

**Arizona Water Protection Fund  
FY 2014 Grant Application Review**

Application # WPF0407 Applicant: Date Creek Ranch

Title of Project: Date Creek Riparian  
Restoration Project

Additional materials were submitted with this application that could not be reproduced and distributed for review. These materials may be reviewed in person at the Arizona Water Protection Fund offices at (3550 N. Central Avenue, 2<sup>nd</sup> Floor, Phoenix). The additional materials available are the following:

- Maps
- Photographs
- Disk ~~(#)~~ (1)
- Other

# DATE CREEK RIPARIAN RESTORATION PROJECT

Arizona Water Protection Fund Grant Application  
FY 2014



WPF 0407  
**Arizona Water Protection Fund**  
**Application Cover Page**  
**FY 2014**

AUG 28 2013

Water Protection Fund

<b>Title of Project:</b> Date Creek Riparian Restoration Project											
<b>Type of Project:</b> <input checked="" type="checkbox"/> Capital or Other <input type="checkbox"/> Water Conservation <input type="checkbox"/> Research	<b>Stream Type:</b> <input checked="" type="checkbox"/> Perennial <input checked="" type="checkbox"/> Intermittent <input checked="" type="checkbox"/> Ephemeral										
<b>Your level of commitment to maintenance of project benefits and capital improvements:</b> <input type="checkbox"/> < 5 years <input type="checkbox"/> 5-10 years <input type="checkbox"/> 11-15 years <input checked="" type="checkbox"/> 16-20 years											
<b>Applicant Information:</b> Name/Organization: Date Creek Ranch Address 1: Knight Family Trust/Kimberley Knight Trustee Address 2: P.O.Box 1484 City: Wickenburg State: AZ ZIP Code: 85358-1484 Phone: 602-909-6069 Fax: Tax ID No.:	<b>Inside an AMA:</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>  <b>If yes, which AMA:</b> <input type="checkbox"/> Phoenix <input type="checkbox"/> Tucson <input type="checkbox"/> Prescott <input type="checkbox"/> Pinal <input type="checkbox"/> Santa Cruz  <b>Type of Application:</b> <input checked="" type="checkbox"/> New <input type="checkbox"/> Continuation										
<b>Contact Person:</b> Name: Stefan Wolf Title: Project Coordinator Phone: 928-231-0704 Fax: e-mail: srafter2@gmail.com	<b>Any Previous AWPf Grants:</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  <b>If yes, please provide Grant #(s):</b>										
<b>Arizona Water Protection Fund Grant Amount Requested:</b>  \$147877  If the application is funded, will the Grantee intend to request an advance: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<b>Matching Funds Obtained and Secured:</b> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;"><u>Applicant/Agency/Organization:</u></th> <th style="text-align: right;"><u>Amount (\$):</u></th> </tr> </thead> <tbody> <tr> <td>1. Applicant</td> <td style="text-align: right;">74025</td> </tr> <tr> <td>2. AZSLD</td> <td style="text-align: right;">31607</td> </tr> <tr> <td>3. AZGFD&amp;NRCS</td> <td style="text-align: right;">21140</td> </tr> <tr> <td colspan="2" style="text-align: right;"><b>Total: 126873</b></td> </tr> </tbody> </table>	<u>Applicant/Agency/Organization:</u>	<u>Amount (\$):</u>	1. Applicant	74025	2. AZSLD	31607	3. AZGFD&NRCS	21140	<b>Total: 126873</b>	
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1. Applicant	74025										
2. AZSLD	31607										
3. AZGFD&NRCS	21140										
<b>Total: 126873</b>											
Has your legal counsel or contracting authority reviewed and accepted the Grant Award Contract General Provisions? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A											
<b>Signature of the undersigned certifies understanding and compliance with all terms, conditions and specifications in the attached application. Additionally, signature certifies that all information provided by the applicant is true and accurate. The undersigned acknowledges that intentional presentation of any false or fraudulent information, or knowingly concealing a material fact regarding this application is subject to criminal penalties as provided in A.R.S. Title 13. The Arizona Water Protection Fund Commission may approve Grant Awards with modifications to scope items, methodology, schedule, final products and/or budget.</b>											
Kimberley Knight	Trustee/Owner, 602-909-6069										
<b>Typed Name of Applicant or Applicant's Authorized Representative</b>	<b>Title and Telephone Number</b>										
	8/27/13										
<b>Signature</b>	<b>Date Signed</b>										

## Executive Summary

Date Creek is one of Arizona's unique desert streams with high potential to produce high quality riparian habitats. This project is focused on establishing essential stream functions that lead to having a more stable and productive stream ecosystem. A complete assessment of watershed conditions for the target areas will guide the design of restoration practices. This project will focus on stabilization and restoration of 6 miles of Date Creek over a period of 3 years. We will reach these goals through implementation of channel and vegetation treatments designed to restore and sustain stability to the channel. We will document changes in channel morphology, hydrology, and vegetation using a permanent monitoring system. Preliminary assessment data have been collected to assist in developing a strategic plan for restoration and management of the riparian areas. Additional assessment data will be collected and used to design and prescribe treatments to further enhance and sustain the long term stability of the riparian ecosystem.

The project consists of three major phases: and subsequent long-term monitoring of results.

Phase 1. Conduct a complete habitat assessment to define causal factors, e.g. invasive plants, and problem areas. This assessment will guide the design of channel and vegetation treatments that could be used to achieve the desired stability.

Phase 2. Removal of invasive and undesirable species, e.g. salt cedar, from a 6 mile reaches of Date Creek. Salt cedar populations are presently manageable but are increasing and becoming a necessity for control in approximately 3 miles of intermittent and perennial reaches.

Phase 3. Establishment of channel control structures using onsite natural materials to direct flood flows and establish channel stability. In channel materials, including down and standing woody debris and rock/boulders, will be used to build channel stabilization structures designed to guide base and flood flows and direct bedload and fine sediments through the active floodplain to produce a meandering channel.

Phase 4. Establishment of essential obligate graminoids, e.g. sedges and rushes, to control channel erosion and assist in development of stable streambanks and active floodplain.

Phase 5. Monitoring. The developmental changes will be monitored using both qualitative and quantitative methods to document habitat changes. An adaptive management process will be employed to guide additional treatments using monitoring data. NRCS, AZGFD as well as AZSLD and Date Creek Ranch Management Team are committed to implement a multi year monitoring program to evaluate the results of the project and to make science based management decisions for the riparian area as well as the adjoining uplands and the watershed.

# Date Creek Riparian Restoration Project

## Project overview

### A. Background

Description of Area – Date Creek is a tributary to Santa Maria River and part of the Bill Williams River watershed in southwestern Yavapai County, Arizona. Date Creek Ranch straddles the transition area between the Mohave and Sonoran deserts, with Joshua trees, Saguaros, Cottonwood and Willow along the stream.

Date Creek Ranch encompasses 37,000 acres of State Trust Lands and 650 acres of private property. Elevations range from 2500 in the lower deserts to 4500 feet on Date Creek Mountain.

In the 1860's, Date Creek was on the main route between Prescott, AZ and California and was a stopping point for travelers.

Fort Date Creek, a now abandoned military outpost, is a few miles away. Established as Camp McPherson January 23, 1867 as a temporary post 60 miles southwest of Prescott in Yavapai County. It was created to protect travelers on the road from La Paz to Prescott. The post was moved north 25 miles and was renamed Camp Skull Valley in March of 1867. On May 11, 1867 the camp was returned to its original location and renamed Camp Date Creek. It would be moved two more times along Date Creek. The post was given up in 1874.

In Prescott on July 4, 1888, home of the world's oldest rodeo, a cowboy named Juan Leivas won rodeo's first professional title. Juan was awarded a trophy for all-around cowboy having won both the steer roping and bronc riding contests at the "cowboy tournament" as it was then called. Leivas was a Date Creek Ranch cowhand.

Our family moved to Date Creek ranch in 1966. When we arrived at the ranch, the 6 miles of ephemeral and perennial stream was little more than a broad swath of barren sand and scattered cottonwood and willow trees. Javelina and other large wildlife were rare; the turkeys and beaver were little more than tales of the land's past, long ago wiped out. Since 1982 we have been applying "Holistic Management" principles that involve intensive management of pastures and other resources. A rest/rotation grazing management plan that gave the creek the opportunity to rest during the growing season was implemented in the early 1980's and we have seen remarkable results since. In 2006 we constructed a fence to create a riparian pasture and gain more control over grazing and animal impact on the new riparian pasture. The fence was constructed in cooperation with LCCGP, AZGFD and matching funds from the owners/lessees.

## B. Goals and Objectives

The goal of this project is to restore proper hydrological and biological function to a segment of Date Creek on the Date Creek Ranch. We seek to accomplish this by identifying the underlying causes of dysfunction using assessment guides, and prescribing channel treatments that promote channel stabilization using channel structures, debris removal to reestablish freeboard for proper flood flow dissipation, revegetation, and removal of tamarisk.

### Objectives:

1. Perform an in depth assessment to identify causal factors affecting the hydrological and biological functions and to properly prescribe best management practices to restore function.
2. Removal of invasive Salt cedar from the whole 6 mile stream system (intermittent to perennial).
3. Restore proper sinuosity and processing of bedload through removal and relocation of woody debris and rock structures along the 4 miles of perennial and intermittent reaches.
4. Restore appropriate riparian plant diversity and streambank stabilization through reseedling/transplanting of seedlings found on site as well as seeding with native aquatic graminoid species endemic to the region and stream.
5. Establish a monitoring program to document changes over time of channel development and establishment of streambank and floodplain vegetation.

## C. Statement of Problem/Causes

Recent habitat assessments have revealed three major problems affecting the functional health of Date Creek. Tamarisk, a recent invader, has encroached on many areas and has established to form mature stands. These stands pose both biological and hydrological threats to functions of the riparian and aquatic habitats. Second, the active channel is unstable as a result of excessive bedload, unrouted flows, and lack of freeboard caused by the invasion of various woody plant and flood debris accumulated over several floods. Freeboard refers to the essential obstacle-free, active floodplain area over which flood flows dissipate their energy and deposit sediments, which in turn are used to establish streambanks and define the stream's flood-flow regime. The latter conditions have resulted in channeling braiding, and ultimately produced a dysfunctional flow regime. Unobstructed flood flows are a best management practice designed to minimize flood impacts and sustain stability functions. Third, the native herbaceous aquatic plant composition is impoverished, which further exacerbates the dysfunction of the riparian ecosystem. Comparatively, the native plant flora is about 1/10 that of other riparian areas such as the upper Verde River (Medina 2012).

Functional riparian systems require both that hydrological and biological components be interactive to produce resilient and sustainable habitat. Past management coupled with devastating floods has caused degradation of hydrological function and the habitat integrity of Date Creek. As ranchers we have reached a plateau and wish to take our restoration efforts to the next level. Date Creek's ability to return to stable function needs help.

#### D. Statement of Solutions

This project is intended to improve the hydrological and biological functions of a 6-mile reach of Date Creek. Tamarisk will be removed from the areas within the reach and retreated to assure mortality. Regeneration of young plants will be suppressed in subsequent years through direct hand grubbing. The stabilization of the active channel requires the active use of structural treatments to direct flows and bedload away from critical terraces (point sources of fines) and assists in the development of a single functional channel. Channel braiding can be reduced and eliminated over time by re-directing flows and sediments, as well as concentrating base flows as well as flood flows. The removal of in channel debris will aid in redirecting larger flood flows into the main channel, while aggrading the adjacent terraces. Obligate aquatic vegetation, e.g. sedges and rushes, will assist in the development of streambanks through the capture and processing of sediments. The prescribed vegetation treatments are intended to work synchronously with the structural treatments to enhance channel stabilization, as well as improve the aquatic plant diversity of the stream. Only naturally occurring materials will be used in the structures. All of these materials will be from the site. Native plants will be seeded and seedlings planted to restore a healthy diverse plant community that will not only provide habitat and forage for native wildlife and livestock, but also assist in stream bank stabilization and the resilience of the system to withstand major flood events. Mechanical removal and appropriate use of herbicide on tamarisk will remove the seed source for future infestations.

We expect long term benefits from the collected monitoring data that will allow analysis of the local watershed and riparian system, as well as the role of management decisions. A final analysis for the final report will include but will not be limited to

- Baseline assessment of health of the stream and associated riparian system.
- Role of sediment in the riparian dynamic
- Role of management decisions in the upland pastures and riparian pasture

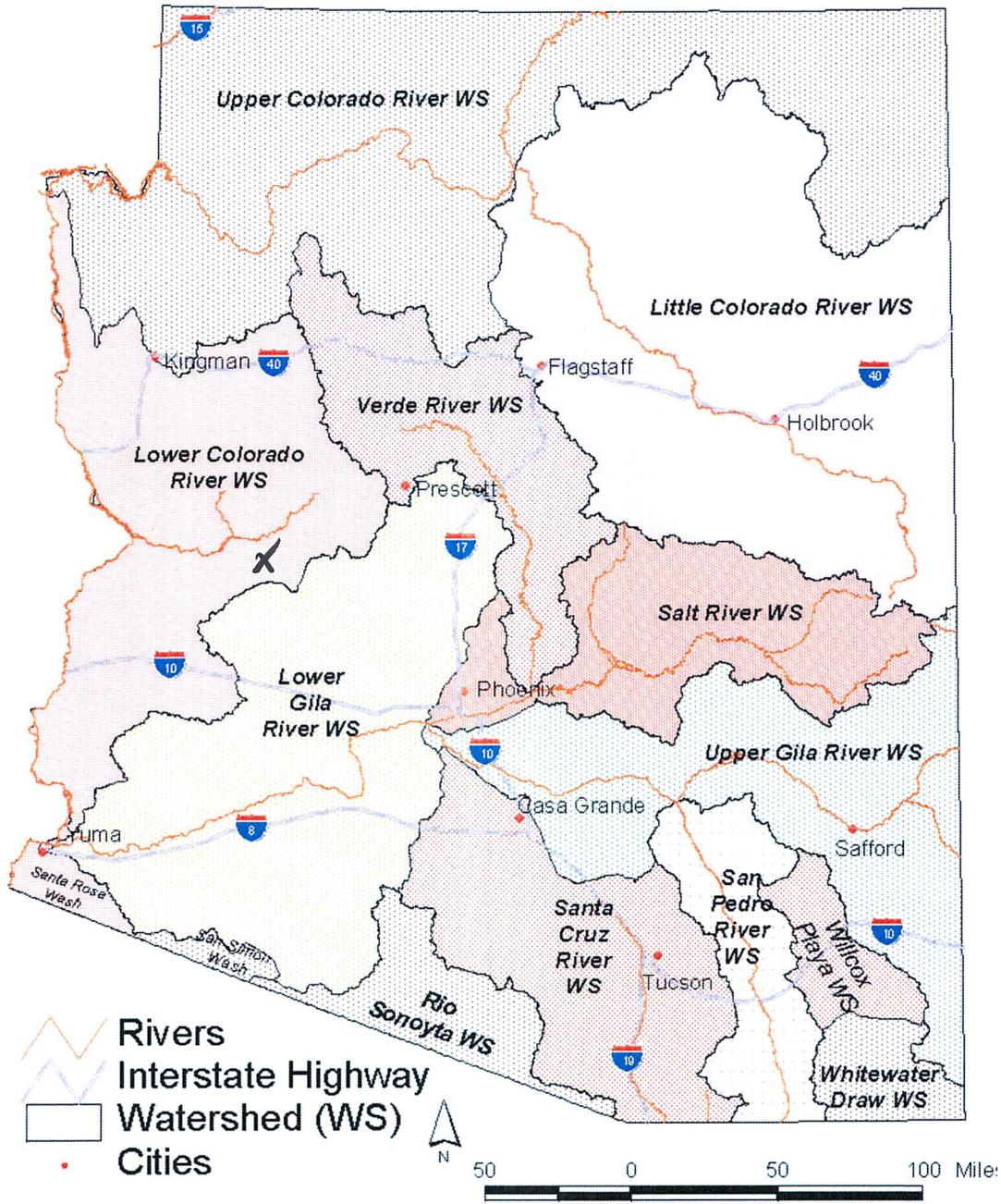
#### E. Statement of Project Years of benefit

Benefits from this project are expected for 75+ years. The establishment of essential aquatic graminoids (sedges and rushes) on treated segments is expected to expand to adjacent reaches and contribute to the overall stability of the creek. The benefits to wildlife are similarly anticipated. The woody components are intact. It is anticipated that long term derived benefits included increased flows from perennial reaches to intermittent resulting from increased and sustain ecological functions. The owners/lessees, AZSLD, AZGFD and NRCS are committed to long-term monitoring and maintenance of this project.

## Project Location & Environmental Contaminant Information FY 2014

<b>Project Location Information</b>			
1. County: <u>Yavapai</u>	2. Section: <u>4,5,6,7&amp;12,13</u>	3. Township: <u>10N</u>	4. Range: <u>7W&amp;8W</u>
<p>5. Watershed: <u>Santa Maria</u></p> <p>6. 8 or 10 Digit Hydrologic Unit Code (HUC): <u>15030203</u></p> <p>7. Name of USGS Topographic Map where project area is located: <u>Date Creek Ranch/O'Neil Pass</u></p> <p>8. State Legislative District: <u>01</u> (Information available at: <a href="http://azredistricting.org/districtlocator/">http://azredistricting.org/districtlocator/</a>)</p> <p>9. Land ownership of project area: <u>Private and AZSLD</u></p> <p>10. Current land use of project area: <u>Grazing and Wildlife use</u></p> <p>11. Size of project area (in acres): <u>350</u></p> <p>12. Stream Name: <u>Date Creek</u></p> <p>13. Length of stream through project area: <u>6 miles</u></p> <p>14. Miles of stream benefited: <u>6 miles</u></p> <p>15. Acres of riparian habitat: <u>350 acres</u> will be:</p> <div style="margin-left: 400px;"> <input checked="" type="checkbox"/> Enhanced  <input checked="" type="checkbox"/> Maintained  <input checked="" type="checkbox"/> Restored  <input type="checkbox"/> Created         </div>			
16. Provide directions to the project site from the nearest city or town. List any special access requirements:			
<b>Environmental Contaminant Location Information</b>			
<p>1. Does your project site contain known environmental contaminants? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If yes, please identify the contaminant(s) and enclose data about the location and levels of contaminants:</p> <p>2. Are there known environmental contaminants in the project vicinity? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO If yes, please identify the contaminant(s) and enclose data about the location and levels of contaminants:</p> <p>3. Are you asking for Arizona Water Protection Fund monies to identify whether or not environmental contaminants are present? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>			

# Arizona Watershed Map FY 2014



Title of Project: Date Creek Riparian Restoration Project

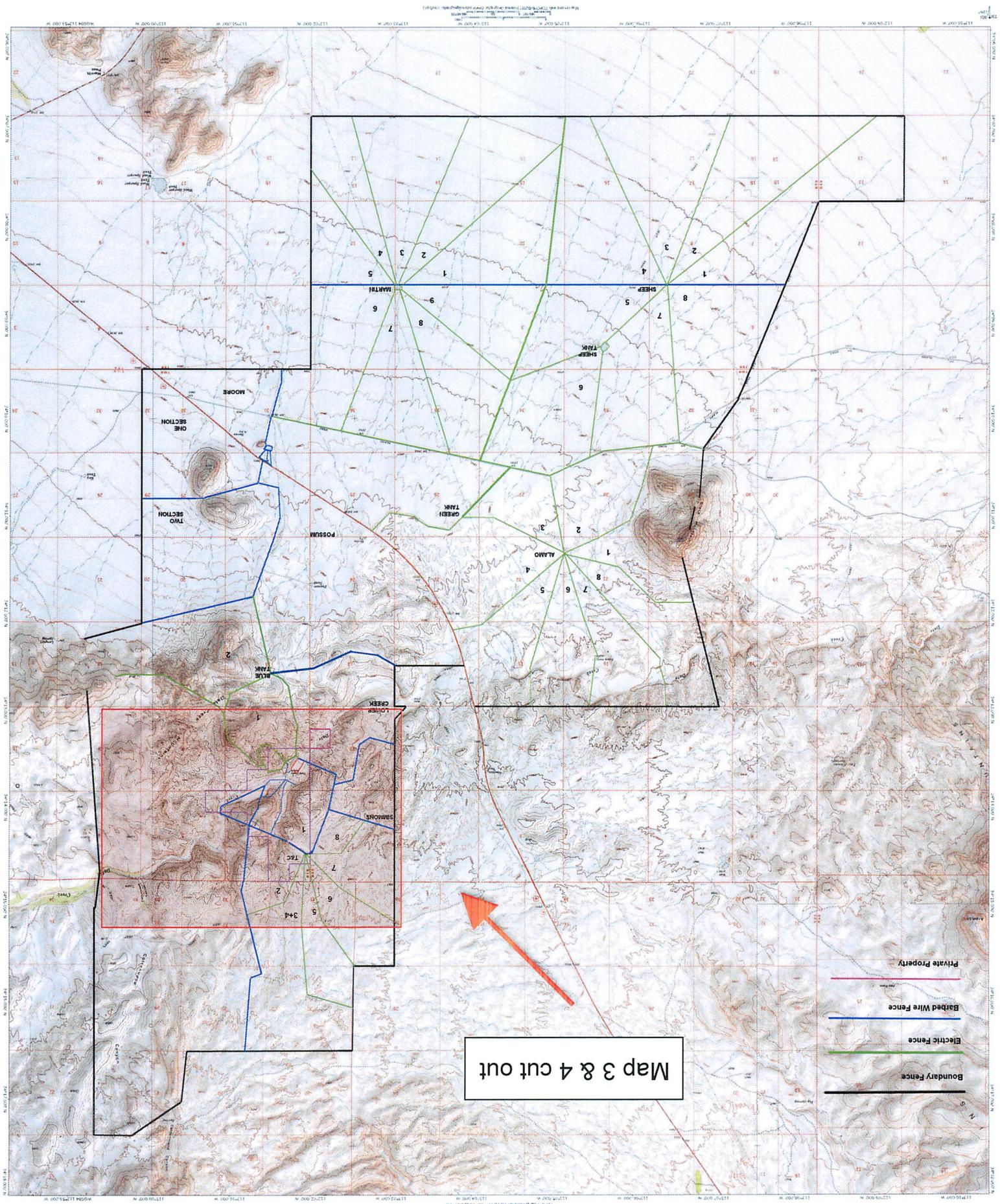
114°30.00' W 114°02.00' W 113°34.00' W 113°06.00' W 112°38.00' W 112°10.00' W 111°42.00' W 111°14.00' W 110°46.00' W 110°18.00' W 109°50.00' W WGS84 108°59.00' N



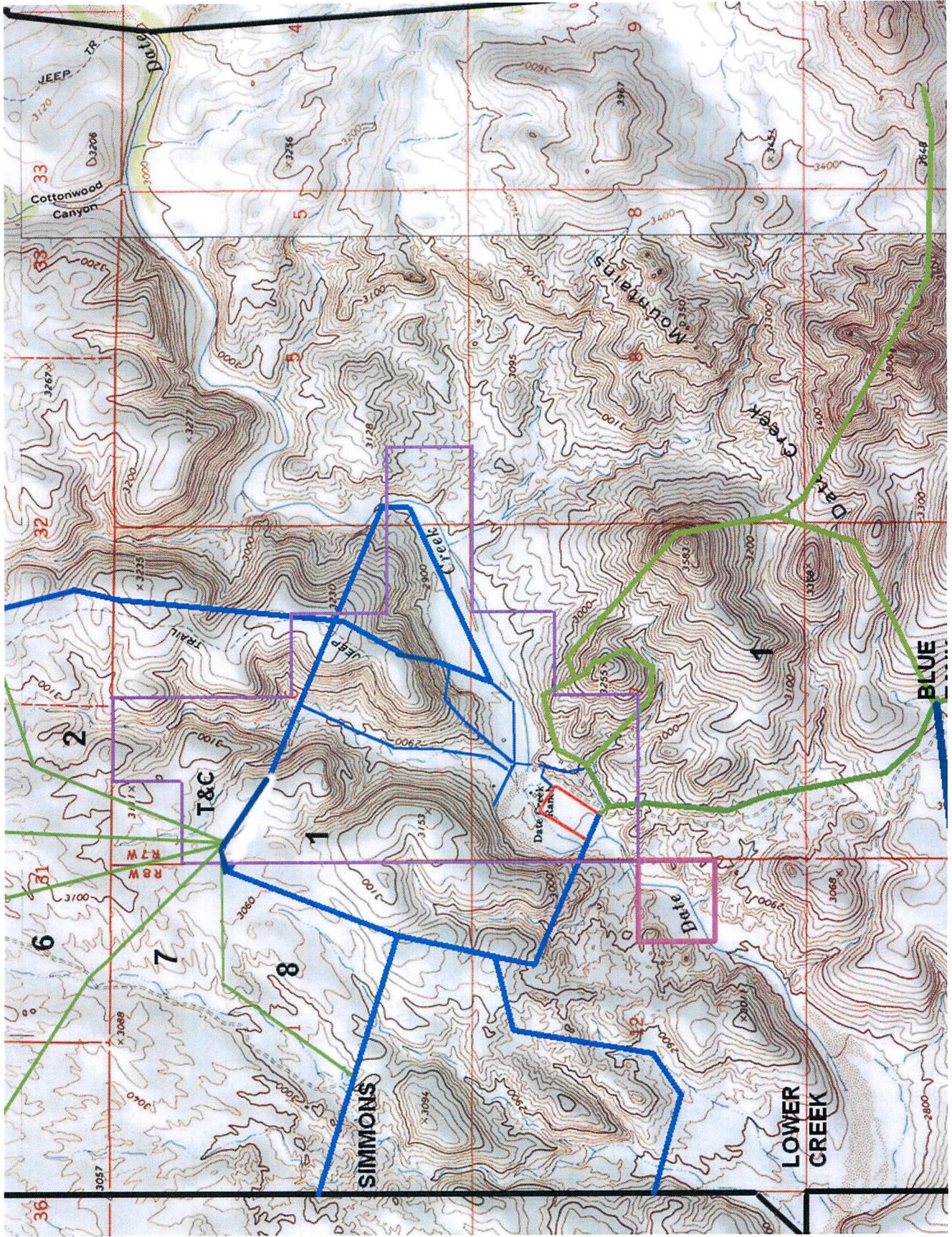
Map 2 cutout

ARIZONA

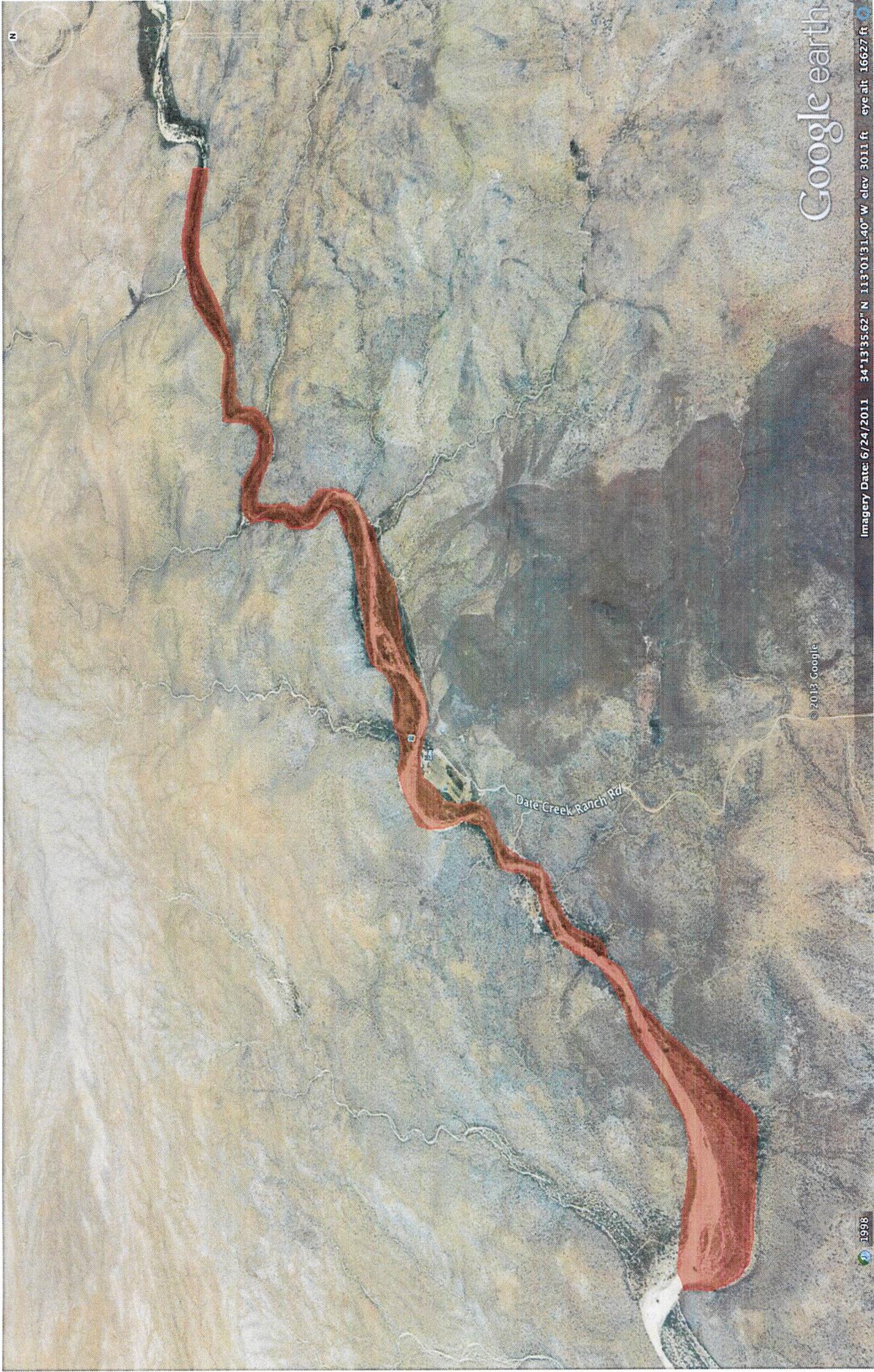
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Map 3 & 4 cut out

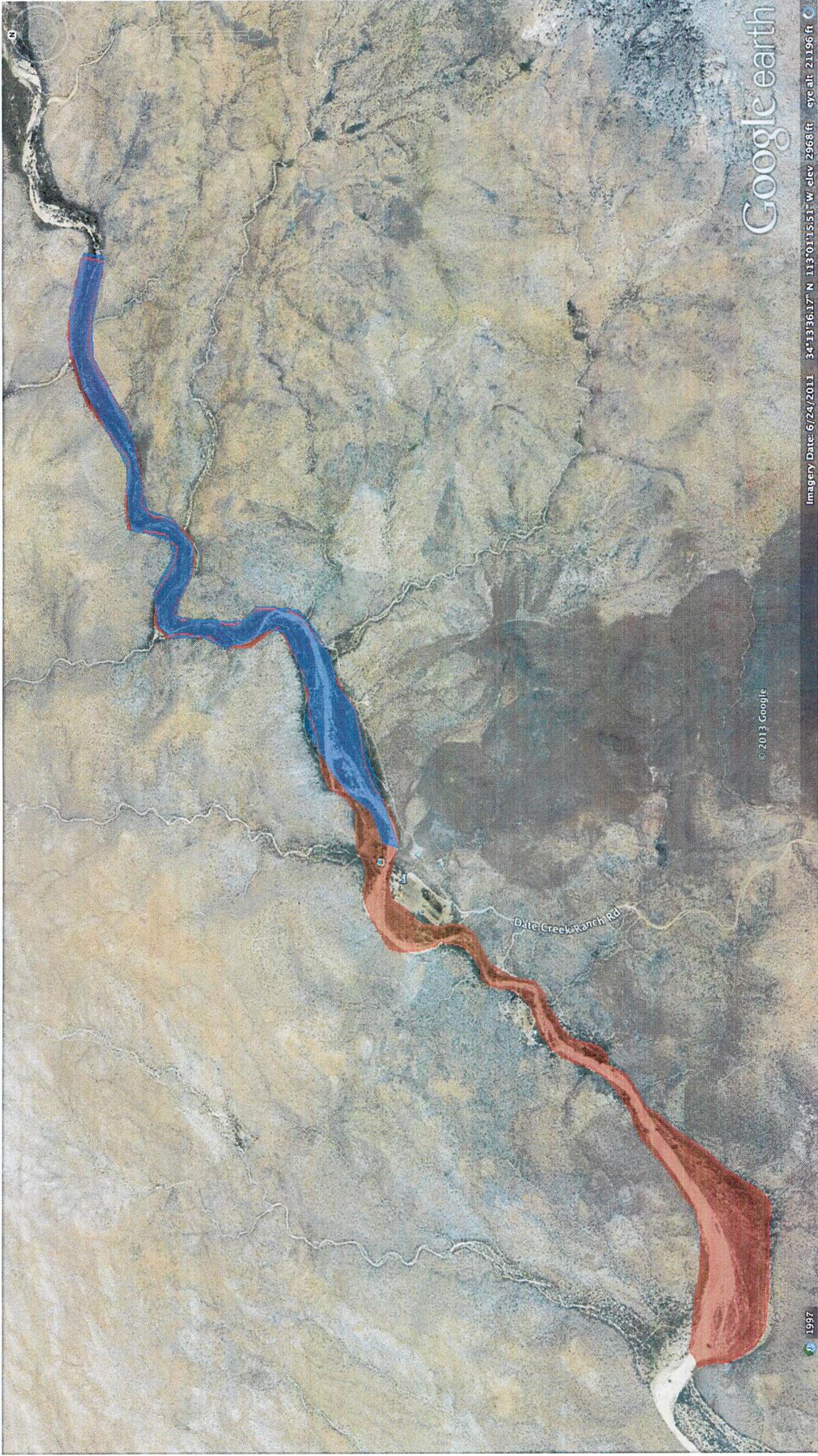


- Boundary Fence
- Electric Fence
- Barbed Wire Fence
- Private Property



Red – project area  
Salt Cedar  
removal

T 10 N R 7 W Sec: 4, 5, 6, 7  
T 10 N R 8 W Sec: 12, 13



Blue – project area  
Task 4 & 5

## **Scope of Work**

### **Task # 1 Permits, Authorizations and Clearances**

**Task Description:**

Conduct archeological survey and prepare report. Acquire all necessary permits.

Task Purpose: Compliances with all applicable laws and regulations.

**Deliverables Description:**

SHPO clearance including archeological survey

**Deliverable Due Date:**

Prior to any ground disturbance

**AWPF Reimbursable Funds:** \$ 840

**Matching Funds:** \$ 0

### **Task # 2 Implementation plan**

**Task Description:** Grantee and partners will prepare an implementation plan outlining various phase and expectations of project design and implementation, including:

- Salt Cedar Removal Plan: Assess and mark all invasive species (Salt Cedar) and assign sites for removal of salt cedar debris
- Woody Debris and Rock Site placement plan: Specialist from State Land Department,
- NRCS and riparian specialist (Al Medina) will assess and specify potential trees for falling and rocks for placement in the drainages and main channel to induce meandering and encourage growth of herbaceous material for bank stabilization
- Re-vegetation Plan: Assess and specify potential sites for placement of sedges, rushes and other native aquatic plants to induce meandering and bank stabilization
- Monitoring plan

**Task purpose:** A well-documented plan to ensure correct design and proper installation of improvements, an effective monitoring plan

**Deliverable Description:** Copies of above plans

**Deliverable Due Dates:** April 2014

**AWPF Reimbursable Cost:** \$ 9,327 (incl. 5% administrative cost)

**Matching funds:** \$ 7,570

### **Task # 3 Implement Salt Cedar Removal Plan**

**Task description:** Falling and cutting of identified Salt Cedar trees. All stumps will be treated with an approved herbicide for riparian areas.  
Cut material will be removed out of the wetted areas to eliminate regrowth.  
Retreatment after one year using the cut/stump and spray method.

**Task purpose:** Create the desired plant community consistent with the ecological site, Enhance fish and wildlife habitat.

#### **Deliverables Description:**

1. Project implementation plan as above incl. maps and before photographs of trees and location of placement.
2. Progress reports. Actual work is planned in phases according to the identified reaches of the project. Progress reports to include before and after photographs of placement locations and up/downstream photographs of the riparian corridor.
3. Final report

**Deliverables Due Dates:** October 2014

**AWPF Reimbursable Funds:** \$ 38,412 (incl. 5% administrative cost)

**Matching Funds:** \$ 24,083

### **Task # 4 Implement Woody debris and Rock Placement plan**

**Task Description:** Execution of Implementation plan. Falling of trees, placement of deadwood and rocks according to plan, under supervision of Project Coordinator

**Task Purpose:** Stabilization of creek banks through induced meandering

#### **Deliverable Description:**

1. Project implementation plan as above incl. maps and before photographs of trees and location of placement.
2. Progress reports. Actual work is planned in phases according to the identified reaches of the project. Progress reports to include before and after photographs of placement locations and up/downstream photographs of the riparian corridor.
3. Final report

**Deliverables Due Dates:** December 2014

**AWPF Reimbursable Cost:** \$ 38,950 (incl. 5% administrative cost)

**Matching Funds:** \$ 18,540

## **Task # 5 Implement Re-vegetation Plan**

**Task Description:** Procure plants for placement along creek bank, transport plant to assessed placement sites and plant species specified by the plan.

**Task Purpose:** Stabilization of creek banks through strategic planting of flood resistant aquatic species.

### **Deliverables Description:**

1. Project implementation plan as above incl. maps and before photographs of trees and location of placement.
2. Progress reports. Actual work is planned in phases according to the identified reaches of the project. Progress reports to include before and after photographs of placement locations and up/downstream photographs of the riparian corridor.
3. Final report

**Deliverables Due Dates:** October 2015

**AWPF Reimbursable Funds:** \$ 35,656 (incl. 5% administrative cost)

**Matching Funds:** \$ 34,080

## **Task # 6 Implement Monitoring Plan**

**Task Description:** The Monitoring Plan will describe both implementation and effectiveness monitoring aspects of Tasks. Implementation monitoring documents actual construction, placement activities, planting and/or removal activities. This will generally be included in Progress and Final Reports documenting completion of work described.

Effectiveness monitoring will use previous baseline surveys or previous range analyses. Specific attention will be placed on documenting existing riparian conditions using photo points before and after implementation.

Additionally, a set of 5 rain gauges will be placed strategically along the watershed on the ranch. The plan shall describe the specific monitoring schedule. It will be developed and implemented in cooperation with AZLD (Lessor), AZGFD, NRCS and Date Creek Ranch Holistic Management team.

The plan will include at a minimum:

- Descriptions of aspects of monitoring and expectations in a narrative
- Attributes to be measured and photo documented, and the frequency for sampling
- Maps that show designated monitoring sites and precipitation gauges
- Protocols and methodologies for measuring attributes
- Sample data sheets and photo point record sheets

Designation and list of persons responsible for monitoring

**Task Purpose:** Identify and ensure all partners in project implementation clearly understand the objectives for and expectations from monitoring effectiveness of proposed projects. Document for the record baseline information not only required by the AWPf, but necessary to assess if project and livestock management are accomplishing expectations and meeting desired conditions. Finally, to provide data and confirmation to help replan and adjust management of riparian resources on Date Creek Ranch as needed.

**Deliverable Description:**

1. Establish monitoring sites and photo points and conduct baseline monitoring
2. Read monitoring site
3. Final report
4. **Deliverable due dates:** May 2014  
October 2014, 2015,2016

**AWPF Reimbursable Funds:** \$ 19,268 (incl. 5% administrative cost)

**Matching Funds:** \$ 38,500

**Task # 7 : Final Project Reports**

**Task Description:** Preparation of final accomplishment report for completion of project. Narrative will include a summary of all Tasks accomplished within project design. There is a need to include results from the first monsoon season of potential flows, the final report is planned upon project completion but allowing for time for results of the summer and fall growing season. In addition a report will be prepared after a Three year period that will include and discuss the monitoring data and conclusions about the effectiveness of the project.

**Task Purpose:** Document results of implementation and effectiveness of the project in meeting designed and expected objectives and land management expectations.

**Deliverable Description:**

1. Final Report
2. Long term monitoring report

**Deliverables Due dates:**

1. December 2015
2. December 2016

**AWPF Reimbursable Funds:** \$ 4,426 (incl. 5% administrative cost)

**Matching Funds:** \$ 4,100

**Date Creek Ranch Riparian Restoration Project**  
**Detailed AWPB Budget Breakdown**

Date Creek Ranch Riparian Restoration Project Detailed AWPB Budget Breakdown				
Task # 1 Permits, Authorizations and Clearances				
Direct Labor	AMOUNT	UNIT	COST/UNIT	TOTAL
Project Coordinator		16 hours	\$50.00	\$800
Task Subtotal				\$800
Administration Cost (5%)				\$40
Task Total				\$840

Date Creek Ranch Riparian Restoration Project Detailed AWPB Budget Breakdown				
Task # 2 Implementation Plan				
Direct Labor	AMOUNT	UNIT	COST/UNIT	TOTAL
Project Coordinator	60.00	hours	\$50.00	\$3,000
Riparian Restoration Specialist	90.00	hours	\$65.00	\$5,850
Subtotal				\$8,850
Other Direct Cost				
Mailings to Grantor		5 mailings	\$6.50	\$33
Subtotal				\$33
Task Subtotal				\$8,883
Administration Cost (5%)				\$444
Task Total				\$9,327

Date Creek Ranch Riparian Restoration Project Detailed AWPB Budget Breakdown

Task # 3 Implement Salt Cedar Removal Plan

Direct Labor	AMOUNT	UNIT	COST/UNIT	TOTAL
Chemical Applicator		18 Days	\$250.00	\$4,500
Work Crew 5@ \$250/day= \$ 1250 per day		18 Days	\$1,250.00	\$22,500
Project coordinator		90 hours	\$50.00	\$4,500
		0	\$0.00	\$0
<b>Subtotal</b>				<b>\$31,500</b>
<b>Other Direct Cost</b>				
Herbicide for Riparian Use (Habitat/BASF)		10 gal	\$250.00	\$2,500
Miscellaneous		1 unit	\$750.00	\$1,000
Meals for crew		18 days	\$175.00	\$3,150
Vehicle mileage		2000 miles	\$0.45	\$900
Mailings to Grantor		5 mailings	\$6.50	\$33
<b>Subtotal</b>				<b>\$5,083</b>
<b>Task Subtotal</b>				<b>\$36,583</b>
<b>Administration Cost (5%)</b>				<b>\$1,829</b>
<b>Task Total</b>				<b>\$38,412</b>

Date Creek Ranch Riparian Restoration Project Detailed AWPB Budget Breakdown

Task # 4 Implement Woody Debris and Rock Placement Plan

Direct Labor	AMOUNT	UNIT	COST/UNIT	TOTAL
Riparian Specialist		120 hours	\$65.00	\$7,800
Work Crew 5@ \$250/day= \$ 1250 per day		15 Days	\$1,250.00	\$18,750
Project coordinator		120 hours	\$50.00	\$6,000
		0	\$0.00	\$0
<b>Subtotal</b>				<b>\$32,550</b>
<b>Other Direct Cost</b>				
Saw parts (Gas, oil, chain, sprockets etc.)		1 unit	\$300.00	\$300
Chainsaw maintenance		1 unit	\$400.00	\$400
Miscellaneous		1 unit	\$800.00	\$800
Meals for crew		15 days	\$175.00	\$2,625
Vehicle mileage		1600 miles	\$0.45	\$720
<b>Subtotal</b>				<b>\$4,545</b>
<b>Task Subtotal</b>				<b>\$37,095</b>
<b>Administration Cost (5%)</b>				<b>\$1,855</b>
<b>Task Total</b>				<b>\$38,950</b>

**Date Creek Ranch Riparian Restoration Project Detailed AWP Budget Breakdown**

**Task # 5 implement Re-vegetation Plan**

Direct Labor	AMOUNT	UNIT	COST/UNIT	TOTAL
Riparian Specialist		80 hours	\$65.00	\$5,200
Work Crew 5@ \$250/day= \$ 1250 per day		12 Days	\$1,250.00	\$15,000
Project coordinator		80 hours	\$50.00	\$4,000
		0	\$0.00	\$0
<b>Subtotal</b>				<b>\$24,200</b>
<b>Other Direct Cost</b>				
Meals for crew		12 days	\$175.00	\$2,100
Vehicle mileage		800 miles	\$0.45	\$360
Miscellaneous		1 unit	\$250.00	\$250
Native Seeds		1	\$8,000.00	\$8,000
<b>Subtotal</b>				<b>\$10,710</b>
<b>Task Subtotal</b>				<b>\$34,910</b>
<b>Administration Cost (5%)</b>				<b>\$1,746</b>
<b>Task Total</b>				<b>\$36,656</b>

**Date Creek Ranch Riparian Restoration Project Detailed AWP Budget Breakdown**

**Task # 6 Implement Monitoring Plan**

Direct Labor	AMOUNT	UNIT	COST/UNIT	TOTAL
Project coordinator		80 hours	\$50.00	\$4,000
Riparian Specialist		200 hours	\$65.00	\$13,000
<b>Subtotal</b>				<b>\$17,000</b>
<b>Other Direct Cost</b>				
Raingauges for all distinct reaches of creek		6 ea	\$200.00	\$1,200
Copies and forms per year		5 ea	\$200.00	\$1,000
Miscellaneous		1 unit	\$350.00	\$350
<b>Subtotal</b>				<b>\$1,350</b>
<b>Task Subtotal</b>				<b>\$18,350</b>
<b>Administration Cost (5%)</b>				<b>\$918</b>
<b>Task Total</b>				<b>\$19,268</b>

Date Creek Ranch Riparian Restoration Project Detailed AWP Budget Breakdown

Task # 7 Final Report

Direct Labor	AMOUNT	UNIT	COST/UNIT	TOTAL
Project coordinator		80 hours	\$50.00	\$4,000
<b>Subtotal</b>				<b>\$4,000</b>
<b>Other Direct Cost</b>				
Copies, Photographs and forms		1000 pages	\$0.50	\$500
Misc. Material		1 unit	\$150.00	\$150
Mailings to Grantor and Partners		10 mailings	\$6.50	\$65
<b>Subtotal</b>				<b>\$215</b>
<b>Task Subtotal</b>				<b>\$4,215</b>
Administration Cost (5%)				\$211
<b>Task Total</b>				<b>\$4,426</b>

**Date Creek Ranch Riparian Restoration Project**  
**Detailed Matching Budget Breakdown**

Date Creek Ranch Riparian Restoration Project Detailed Matching Budget Breakdown				
Task # 2 Implementation Plan				
Direct Labor	AMOUNT	UNIT	COST/UNIT	TOTAL
AZSLD Range Con		4 Days	\$300.00	\$1,200
Owner (Lessee)		6 Days	\$250.00	\$1,500
AZGFD Wildlife manager		4 Days	\$300.00	\$1,200
A.L. Medina. Restoration Spec.		5 Days	\$500.00	\$2,500
<b>Subtotal</b>				<b>\$6,400</b>
<b>Other Direct Cost</b>				
AZSLD Vehicle mileage	800 miles		\$0.45	\$360
AZGFD Vehicle Mileage	800 miles		\$0.45	\$360
Volunteer Mileage	1000 miles		\$0.45	\$450
<b>Subtotal</b>				<b>\$1,170</b>
<b>Task Total</b>				<b>\$7,570</b>

Date Creek Ranch Riparian Restoration Project Detailed Matching Budget Breakdown				
Task # 3 Implement Salt Cedar Removal Plan				
Direct Labor	AMOUNT	UNIT	COST/UNIT	TOTAL
AZSLD Range Con		4 Days	\$300.00	\$1,200
Owner		18 Days	\$250.00	\$4,500
Labor from DCR Holistic team crew of 5		18 Days	\$750.00	\$13,500
NRCS		9 Days	\$300.00	\$2,700
<b>Subtotal</b>				<b>\$21,900</b>
<b>Other Direct Cost</b>				
AZSLD Vehicle Milage	1050 miles		\$0.45	\$473
Volunteer mileage	2000 miles		\$0.45	\$900
NRCS Mileage	1800 miles		\$0.45	\$810
<b>Task Subtotal</b>				<b>\$2,183</b>
<b>Task Total</b>				<b>\$24,083</b>

**Date Creek Ranch Riparian Restoration Project Detailed Matching Budget Breakdown****Task # 4 Implement Woody Debris and Rock Placement Plan**

<b>Direct Labor</b>	<b>AMOUNT</b>	<b>UNIT</b>	<b>COST/UNIT</b>	<b>TOTAL</b>
AZSLD Range Con		4 Days	\$300.00	\$1,200
AZGFD		3 Days	\$300.00	\$900
Owner		15 Days	\$250.00	\$3,750
Labor from DCR Holistic team crew of 5		15 Days	\$750.00	\$11,250

**Subtotal** \$17,100

**Other Direct Cost**

AZSLD Vehicle Milage	600 miles		\$0.45	\$270
Volunteer mileage	2000 miles		\$0.45	\$900
AZGFD Mileage	600 miles		\$0.45	\$270

**Task Subtotal** \$1,440

**Task Total** \$18,540

**Date Creek Ranch Riparian Restoration Project Detailed Matching Budget Breakdown****Task # 5 Implement Re-Vegetation Plan**

<b>Direct Labor</b>	<b>AMOUNT</b>	<b>UNIT</b>	<b>COST/UNIT</b>	<b>TOTAL</b>
AZSLD Range Con		10 Days	\$300.00	\$3,000
Owner		10 Days	\$250.00	\$2,500
Labor from DCR Holistic team crew of 5		10 Days	\$750.00	\$7,500

**Subtotal** \$13,000

**Other Direct Cost**

AZSLD Vehicle Milage	900 miles		\$0.45	\$405
Volunteer mileage	1500 miles		\$0.45	\$675
Sedges&Rushes removed from State Trust Lands	2000 ea		\$8.00	\$16,000
Sedges&Rushes provided by A.L..Medina	500 ea		\$8.00	\$4,000

**Task Subtotal** \$21,080

**Task Total** \$34,080

**Date Creek Ranch Riparian Restoration Project Detailed Matching Budget Breakdown****Task # 6 Implement Monitoring Plan**

<b>Direct Labor</b>	<b>AMOUNT</b>	<b>UNIT</b>	<b>COST/UNIT</b>	<b>TOTAL</b>
AZSLD Range Con		20 Days	\$300.00	\$6,000
Owner		25 Days	\$250.00	\$6,250
Labor from DCR Holistic team crew of 2		25 Days	\$250.00	\$6,250
AZGFD		20 Days	\$300.00	\$6,000
NRCS		20 Days	\$300.00	\$6,000
A. L. Medina, Riparian Spec.		4 Days	\$650.00	\$2,600
<b>Subtotal</b>				<b>\$33,100</b>
<b>Other Direct Cost</b>				
NRCS Vehicle Milage	2000	miles	\$0.45	\$900
Volunteer mileage	6000	miles	\$0.45	\$2,700
AZSLD mileage	2000	miles	\$0.45	\$900
AZGFD mileage	2000	miles	\$0.45	\$900
<b>Task Subtotal</b>				<b>\$5,400</b>
<b>Task Total</b>				<b>\$38,500</b>

**Date Creek Ranch Riparian Restoration Project Detailed Matching Budget Breakdown****Task # 7 Final Report**

<b>Direct Labor</b>	<b>AMOUNT</b>	<b>UNIT</b>	<b>COST/UNIT</b>	<b>TOTAL</b>
AZSLD Range Con		2 Days	\$300.00	\$600
Owner		4 Days	\$250.00	\$1,000
AZGFD		2 Days	\$300.00	\$600
NRCS		2 Days	\$300.00	\$600
A. L. Medina, Riparian Spec.		2 Days	\$650.00	\$1,300
<b>Subtotal</b>				<b>\$4,100</b>
<b>Other Direct Cost</b>				
<b>Task Subtotal</b>				<b>\$0</b>
<b>Task Total</b>				<b>\$4,100</b>

## STATE HISTORIC PRESERVATION OFFICE Review Form

In accordance with the State Historic Preservation Act (SHPO), A.R.S. 41-861 *et seq.*, effective July 24, 1982, each State agency must consider the potential of activities or projects to impact significant cultural resources. Also, each State agency is required to consult with the State Historic Preservation Officer with regard to those activities or projects that may impact cultural resources. Therefore, it is understood that **recipients of state funds are required to comply with this law** throughout the project period. All projects that affect the ground-surface that are funded by AWPf require SHPO clearance, **including those on private and federal lands.**

The State Historic Preservation Office (SHPO) must review each grant application recommended for funding in order to determine the effect, if any, a proposed project may have on archaeological or cultural resources. To assist the SHPO in this review, the following information **MUST** be submitted with each application for funding assistance:

- A completed copy of this form, and
  - A United States Geological Survey (USGS) 7.5 minute map
  - A copy of the cultural resources survey report if a survey of the property has been conducted, and
  - A copy of any comments of the land managing agency/landowner (i.e., state, federal, county, municipal) on potential impacts of the project on historic properties.
- NOTE: If a federal agency is involved, the agency must consult with SHPO pursuant to the National Historic Preservation Act (NHPA); a state agency must consult with SHPO pursuant to the State Historic Preservation Act (SHPA),
- OR**
- A copy of SHPO comments if the survey report has already been reviewed by SHPO.

### **Please answer the following questions:**

1. Grant Program: AWPF
2. Project Title: Date Creek Riparian Restoration Project
3. Applicant Name and Address: Knight Family Trust/Kimberley Knight, Box 1484, Wickenburg, AZ 85358
4. Current Land Owner/Manager(s): Kimberley Knight/AZSLD
5. Project Location, including Township, Range, Section: T10N R7W Sec: 4,5,6,7; T10N R8W Sec:12,13
6. Total Project Area in Acres (or total miles if trail): 350
7. Does the proposed project have the potential to disturb the surface and/or subsurface of the ground?       YES       NO
8. Please provide a brief description of the proposed project and specifically identify any surface or subsurface impacts that are expected: Placement of native rock and woody debris in creek bed to induce meandering

9. Describe the condition of the current ground surface within the entire project boundary area (for example, is the ground in a natural undisturbed condition, or has it been bladed, paved, graded, etc.). Estimate horizontal and vertical extent of existing disturbance. Also, attach photographs of project area to document condition: Ground is sandy creek bed

10. Are there any known prehistoric and/or historic archaeological sites in or near the project area?

YES  NO

11. Has the project area been previously surveyed for cultural resources by a qualified archaeologist?

YES  NO  UNKNOWN

**If YES, submit a copy of the survey report. Please attach any comments on the survey report made by the managing agency and/or SHPO**

12. Are there any buildings or structures (including mines, bridges, dams, canals, etc.), which are 50-years or older in or adjacent to the project area?  YES  NO

**If YES, complete an Arizona Historic Property Inventory Form for each building or structure, attach it to this form and submit it with your application.**

13. Is your project area within or near a historic district?  YES  NO

**If YES, name of the district:**

**Please sign on the line below certifying all information provided for this application is accurate to the best of your knowledge.**

Kim Knight  
Applicant Signature

8/27/13  
/Date

Kim Knight  
Applicant Printed Name

**FOR SHPO USE ONLY**

SHPO Finding:

- Funding this project will not affect historic properties.  
 Survey necessary – further GRANTS/SHPO consultation required (*grant funds will not be released until consultation has been completed*)  
 Cultural resources present – further GRANTS/SHPO consultation required (*grant funds will not be released until consultation has been completed*)

SHPO Comments

For State Historic Preservation Office:

Date:

**A Cultural Resource Survey of an Existing Fence at Date  
Creek Ranch, Yavapai County, Arizona**

by

Andrew L. Christenson, Ph. D.  
Archaeological Consultant

Conducted under

Arizona Antiquities Permit #2008-048bl

Mitigation for fencing project on lease number 053320

Date Creek Ranch  
P.O. BOX 1525  
Wickenburg, AZ 85358

July 6, 2008

## ABSTRACT

AGENCY: Arizona State Land Department

PROJECT TITLE: Date Creek Ranch Fence

PROJECT DESCRIPTION: existing livestock fence

LOCATION: T11N R7W S33, T10N R7W S4, 5, 6, and 7, G&SRB&M, Yavapai County, Arizona, O'Neill Pass 7.5 and Date Creek Ranch 7.5

NUMBER OF SURVEYED ACRES: 12.9 (12.1 State Trust land; 0.8 patented land)

NUMBER OF SITES: one

LIST OF ELIGIBLE SITES: AZ N:13:51 (ASM)

LIST OF INELIGIBLE SITES: none

COMMENTS: The isolated finds are not eligible for the National Register. Site AZ N:13:51 appears to have buried cultural deposits and so is eligible for the National Register under criterion d. The fence crosses the low artifact density part of the site and did not have a negative impact on it. No further archaeological work recommended for this project.

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## INTRODUCTION

At the request of the managers of Date Creek Ranch, I conducted an archaeological survey of an existing fence in Lease 053320. The report was requested by the Arizona State Land Department as mitigation for impact of the fence. This report provides background information, the results of the survey, and recommendations for the proposed project.

## PROJECT INFORMATION

The project is in T11N R7W S33, T10N R7W S4, 5, 6, and 7, G&SRB&M, Yavapai County, Arizona (Figure 1). The project is an existing fence placed to keep livestock out of the floodplain of Date Creek. Two other segments of fence away from the creek, one new and one older, which connect to the new fence along the creek, were also surveyed. I estimate total fence length at 4.25 miles. About 4.0 miles of this is on Arizona State Trust Land, managed by the Arizona State Land Department. About 0.25 mile is on patented land, which was also surveyed (shaded area in Figure 1).

## ENVIRONMENTAL AND CULTURAL BACKGROUND

The proposed project is along terraces and granitic slopes of Date Creek, a perennial stream. Vegetation consists of creosote bush, mesquite, and cactus, with occasional saguaro and Joshua tree.

There is little known about the prehistoric archaeological remains of the region. Evidence of Archaic period occupation has been found in the Harquahala Valley to the southwest where sites are basically surface scatters of stone tools left by hunter-gatherers (Bostwick 1988). To the east, along the slopes of the Hieroglyphic Mountains, evidence was found to suggest that Archaic period sites were part of a seasonal round settlement system, where people moved across the landscape to procure seasonally available resources (Rice and Dobbins 1981:68-72). Ceramic period occupation in the western desert is generally classified under the term Patayan. Common ceramics found in the general area include Lower Colorado Buff Ware, Tizon Brown Ware, and Hohokam types (Stone 1986:69). One interpretation of the use of this area has riverine Yuman groups moving out into the desert because of seasonal food shortages or conflict (Stone 1986:71).

The project area is within the territory of the western Yavapai (Tolkapaya) (Khera and Mariella 1983: Figure 1), although Mohave migration myths mention what appears to be Date Creek (Kroeber 1951:Map 2). The Camp Date Creek (1867-1874) reservation boundary was ½ mile east of the eastern edge of the project area and camp itself was 4 ½ miles upstream. This camp was a military post used as a temporary Yavapai reservation from 1870 to 1873, when they were removed against their will to a reservation in the Verde Valley (Braatz 2003:112-113, 127-137). Miners arrived in the

area in the early 1860s (mostly to the east) and the finds at Rich Hill and later the Congress Mine and the Vulture Mine, caused a major influx of EuroAmericans. The Date Creek Ranch dates to the late 19<sup>th</sup> century and the General Land Office maps done in the teens of the 20<sup>th</sup> century show ranches and irrigation along Date Creek (see below).

A record search was done on AZSITE files for any previous projects or sites within one mile of the project area. None were found. The 1919 General Land Office map held by the Arizona BLM shows several cultural features in Section 5, 6, and 7, including a house "Geo. A. Manley" in Section 5, another "H. W. Miller" in Section 7 (now Date Creek Ranch), a very long fence associated with the Miller property, and an irrigation ditch that started in Section 5 and brought water to the Miller ranch. No National Register properties are located within one mile.

## FIELD METHODS AND RESULTS

The project area was surveyed by Andrew L. Christenson under Arizona Antiquities Permit 2008-048bl on June 25 and July 2, 2008. The fence was walked in a single transect 7.5 m (25 ft.) wide. The total area covered was about 12.9 acres. Figure 1 shows the approximate alignment of the fence which changes direction frequently and is not continuous. At some places where cliffs come up to the creek, the fence stops and begins again on the other side. Ground visibility was very good with 80% plus being normal.

Three isolated quartz flakes (IF1-3), an "Apache tear" (IF4), and one site were located during the survey (Figure 1 and 4). The three flakes require no comment. The isolated Apache tear (marekanite) is unexpected. It is split and presumably an artifact. The nearest sources of such material are at Vulture to the southeast and Burro Creek to the northwest.

The site, AZ N:13:51, is an artifact scatter on the terrace (?) at the confluence of Cottonwood Creek and Date Creek (Figure 2). Artifacts included one tabular knife fragment (fine volcanic), two unifacially flaked pieces (quartzite), thirty-one flakes (quartz - 9; quartzite - 6; chert - 2; chalcedony - 2; fine-medium volcanic - 2; unknown - 8), and 6 sherds. Sherds included a red-slipped bowl with Prescott Gray Ware-like temper. A fine-tempered sherd with a smudged and polished exterior, a gray sherd with very fine silver mica visible on the surface, a red-slipped sherd with fine temper, and two plain sherds too small to characterize. The three fine-tempered sherds could be Tizon Brown Ware, but I do not make such identification in the field.

A gully at the south edge eroded through a concentration of cobbles, some of which seem to be fire-cracked (Figure 3). Another gully to the east has a concentration of cobbles, but none were clearly of cultural origin (the terrace is made up partly of stream cobbles). Areas of dark soil are present, some of which might be cultural and some of which may come from mesquite debris. Some artifacts seem to be eroding out of the

ground, suggesting depth to the cultural deposit. The exact south boundary of the site could not be established because of dense mesquite.

## EVALUATION

The isolated artifacts are not National Register eligible. Site AZ N:13:51 is small, but has some evidence of depth and a diversity of ceramics. Except for some erosion at the south edge, site integrity is good. The site is considered to be eligible for the National Register of Historic Places under criterion d.

## RECOMMENDATIONS

The fence was placed through the northern, low-density area of site N:13:51. Fence stakes were pounded into the ground and no significant disturbance of cultural resources would have occurred (Figure 4). No further archaeological work is needed for this project. Should ground disturbing activities have to happen in the area of site N:13:51 in the future then monitoring or testing may need to occur to insure that the site is not impacted.

## REFERENCES

Bostwick, Todd W. (assembler)  
1988 *An Investigation of Archaic Subsistence and Settlement in the Harquahala Valley, Maricopa County, Arizona*. Northland Research, Flagstaff.

Braatz, Timothy  
2003 *Surviving Conquest: A History of the Yavapai Peoples*. University of Nebraska Press, Lincoln.

Khera, Sigrid and Patricia S. Mariella  
1983 Yavapai. In *Handbook of North American Indians, vol. 10 - Southwest*, edited by A. Ortiz, pp. 38-54. Smithsonian Institution, Washington, D. C.

Kroeber, A. L.  
1951 *A Mohave Historical Epic*. Anthropological Records 11(2). Berkeley.

Rice, Glen E. and Edward Dobbins  
1981 *Prehistoric Community Patterns in the Western Desert of Arizona*. ASU Anthropological Field Studies No. 2.

Stone, Connie L.  
1986 *Deceptive Desolation: Prehistory of the Sonoran Desert in West Central Arizona*. Arizona BLM Cultural Resource Series Monograph No. 1.

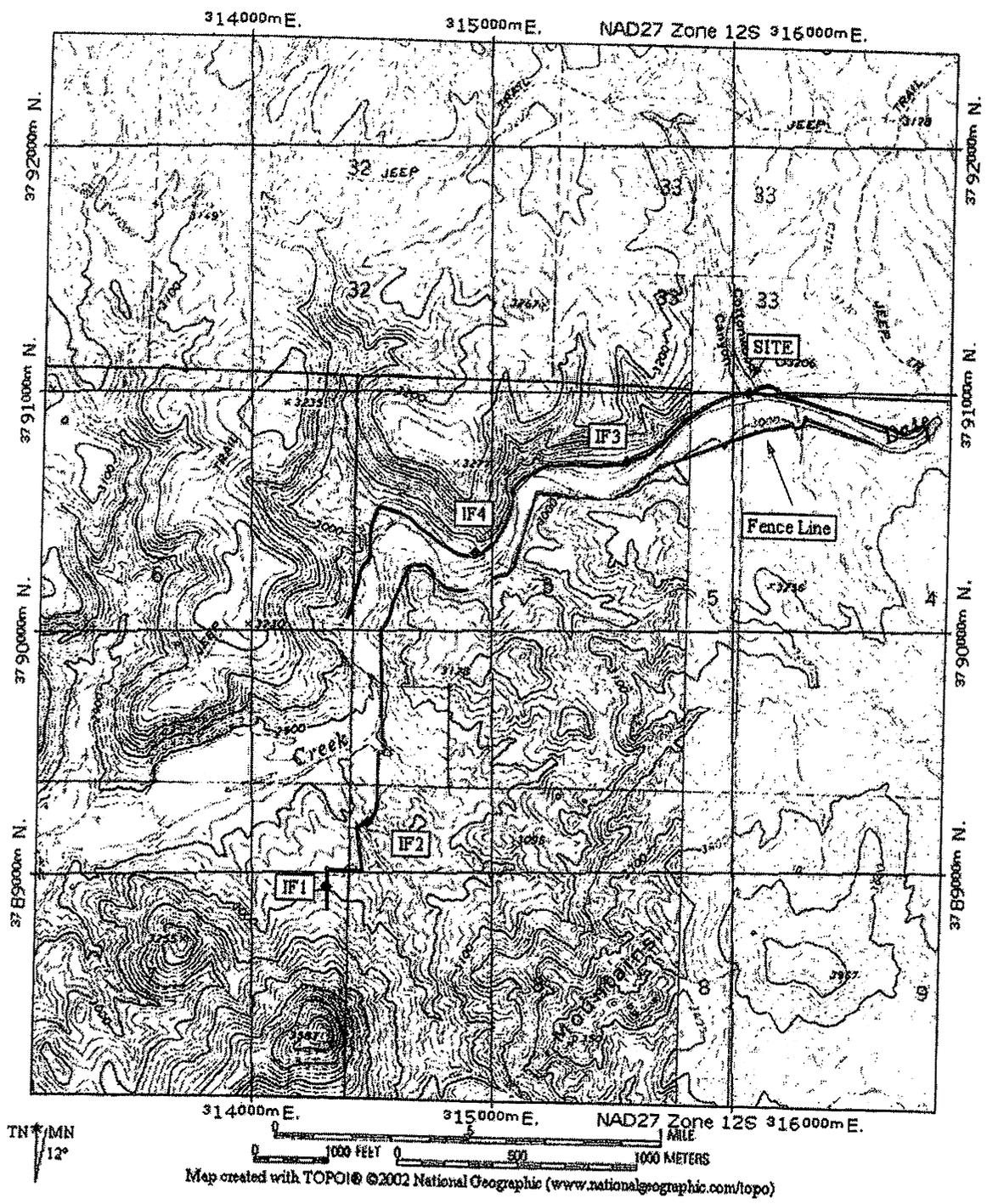


Figure 1. Project Area, Isolated Finds, and Site. From USGS 7.5 min O'Neill Pass and Date Creek Ranch quads. Shaded area is section of fence on patented land. All other parts of fence line are on State Trust land.

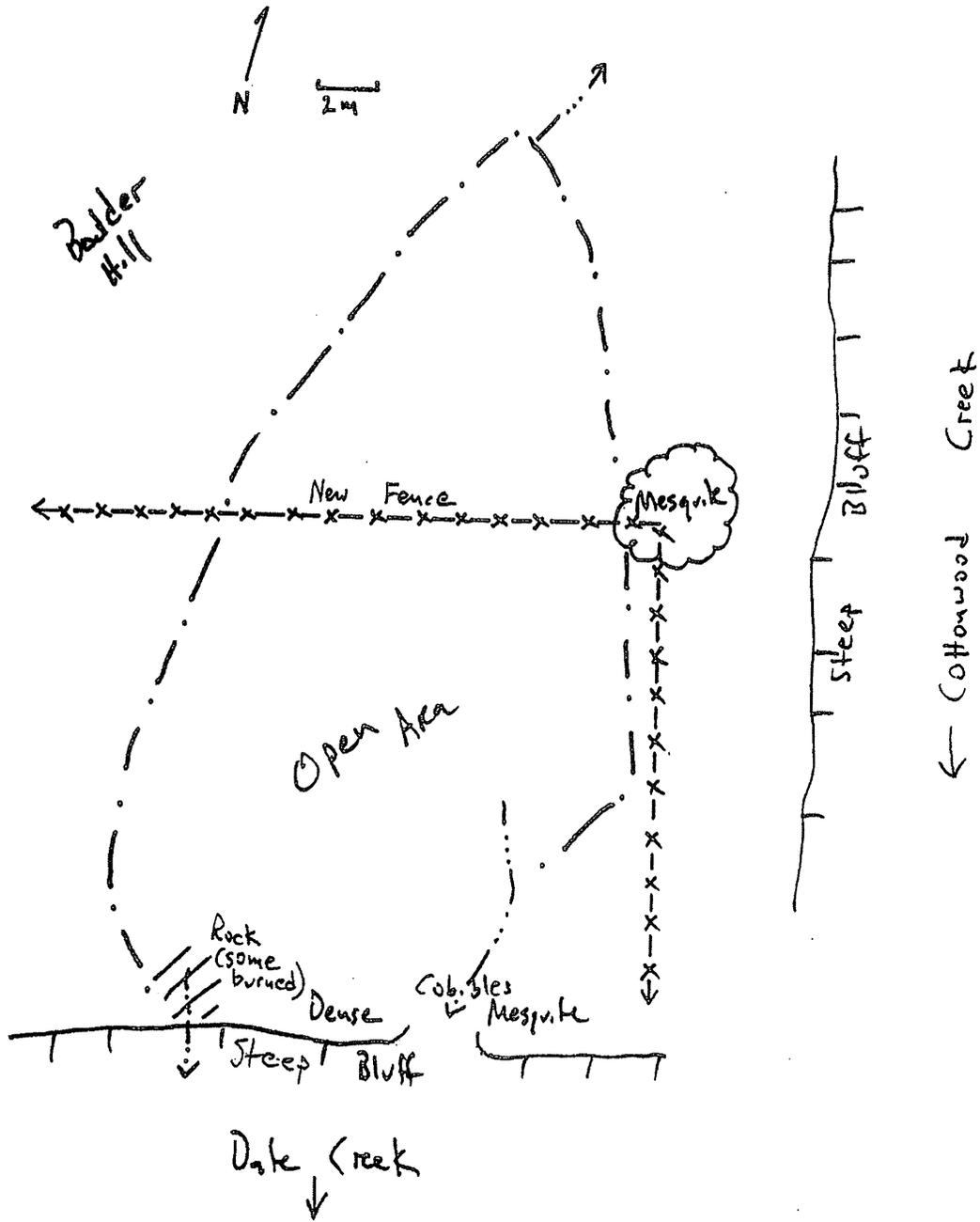


Figure 2. AZ N:13:51, plan view. Southern boundary of site uncertain because of dense mesquite.



Figure 3. AZ N:13:51, view east. Broken rock and cobbles in dark soil. Gully to right.



Figure 4. AZ N:13:51, overview looking southeast. Main area of site in open area behind fence.

ARIZONA STATE MUSEUM ARCHAEOLOGICAL SITE CARD

Side A

AZ N:13:51

ARIZONA STATE MUSEUM ARCHAEOLOGICAL SITE CARD

Field No: \_\_\_\_\_ Natl. Reg. Opinion: eligible  
 Recorders: Andrew L. Christenson  
 Recording Organization: Andrew L. Christenson Date Recorded: 7-2-08  
 Project Name: Date Creek Ranch fence  
 Site Name: \_\_\_\_\_  
 Land status (check one): PVT \_\_\_\_\_ CTY \_\_\_\_\_ CO \_\_\_\_\_ ST X TRIB \_\_\_\_\_ USFS \_\_\_\_\_ USFW \_\_\_\_\_  
 NPS \_\_\_\_\_ BLM \_\_\_\_\_ DOD \_\_\_\_\_ ACE \_\_\_\_\_ BOR \_\_\_\_\_ RTC \_\_\_\_\_  
 Owner/Agency name: Arizona State Land Department  
 Survey Colls: Y \_\_\_\_\_ N X Repository Institute: \_\_\_\_\_  
 Report Reference: \_\_\_\_\_

Mapname USGS: O'Neill Pass Series: 7.5 State: AZ County: Yavapai El: 2990 ft  
 Site Size: in Ft \_\_\_\_\_ or M X Length: 31+ Width: 16  
 How measured: EST \_\_\_\_\_ PACE \_\_\_\_\_ GPS \_\_\_\_\_ MAP \_\_\_\_\_ TAPE X  

	BL	TWN	RNG	SEC	SUBDIVISION
cntr UTM Z <u>12</u> E <u>316064</u> N <u>3791003</u>	<u>GS</u>	<u>11N</u>	<u>6W</u>	<u>33</u>	<u>SE SE SW</u>
peri UTM Z _____ E _____ N _____	_____	_____	_____	_____	_____
peri UTM Z _____ E _____ N _____	_____	_____	_____	_____	_____
peri UTM Z _____ E _____ N _____	_____	_____	_____	_____	_____
peri UTM Z _____ E _____ N _____	_____	_____	_____	_____	_____

 How were UTM's derived: USGS Map \_\_\_\_\_ GPS X

Site Description/Remarks:

An artifact scatter on the terrace (?) at the confluence of Cottonwood Creek and Date Creek. Artifacts included one tabular knife fragment, two unifacially flaked pieces, 31 flakes, and 6 sherds. Sherds included a red-slipped bowl with Prescott Gray Ware-like temper. The three other sherds that were large enough to characterize had finer temper and could be Tizon Brown Ware. A gully at the south edge eroded through a concentration of cobbles, some of which seem to be fire-cracked. Another gully has a concentration of cobbles, but it is unclear if this is a cultural feature. Areas of dark soil are present, some of which might be cultural. Some artifacts seem to be eroding out of the ground, suggesting depth to the cultural deposit. The exact south boundary of the site could not be established because of dense mesquite.

Agency Site:	Additional Documentation type	document location
Agency Proj. No: _____	_____	in _____
National Reg Rec: _____	_____	in _____
ASM Site No: <u>AZ N:13:51</u>	ASM Proj No.: <u>2008-0440</u>	ASM Permit No.: <u>2008-048b1</u>

ASM USE ONLY	Class:	Within AZ	(ASM)	Corrections:
QP _____	_____	_____	_____	_____
QP _____	Biblio Ref. _____	Contains AZ _____	(ASM)	_____
QP _____	Acc.No _____	Plotted _____ / _____ / _____	by _____	_____
		AZSITE DE _____ / _____ / _____	by _____	_____

ARIZONA STATE MUSEUM ARCHAEOLOGICAL SITE CARD

Side C

AZ N:13-51

CARD

Depositional Context: (choose as many as apply):

- (1) Open, no depth
- (2) Open, depth
- (3) Open, depth unknown
- (4) Open, exposed only in profile
- (5) Rockshelter, no depth
- (6) Rockshelter, depth
- (7) Rockshelter, depth unknown
- (8) Cave, no depth
- (9) Cave, depth
- (10) Cave, depth unknown

Topo. Setting: terrace (?) above Date Creek

Vegetation: mesquite, creosote bush, prickly pear, cholla

Geology/soils: alluvium

Site Condition: excellent, except for some natural erosion; fence through northern 1/3

Site Type (choose one):  (a) Artifact Scatter (No other features visible on the surface)  
 (b) Features with associated artifacts  (c) Features with NO associated artifacts

Assemblage Composition (indicate quantities as counts, estimated ranges, "P" for types known only to be present, "0" for types not seen at the site.)

<u>6</u> Prehistoric Ceramic	<u>P</u> FCR	<u>0</u> Glass	<u>0</u> Animal remains/artifacts
<u>34</u> Chipped Stone	<u>0</u> Shell	<u>0</u> Metal	<u>0</u> Plant remains/artifacts
<u>0</u> Groundstone	<u>0</u> Historic Ceramic	<u>0</u> Historic Wood	<u>0</u> Human remains

Diagnostics (indicate quantity of cultural/temporal/functional types as counts, estimates, or "P")

<u>1</u> Prescott Red ??	_____	_____	_____	_____
<u>P</u> Tizon Brown Ware ??	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Assemblage Remarks:

ceramic identification uncertain

Feature Data: (Complete one feature record for each type of feature recorded for this site.)

Feature No. 1	Name	Count	Use	Culture	Age	Period/Phase
	<u>91 Rock Concentration</u>	<u>2</u>	<u>1</u>	<u>3</u>	<u>11</u>	_____
Feature 1 Remark: One of these is probably cultural; the other is uncertain.						

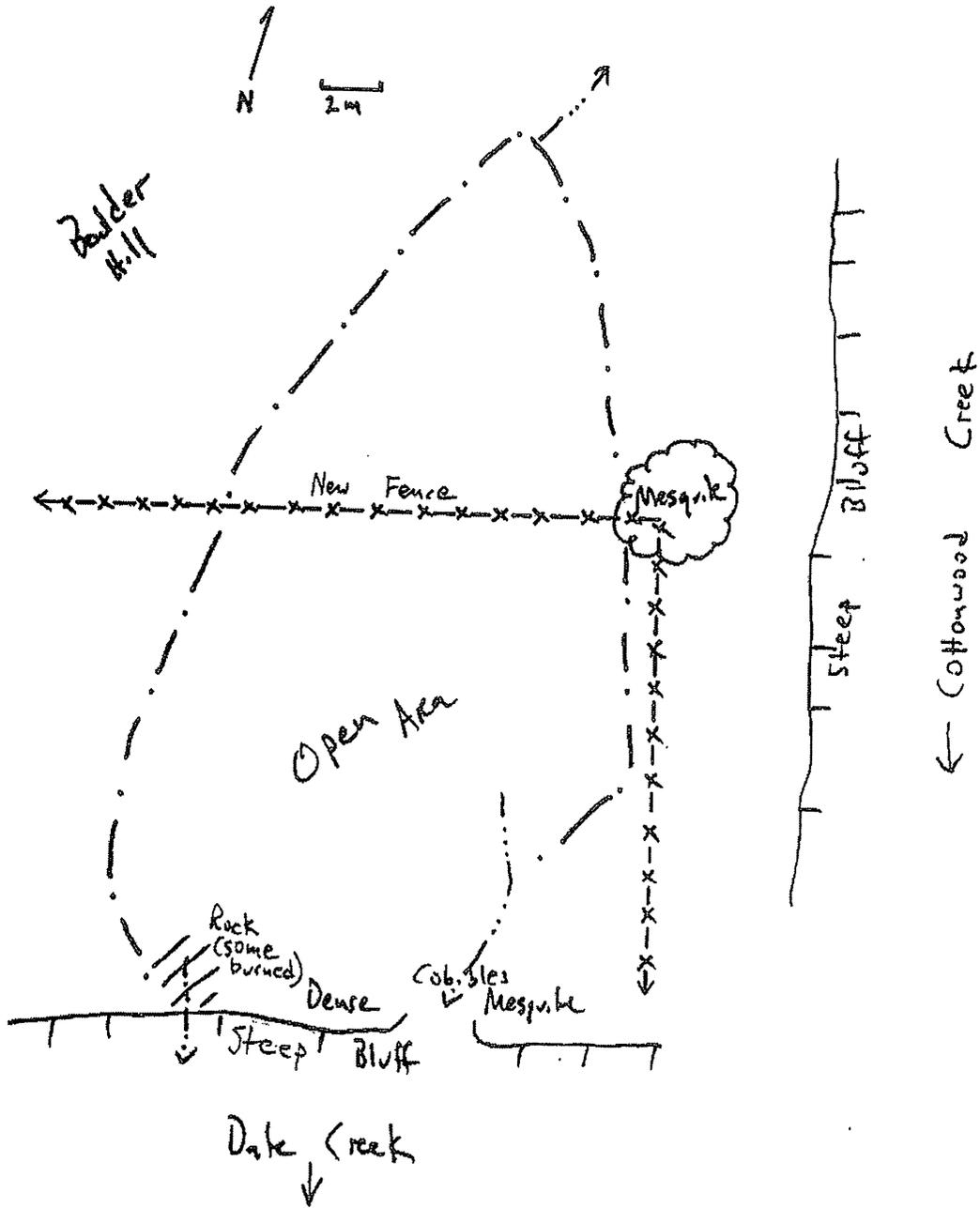
Feature No. 2	Name	Count	Use	Culture	Age	Period/Phase
Feature 2 Remarks:						

Side E

AZ N 13.5 (ASM)

ARIZONA STATE MUSEUM ARCHAEOLOGICAL SITE CARD

Planview/Profile



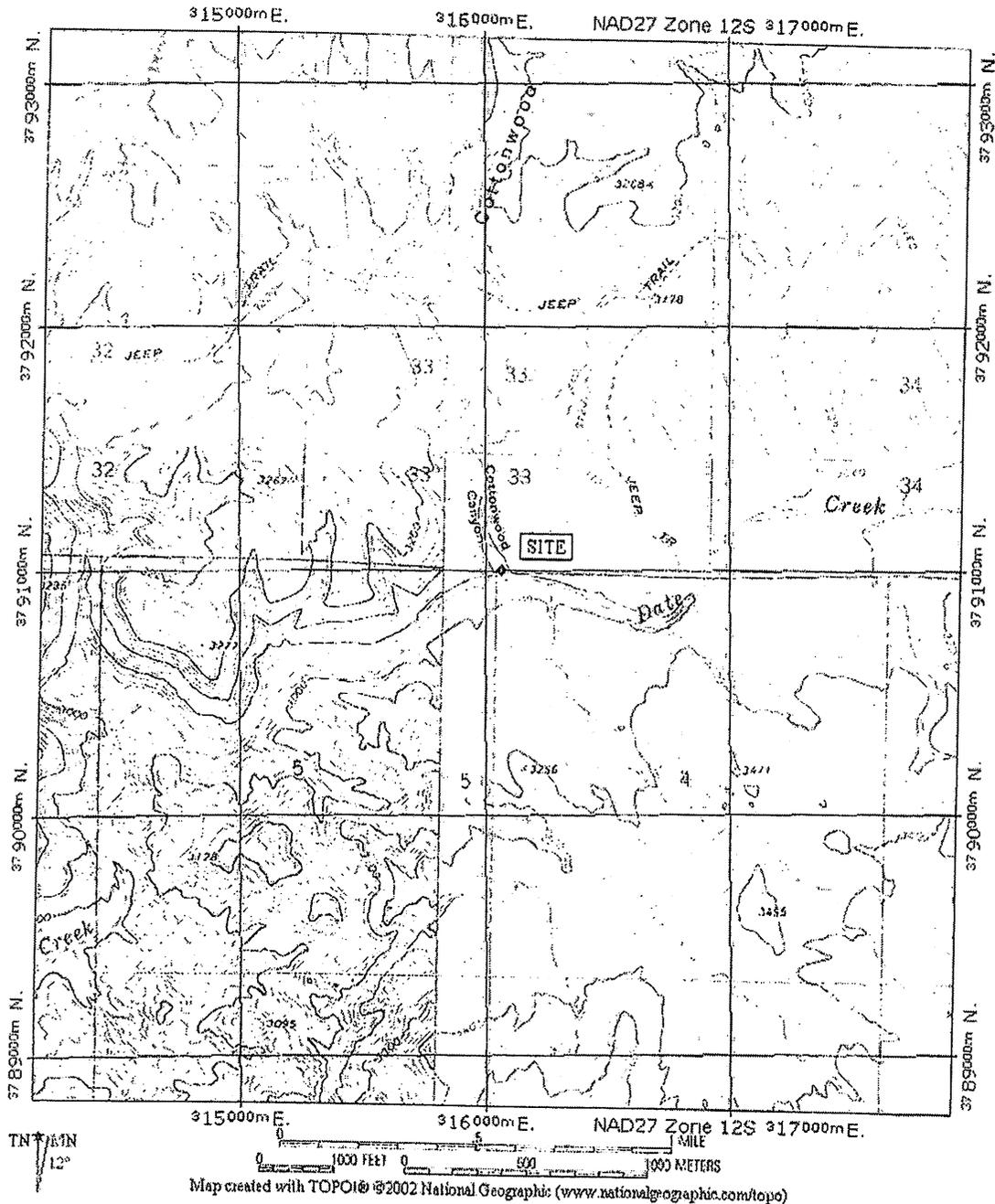
- KEY:
- Site Boundary
  - Drainage
  - Fence
  - Road
  - Artifact Concentration
  - Indicate North
  - Indicate Scale

Side F

AZ N 13 S 1 (ASM)

ARIZONA STATE MUSEUM ARCHAEOLOGICAL SITE CARD

Site Location (Include scale)



# **Date Creek Riparian Restoration Project**

## **Key Personnel**

Alvin Medina will serve as technical specialist to provide implementation specifications and field project supervisor of restoration treatments. He will be involved in writing the implementation plan as well as supervision of treatment work. Mr. Medina is an Ecologist/Rangeland Management Specialist with more than thirty-seven years of experience in riparian and wetland ecology/restoration, wildlife ecology and range management. He retired from the USFS where he worked at the Rocky Mountain Research Station, Flagstaff for over 32 years.

Stefan Wolf will serve as project coordinator. He will be administering the grant, acquire all necessary permits, and write the progress and final reports. He will work closely with the AZSLD, AZGFD, NRCS, and volunteer groups. Stefan has administered LCCGP and CREIP grants for the Knight Family on Date Creek Ranch and on the Coconino National Forest. He has also supervised EQIP, AZGFD and USFWS funded projects for the ranch in the past.

He is a general contractor with 30 years experience in the trades, supervising large work crews and operating light and heavy equipment. He also has over 15 years of experience with range management. His training includes intensive Holistic Resource Management.





Figure 1. This stand of tamarisk shows typical mature trees as well as younger saplings within the active channel. Mature stands require extensive excavation of debris to get to the main root stem for treatment and often require retreatments.



Figure 2. This tamarisk became established within the active channel and resulted in creating a levy, which further induced channel braiding.



Figure 3. This photo illustrates channel braiding as a result of disequilibrium between flow and bedload. The encroachment of woody vegetation limits the freeboard area required of the stream to properly process bedload and establish a single flow channel.

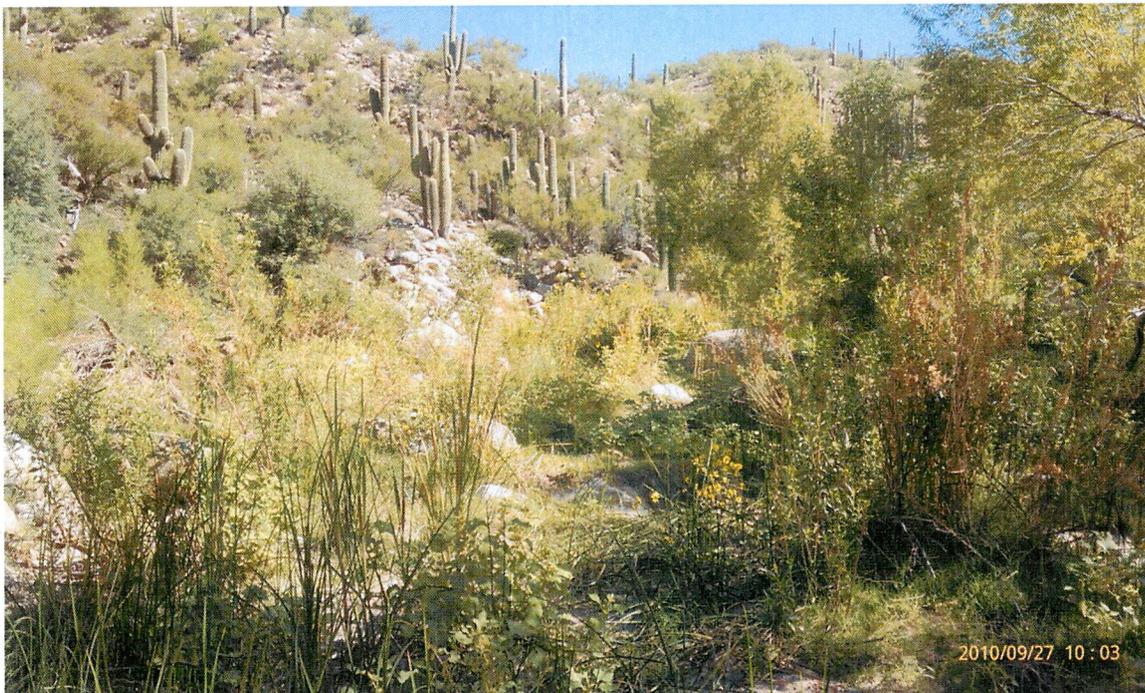


Figure 4: This photo illustrates the transition between the riparian habitats and the adjacent desert scrub. These are invaluable for wildlife because of their structural diversity.



Figure 5: This photo illustrates some parts of Date Creek that contain elements of its diversity, despite the impoverished herbaceous flora. Some work is essential to protect these habitats and enhance their potential to produce stable habitats.



Figure 6: This photo illustrates the potential for the stream to achieve a sinuous and continuous flow within a stable active channel and floodplain. Except for encroaching woody plants and a wider meander pattern, the site shows good potential as a reference area.



Figure 7: This photo illustrates a different phase of channel development where knot grass is acting upon the bed of the stream to stabilize the bedload. While this is a good thing, it's not durable enough to withstand medium to heavy floods. The willows also exemplify the encroachment on the freeboard and need to be removed to assure resilience.

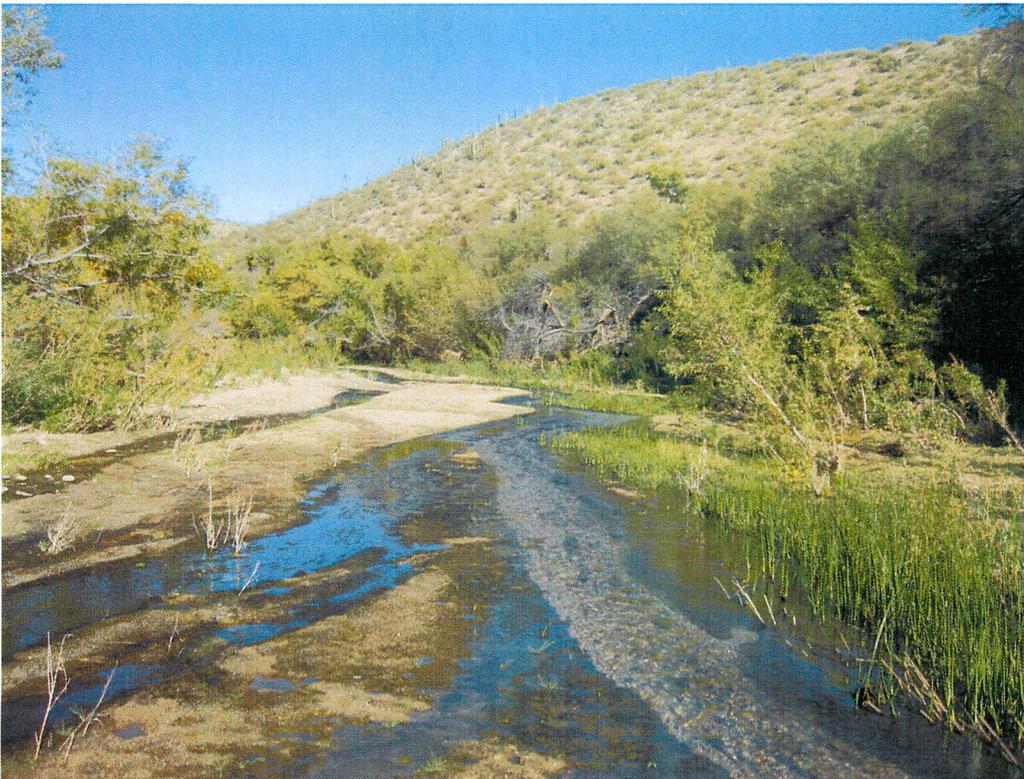


Figure 8: This photo illustrates differing site conditions on another reach where woody plants are encroaching on the active floodplain. The channel is still braided but has a more definitive tendency to evolve to a single sinuous channel. The photo also shows the monoculture of aquatic plants that singly can't produce stability and resilience.



## Monitoring

The objectives of monitoring are to determine (1) the relative changes in the physical development of the stream channel from channel treatments (structural), (2) the relative changes in vegetation (cover, frequency, constancy) from vegetation treatments, and (3) to determine the relative success in mortality from removal of invasive plant treatments.

Monitoring is designed to obtain enough data to assess the relative effectiveness of selected treatments, e.g. invasive plant removal, plant establishment. Both qualitative and quantitative standardized methods will be employed. Qualitative methods include, but not limited, permanent photo points and field reconnaissance to ascertain progress and guide additional efforts to enhance treatment effects that promote channel stability and vegetation establishment. Quantitative methods include, but not limited, channel morphology transects (Rosgen 1996, Long and Medina 2012) and substrate particle-size sampling (Bunte and Apt 2001) to establish pre-treatment (reference) conditions and post-treatment to assess changes in channel development, e.g. aggradation, degradation, aquatic habitat and streambank plant density. Of importance is the establishment of stable streambanks. A minimum of 2 transects will be placed within each designated reach to account for inter-reach variability, since each reach may respond differently to treatments and flow events. Reaches will be selected using guidance specified in Harrelson et al. (1994) and Rosgen (1998). Channel stability can be assessed using Rosgen's methodology (Rosgen 2001a) and channel erosion or aggradation (development) as per Rosgen (2001b). Documentation of channel development, braided to single channel) will be done using Rosgen's stream classification system (Rosgen 1996). Extensive measurements will not be taken, since this is not a research project, but enough measurements will be taken to be able to assess progress. Vegetation measurements will be taken using a modified Daubenmire sampling approach as described in Medina (2012), but limited in scope to adequately ascertain changes in plant cover, frequency and constancy. Repeat photo documentation is adequate to document mortality of invasive plant treatments. In addition, other repeat photos will be taken of pre-established photo points and other key locations to document changes in habitat conditions.

### References

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Medina, A.L. 2012. Chapter 6- Woody vegetation of the upper Verde River. IN: Neary, D.G.; Medina, A.L.; Rinne, J.N. (Editors). The Upper Verde River: Ecology, Fish Biology, Hydrology, and Geomorphology. USDA Forest Service, Rocky Mountain Research Station, General Technical Report RMRS-GTR-XX: Fort Collins, CO.

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Rosgen, David L., 1998. The Reference Reach-A Blueprint for Natural Channel Design. In: Proceedings of Amer. Soc. Civil Engineers, Restoration of Wetlands and Rivers, Denver, Colorado.

Rosgen, David L., 2001a. A Practical Method of Computing Streambank Erosion Rate, 7th Federal Interagency Sediment Conference, March 24-29, Reno, Nevada.

Rosgen, D.L., 2001b. A Stream Channel Stability Assessment Methodology. 7th Federal Interagency Sedimentation Conference. March 25-29. Reno, Nevada.

August 26, 2013

Re: Date Creek Riparian Restoration Project

Kimberly Knight  
Date Creek Ranch  
P.O. Box 1484  
Wickenburg, AZ 85358

Dear Kimberly,

I am writing this letter on behalf of our family and I am pleased to inform you that we chose your AWP Date Creek Restoration Project to donate in professional services in kind \$6400, plus the equivalent of \$500 in potted aquatic plants for transplants. The Medina Family is happy to assist you with a valuable project of significance to our society, so we want to join hands with your organization in making a difference.

You may know that we like to support ranchers who are proactive and want to make a difference in conservation of riparian areas. Kindly consider this offer.

Thank you for the opportunity to be part of your Team.

Yours sincerely,

A handwritten signature in blue ink that reads "Alvin Medina". The signature is fluid and cursive, with the first name "Alvin" and the last name "Medina" clearly legible.

Alvin and Penny Medina and Family  
Medina Consulting , LLC  
3290 S. Little Drive  
Flagstaff, AZ 86005

Janice K. Brewer  
Governor

Vanessa P. Hickman  
State Land Commissioner

August 19, 2013

Re: Date Creek Ranch, Arizona Water Protection Fund Grant

To Whom It May Concern:

I would like to take this opportunity to offer my full support to the Date Creek Ranch in their effort to acquire funding through the Arizona Water Protection Fund Grant to improve riparian conditions along Date Creek.

I am responsible for overseeing roughly 2.5 million acres of State Trust land in Northern Arizona and have been actively monitoring conditions on the Date Creek Ranch for the last three years, both in the uplands and the riparian areas. In my professional opinion, I believe that the Date Creek Ranch is one of the best managed ranches in Arizona. Their continuous effort over the years to a healthy ecosystem has resulted in exceptional rangeland conditions, despite the ongoing drought.

The Date Creek Ranch's desire to improve riparian conditions along Date Creek by removing invasive species and returning the stream channel to a more natural flow pattern is greatly needed. Due to the large area where this work is needed it would only be possible through the support of outside grant opportunities. Therefore, I believe that the Date Creek Ranch would be the ideal candidate to receive the Arizona Water Protection Fund Grant.

Sincerely,



Chris Lowman  
Range Resource Area Manager  
Prescott Field Office



THE STATE OF ARIZONA  
**GAME AND FISH DEPARTMENT**

5000 W. CAREFREE HIGHWAY  
PHOENIX, AZ 85086-5000  
(602) 942-3000 • WWW.AZGFD.GOV

REGION VI, 7200 E. UNIVERSITY DRIVE, MESA, AZ 85207

**GOVERNOR**

JANICE K. BREWER

**COMMISSIONERS**

CHAIRMAN, J.W. HARRIS, TUCSON

ROBERT E. MANSELL, WINSLOW

KURT R. DAVIS, PHOENIX

EDWARD "PAT" MADDEN, FLAGSTAFF

**DIRECTOR**

LARRY D. VOYLES

**DEPUTY DIRECTOR**

TY E. GRAY



8/22/2013

Arizona Water Protection Fund

Dear Sir or Madam:

The Arizona Game and Fish Department has partnered with the Date Creek Ranch on a number of conservation projects. Through stewardship agreements, the Department has worked with Knight's to improve wildlife habitat, distribution and even reintroduce an extirpated species along a perennial stretch of Date Creek. Specifically, the Knight's have utilized Department funding to purchase and install fencing to exclude and manage cattles use of sensitive riparian habitats along Date Creek. The Department has also successfully transplanted beaver back to Date Creek as further effort to restore historical fauna and function of the waterway. Under the management of the Knight family, Date Creek has undergone a radical transformation to what is now a lush and vibrant riparian corridor representative of the stewards that brought the creek back to life. Not to be overlooked, the Knight's have accomplished this during periods of intense drought requiring them to overcome increasing limited water supplies. Most recently, the Department has partnered with the Knight's to refurbish active stock tanks to increase water storage capacity and install livestock exclusionary fencing to increase production of waterfowl nesting habitat, cover and forage of aquatic and semi aquatic vegetation. Without the Knight's diligence and devotion as stewards of the land, none of these improvements would have been possible. Due to the success of past projects and the Knight's leadership in planning, adapting, implementing and managing projects the Department looks forward to future landscape level planning and habitat improvements on the Date Creek Ranch for the benefit of wildlife and future generations.

Sincerely,

Curtis Herbert

Wildlife Manager III

United States Department of Agriculture



Natural Resources Conservation Service  
8841 E. Florentine Rd, Suite C  
Prescott Valley, Arizona 86314

*Helping People  
Help the Land*

Phone: (928) 759-9301 x 2  
Fax: (928) 759-9284

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August 19, 2013

Arizona Water Protection Fund

To Whom it May Concern,

I am writing a letter of support for the Date Creek Riparian Project. Natural Resources Conservation Service (NRCS) has been working with Date Creek Ranch for several years and the Ranch is committed to conservation and doing what is best for the land.

NRCS has recently helped with the development of a Conservation Plan and truly look forward to working with the ranch to get conservation on the ground and improving our natural resources. Riparian health was one of the items that was evaluated during the planning process. The proposed practices will help address the resource concerns that were identified in that planning process. The Ranch has teamed with NRCS to address salt cedar in the past, and have shown a commitment to continue to move forward in this effort.

Date Creek is a very unique green ribbon in the Arizona landscape and every effort should be made to preserve this special area. The conservation efforts will add in the benefit of those resources and Date Creek Ranch is a steward of the land and will make the effort needed to accomplish the intended benefits for Date Creek. NRCS looks forward to helping Date Creek Ranch in to the future.

Sincerely,

A handwritten signature in black ink, appearing to read "Kresta L. Faaberg".

Kresta L. Faaberg  
District Conservationist

The Natural Resources Conservation Service provides leadership in a partnership effort to help people conserve, maintain, and improve our natural resources and environment.

An Equal Opportunity Provider and Employer

# Letter of Support

Arizona Water Protection Fund Commission

To Whom It May Concern:

We, the Date Creek Ranch Holistic Team, have partnered and supported Date Creek Ranch in their efforts to improve and conserve Date Creek riparian area and the surrounding watersheds since 1984.

We are a collaborative Team represented by people from all walks of life. Due to our diverse backgrounds we bring a variety of ideas and support to Date Creek Ranch.

Date Creek Ranch would be the ideal candidate to receive funding through the Arizona Water Protection Fund Grant for their riparian restoration project. This family ranch is truly committed to conservation and habitat improvement.

In the past we have participated in monitoring and erosion control efforts on the rangelands as well as fencing and water projects. We are also involved in helping Date Creek Ranch make better holistic decisions in planned grazing and financial planning.

Sincerely



Jeff Spikes, Brinker International

Brent Shaw, Global Organics  
Ann McDermott  
April and Pat Medford, Circle Mountain  
Counseling  
Dennis Coffmann, Raku Artist  
Chris Lowman, AZSLD  
Don Charles & Deb Gessner, D-squared  
Ed Grose, Headquarters West  
Eric Knight, Family  
Jean & Eric Schwennesen, Cold Creek Ranch  
Glen Knight, Family  
Jeff Schalau, Extension agent  
Kali Holtschlag, Adams Ranch  
Kathy Almeida  
Mary Ellen & Kevin Hale, Granite Alley Garage  
Matt Pierce, Arizona Game & Fish retired  
Rosalie & Frank Lechner  
Scott Knight, Family  
Sue Johnson, Family School  
Mike Gengle, Dentist

Pam & Willy Willis  
Alan & Diana Kessler, Orme Ranch  
Paulino Jaquez  
Ryan Barteau  
Amberley Barteau  
Curtis Herbert, AZGF  
Bob Mathews, Yavapai College  
Jim Redman, Consultant  
Steve Rich, Signature Rock Ranch  
Nancy Timper, Timper Arts  
Cheryl Alvarado  
Randy Lopez

John A. Kava  
1195 Solar Heights Drive  
Prescott, Arizona 86303  
August 23, 2013

Arizona Water Protection Fund  
3550 North Central Avenue  
Phoenix, Arizona 85012

To Whom It May Concern:

I fully support Date Creek Ranch and their project to restore Date Creek. I have worked with the Knights while employed by the Natural Resource Conservation Service (NRCS). Together we inventoried the various ecological sites of the ranch uplands to determine current state of the ranch and identified resource concerns. Through this collaboration we developed a conservation plan for the upland portion of the ranch.

Date Creek Ranch has a history of cooperation with NRCS and has completed various projects to improve the conservation of their ranch. The relationship I had with the Knights, while an employee of NRCS, continues today as we have a common goal of being good stewards of the land. I firmly believe their commitment to good conservation management practices has allowed them to continue doing what they love without damaging the resource they rely on to do it.

Sincerely,

A handwritten signature in black ink that reads "John A. Kava". The signature is written in a cursive style with a large, looping initial "J".

John A. Kava  
Rangeland Management

Cub Scout Pack 242  
Jennifer Hirsch  
8831 N. 17<sup>th</sup> Lane  
Phoenix, AZ 85021  
August 25, 2013

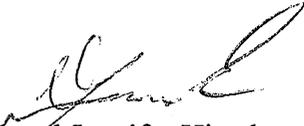
Arizona Water Protection Fund  
3550 North Central Avenue  
Phoenix, AZ 85012

To the Executive Director and Commissioners of the Arizona Water Protection Fund:

We are writing this letter on behalf of Kimberly Knight and the Date Creek Ranch. Over the past few years, Cub Scout Pack 242 has had the privilege of working with Kim at Date Creek Ranch. The kids in the pack benefitted not only from the experience of providing a community service to the ranch, but also seeing how a working ranch and conservation can go hand in hand. Date Creek provides a tangible example to the kids and their families of ranching (part of Arizona's heritage) as well as a beautiful desert riparian area. These are experiences that cannot be found in a museum or text book. After "hard labor" painting picnic benches and having lunch, the kids and their parents were treated to a hike up the Date Creek to see the evidence of the beaver population that now lives at Date Creek Ranch, thanks to the stewardship of the Knights over the past 47 years. Many of the kids, who come from Central Phoenix, were amazed at the gnawed tree trunks and beaver dams under construction. On another trip to the ranch, the kids marveled at the sight of wild turkeys, which returned to the ranch as the riparian area began to flourish. It is evident that the Knights take their stewardship of this resource seriously as they run the ranch with as little environmental impact as possible, functioning completely on solar power.

Our Cub Scout Pack looks forward to future opportunities to help Date Creek Ranch in their endeavors to be good stewards of the land and the Date Creek.

Sincerely,



Fred and Jennifer Hirsch  
Cub Scout Pack 242

STATE LAND DEPARTMENT  
STATE OF ARIZONA

GRAZING LEASE

Lease No. 05-3320

THIS GRAZING LEASE is entered into by and between the State of Arizona "Lessor" by and through the Arizona State Land Department and

KNIGHT FAMILY TRUST

as "Lessee". In consideration of the payment of rent and of performance by the parties of each of the provisions set forth herein, the parties agree as follows:

ARTICLE 1  
SUBJECT LAND

1.1 Lessor hereby leases to Lessee for the term, at the rent, and in accordance with the provisions set forth herein, the Subject Land described in Appendix A attached hereto ("Subject Land") for the uses and purposes specified in Article 4.

1.2 Lessee makes use of Subject Land "as is" and Lessor makes no express or implied warranties as to the physical condition of the Subject Land.

ARTICLE 2  
TERM

2.1 The term of this Lease commences on October 30, 2012 and ends on October 29, 2022, unless terminated earlier as provided in this Lease.

ARTICLE 3  
RENT

3.1 Lessee shall pay rent to Lessor for the use and occupancy of the Subject Land during the term of this Lease without offset or deduction and without notice or demand, as established, on an annual basis.

IN WITNESS HEREOF, the parties hereto have signed this Lease effective the day and year set forth previously herein.

STATE OF ARIZONA, LESSOR  
Arizona State Land Commissioner

By: *Konnie J. Garcia* 11/20/2012  
Date

(SEAL)

KNIGHT FAMILY TRUST

Lessee

*Alan Knight* 11/13/12  
Authorized Signature Date

*Box 1484*  
Address

*Wickenburg* *Coz* *85358*  
City State Zip



WHEN RECORDED, RETURN TO:



B-4441 P-410  
Page: 1 of 4  
0CD 4064334



Gallagher & Kennedy, P.A.  
2575 East Camelback Road  
Phoenix, Arizona 85016-9225  
Attn: David L. Haga, Esq.

MAIL TAX STATEMENTS TO:

Phillip K. Knight  
Karin M. Rasch-Knight  
P. O. Box 1525  
Wickenburg, AZ 85358

**QUIT CLAIM DEED**

For the consideration of Ten Dollars, and other good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the undersigned **PHILLIP K. KNIGHT** (the "GRANTOR"), does hereby quit claim to **PHILLIP K. KNIGHT and KARIN M. RASCH-KNIGHT, TRUSTEES, OR THEIR SUCCESSORS IN TRUST, OF THE KNIGHT FAMILY TRUST DATED DECEMBER 5, 2005, and any amendments thereto** (the "GRANTEE"), all of Grantor's right, title and interest in and to the following described parcel of real property situated in Yavapai County, Arizona:

LEGAL DESCRIPTION ATTACHED HERETO AS EXHIBIT  
"A" AND HEREBY INCORPORATED BY REFERENCE.

Pursuant to A.R.S. § 33-404, the names and addresses of the beneficiaries of the Trust are:

Phillip K. Knight  
Karin M. Rasch-Knight  
P. O. Box 1525  
Wickenburg, AZ 85358

This transfer is exempt from affidavit and filing fees under A.R.S. § 11-1134(B)(3).

DATED this 25<sup>th</sup> day of September, 2006.

GRANTOR:

*Phillip K. Knight*  
\_\_\_\_\_  
PHILLIP K. KNIGHT



STATE OF ARIZONA )  
 ) ss.  
County of Maricopa )

The foregoing instrument was acknowledged before me this 25<sup>th</sup> day of September, 2006, by PHILLIP K. KNIGHT, Grantor.

*Jean A. Lacroix*

Notary Public

My Commission Expires:



**SEAL**

“Unofficial Copy”



EXHIBIT "A"

(Legal Description)

PARCEL 1

That part of the East Half of the Northwest Quarter, and Lots One (1) and Two (2), Section Seven (7), Township Ten (10) North, Range Seven (7) West of the Gila and Salt River Base and Meridian, Yavapai County, Arizona, more particularly described as follows:

BEGINNING at a point 317 feet South of the Northwest corner of said Section 7 on the West Section line of said Section 7, running thence 1500 feet East and parallel to the South Section line of said Section 7 to a point; thence 2323 feet South and parallel to the West Section line of said Section 7 to a point in the South line of said Northwest Quarter of Section 7; thence West a distance of 1500 feet parallel to the North Section line of said Section 7 to a point in the West line of said Northwest Quarter, thence North a distance of 2323 feet parallel to the East Section line of said Section 7 to the POINT OF BEGINNING.

SUBJECT TO: Easements and rights of way for roads, canals, laterals and ditches referred to in Deed dated June 26, 1945, recorded in Book 185 of Deeds, page 132.

PARCEL 2

That portion of the North Half of Section Fourteen (14), Township Ten (10) North, Range Eight (8) West, Gila and Salt River Base and Meridian, Yavapai County, Arizona, described as follows:

BEGINNING at the East quarter corner of said Section 14; thence North along the East boundary line of said Section a distance of 346 feet, thence 126 feet West and parallel to the East mid-section line of said Section, thence South 346 feet parallel to the East boundary line of said Section to a point on the South boundary line of said North half of said Section 14, thence East along the South boundary line of said North half of said Section 14 to the POINT OF BEGINNING.

PARCEL 3

In Township Ten (10) North, Range Seven (7) West of the Gila and Salt River Base and Meridian.

The Southwest Quarter of the Southwest Quarter of Section Five (5):

The South Half of the Southeast Quarter, the Southeast Quarter of the Northwest Quarter, the East Half of the Southwest Quarter, the Northwest Quarter of the Southeast Quarter, and Lots Three (3), Five (5), Six (6) and Seven (7), all in Section Six (6);



The Northwest Quarter of the Northeast Quarter, the East Half of the Northwest Quarter, and Lots One (1) and Two (2), all in Section Seven (7):

EXCEPT that part of the East Half of the Northwest Quarter, and Lots One (1) and Two (2), Section Seven (7), Township Ten (10) North, Range Seven (7) West of the Gila and Salt River Base and Meridian, more particularly described as follows:

BEGINNING at a point 317 feet South of the Northwest corner of said Section 7 on the West Section line of said Section 7, running thence 1500 feet East and parallel to the South Section line of said Section 7 to a point; thence 2323 feet South and parallel to the West Section line of said Section 7 to a point in the South line of said Northwest Quarter of Section 7; thence West a distance of 1500 feet parallel to the North Section line of said Section 7 to a point in the West line of said Northwest Quarter; thence North a distance of 2323 feet parallel to the East Section line of said Section 7 to the POINT OF BEGINNING

Unofficial Copy

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