include # of acres, methods, roles, and any phases. Please be specific and thorough.

NEED STATEMENT – PROBLEM ANALYSIS:

This 25,200 acre ranch, situated between the San Pedro River and Tombstone, AZ, in Game Management Unit 30B was once part of a desert grassland ecosystem. According to the Management Focal Area Plan for this unit, "overall challenges to habitat in the focus area include...encroachment and expansion of shrubs and mesquite vegetation into historic grassland communities." Lack of perennial water sources and brush encroachment are listed as Priority 1 Issues in the plan, with establishment of new perennial water sources, habitat manipulation, and proper grazing techniques recommended to address these issues. Each of the elements in this proposal will help the rancher meet these needs. Water lines that used to feed this remote area prior to current owners were not maintained. Brush encroachment has severely reduced the available native grasses. Water development, fence repair, and herbicide treatment will significantly improve habitat and increase dispersal of wildlife and cattle.

PROJECT DESCRIPTION AND STRATEGIES:

Rancher will install 8,100 feet of HDPE pipe underground from an existing well, along a former pipeline route. This pipe will connect to a new 3,000 gallon storage tank and two 600 gallon troughs. Water drinkers will be small and wildlife-friendly, and water will be supplied throughout the year, whether livestock are present in the pasture or not.

Associated projects: At the rancher's cost, with assistance from NRCS, 2,350 acres of range land will be treated with Spike 20P (tebuthiuron) to reduce shrub density and encourage greater forage production. Approximately 3 miles of barbed wire fence will need to be installed so livestock can be deferred during the first growing season following the herbicide treatment for maximum regrowth of native grasses, and to enable a rotational grazing system. The fence will be built to wildlife-friendly specifications provided by the NRCS.

LAND OWNERSHIP AT THE PROJECT SITE(S):

Arizona State Land Department

PROJECT MONITORING PLAN:

Water drinkers will be monitored by Ranch manager to assure functionality at all times. Before and after photographs could be provided periodically.

PROJECT MAINTENANCE:

Ranch owner/manager will monitor project to assure success.

PROJECT COMPLETION REPORT TO BE FILED BY:

Brad Fulk

SUPPORTING DOCUMENTS LIST:

Project Map, NRCS Plan

Have supporting documents been submitted?

Yes, I emailed them to: HPC@azgfd.gov

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

PROJECT TITLE: Mary Ann Black, Owner/Manager

- 1) **Was a site visit completed (Date and with whom)?** Yes, Don Decker

- 2) **If this is a dirt tank project, has the site historically held reliable water?** n/a

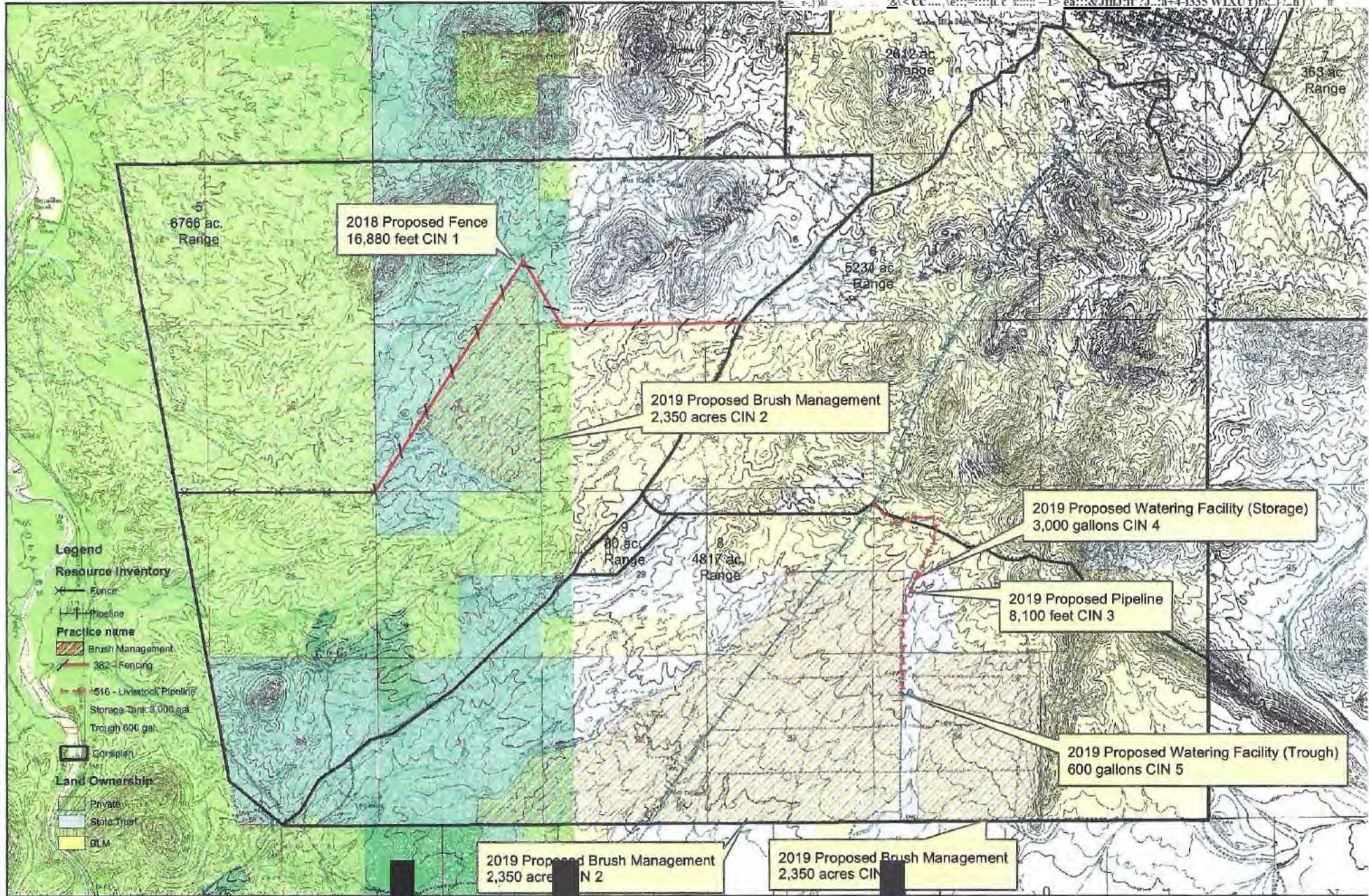
- 3) **If this is a dirt tank project and soil data is available, what type of soil is at the site?** n/a

- 4) **If this is a water catchment project, please list the Development Branch coordination date:** na/

- 5) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”** n/a

- 6) **If this is a water catchment project, please list the Development Branch personnel coordinated with:** n/a

- 7) **Is there a perennial water source available to big game within four miles of this project?**
unknown



- Legend**
- Resource Inventory**
- Fence
 - Pipeline
- Practice name**
- Brush Management
 - 382 - Fencing
 - 516 - Livestock Pipelining
 - Storage Tank 3,000 gal.
 - Trough 600 gal.
- Conservation**
- Conservation
- Land Ownership**
- Private
 - State Trust
 - BLM

USDA



Miles

A

1 inch = 4,167 feet
Prepared with assistance from USDA-Natural Resources Conservation Service

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

<p>PARTICIPANT MARY ANN BLACK</p>	<p>COUNTY AND STATE COCHISE County, AZ</p>	<p>PROGRAM AND CONTRACT NUMBER EQIP 2014 74945717060 PY 2014 Prior Year Funds Used</p>	<p>SUBACCOUNT Restore Arizona (Douglas)</p>
		<p>LAND UNITS OR LEGAL DESCRIPTION Farm:2636 Trac(s):2616.</p>	

Contract Items 1: Fence(382)

Practice Lifespan: 20 years

Status: Planned 2018

A barb wire fence will be installed as part of this conservation management system to implement prescribed grazing. The fence will be constructed according to NRCS specifications. With proper maintenance, the life expectancy of this practice is 20 years.

Fields:

Tract: 2616 Fields: 5;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR	
					2018 \$	2019 \$
1	Fence(382)	16880 ft			26,333	
1a	Multi Strand Barbed/Smooth Wire	16880 ft	\$1.5600/ft	PR'	26,333	

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Items 2: Brush Management(314)

Practice Lifespan: 10 years

Status: Planned 2018

It has been determined grazing management alone will not restore the desired plant community needed to obtain conservation objectives in fields 5 & 8. Brush management will be applied as part of an overall conservation management system to reduce invasive brush species and increase perennial grass cover. Whitethorn, creosote and tarbush will be significantly reduced, using chemical treatment methods according to the Brush Management practice specification provided. Follow up management will include: a monitoring plan to determine the success of the brush management, livestock grazing deferral for two summer growing seasons, and any needed post treatment to control resprouting or reoccurrence of the target brush species. The practice must be maintained to meet the intended use.

Fields :

Tract: 2616 Fields: 5, 8;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR	
					2018 \$	2019 \$
2	Brush Management(314)	2350 ac			101,003	
2a	Chemical, Aerial Applied	2350 ac	\$42.9800/ ac	PR'	101,003	

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Items 3: Livestock Pipeline(516)

Practice Lifespan: 20 years

Status: Planned 2019

A pipeline will be installed to convey water for livestock or recreational needs. Cultural resources and endangered species laws will be followed for all ground disturbing activities. On State Trust Lands, an approval to place improvements will be obtained from the Arizona State Land Department prior to Installing this practice.

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT MARY ANN BLACK	COUNTY AND STATE COCHISE County, AZ	PROGRAM AND CONTRACT NUMBER EQIP 2014 74945717060 PY 2014 Prior Year Funds Used	SUBACCOUNT Restore Arizona (Do uglas)
		WATERSHED Mescal Creek	ACRES 13319
			EXPIRATION DATE 1/30/2020

Fields:
 Tract: 2616 Fields: 8;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR											
					2018 \$	2019 \$										
5	Watering Facility(614)	1 no				1,080										
5a	Permanent Drinking/Storage > 500-1000 Gallons	600 gal	\$1.8000/gal	PR'		1,080										

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

Contract Items 6: Prescribed Grazing(528) **Practice Lifespan:** 1 year **Status:** Planned 2D19

Grazing will be managed according to a schedule that meets the needs of the soil, water, air, plant and animal resources and the objectives of the resource manager. A Prescribed Grazing and Maintenance Plan will be provided to you that outline the grazing and rest periods for your specific operation.

Fields:
 Tract: 2616 Fields: 5, 8;

Contract Item	Planned Conservation Treatment	Planned Amount	Unit Cost	Cost Share Rate/Method	COMPLETION SCHEDULE AND ESTIMATED COST-SHARE OR PAYMENT BY YEAR .											
					2018 \$	2019 \$										
6	Prescribed Grazing(528)	11583 ac					1,275									
6a	Range, Basic, More than 10,000 acres	-11 583 ac	\$0.1100/ ac	PR'		1,275										

Notes: 'Payment rates define the unit cost rate of compensation to be received by the participant.

CONSERVATION PLAN OR SCHEDULE OF OPERATIONS

PARTICIPANT
MARY ANN BLACK

COUNTY AND STATE
COCHISE County, AZ

PROGRAM AND CONTRACT NUMBER
EQIP 2014 74945717060

SUBACCOUNT
Restore Arizona (Douglas)

PY 2014 Prior Year Funds Used

LAND UNITS OR LEGAL DESCRIPTION	WATERSHED	ACRES	EXPIRATION DATE
Farm:2636 Tract(s):2616.	Mesca I Creek	13319	1/30/2020

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