

ANNUAL REPORT
2004
Roosevelt Habitat Conservation Plan
Salt River Project



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* Locations of endangered species are sensitive data considered confidential by U.S. Fish and Wildlife Service and therefore are omitted from this report. Management agencies requiring this information can contact SRP or the Arizona Ecological Field Services Office of U.S. Fish and Wildlife Service to receive this information.

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I. INTRODUCTION

In February 2003, the U.S. Fish and Wildlife Service (FWS) issued an Incidental Take Permit (ITP) pursuant to Section 10(a)(1)(B) of the Endangered Species Act of 1973 (16 U.S.C. 1531-1544, 87 Stat. 884), as amended, to Salt River Project (SRP) for southwestern willow flycatcher (*Empidonax traillii extimus*) (flycatcher), yellow-billed cuckoo (*Coccyzus americanus*) (cuckoo), bald eagle (*Haliaeetus leucocephalus*) and Yuma clapper rail (*Rallus longirostris yumanensis*). The activity covered by the ITP is the continued operation by SRP of Roosevelt Dam and Lake up to an elevation of 2,151'. The ITP is conditioned upon SRP's implementation of the Roosevelt Habitat Conservation Plan ("Roosevelt HCP") (Salt River Project 2002).

The Roosevelt HCP provides measures to minimize and mitigate incidental take of the four species listed above "to the maximum extent practicable and ensures that incidental take will not appreciably reduce the likelihood of the survival and recovery of these species in the wild" (FWS 2002). Mitigation efforts focus primarily on the acquisition and management of riparian habitat. Additional habitat conservation measures include the protection and management of habitat at Roosevelt Lake, acquisition of water rights for maintenance of riparian habitat and acquisition of buffer lands to benefit riparian habitat.

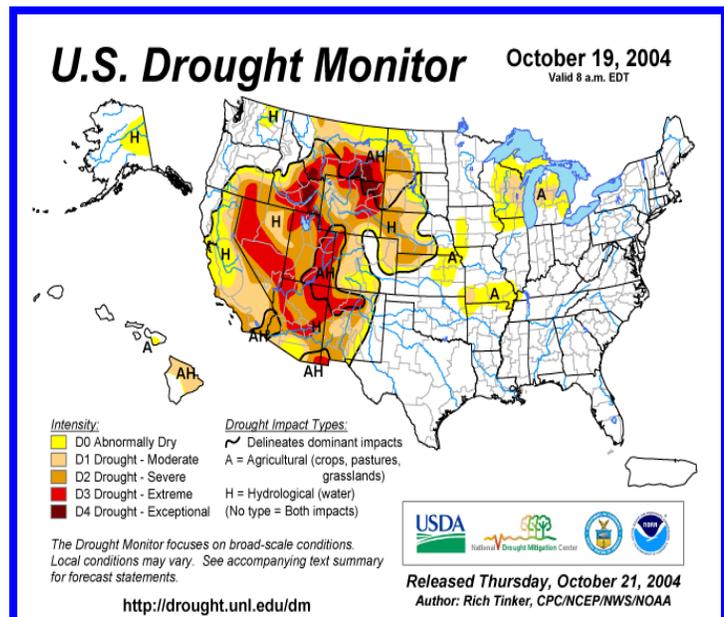
SRP submits this Annual Report to the FWS, Bureau of Reclamation (USBR) and the Tonto Basin District Office of the Tonto National Forest (TNF) as part of the reporting requirements of the Roosevelt HCP. The report covers all activities relating to the Roosevelt HCP from November 1, 2003 through November 1, 2004, including management activities, monitoring results, status reports and future action items on mitigation properties.

II. ROOSEVELT LAKE AREA

A. Summary of Reservoir Operations – Water Year, 2004

The greatest influence upon reservoir operations at Roosevelt remains the continuing drought affecting the North American continent. The Southwest, and Arizona in particular, remains firmly in its grasp. The last 9 years have been drier than normal. Since 1996, only the winter of 1998 produced above normal precipitation. For the Water Year ending on September 30, 2004, the watershed providing runoff to Roosevelt Lake received just 65% of normal precipitation.

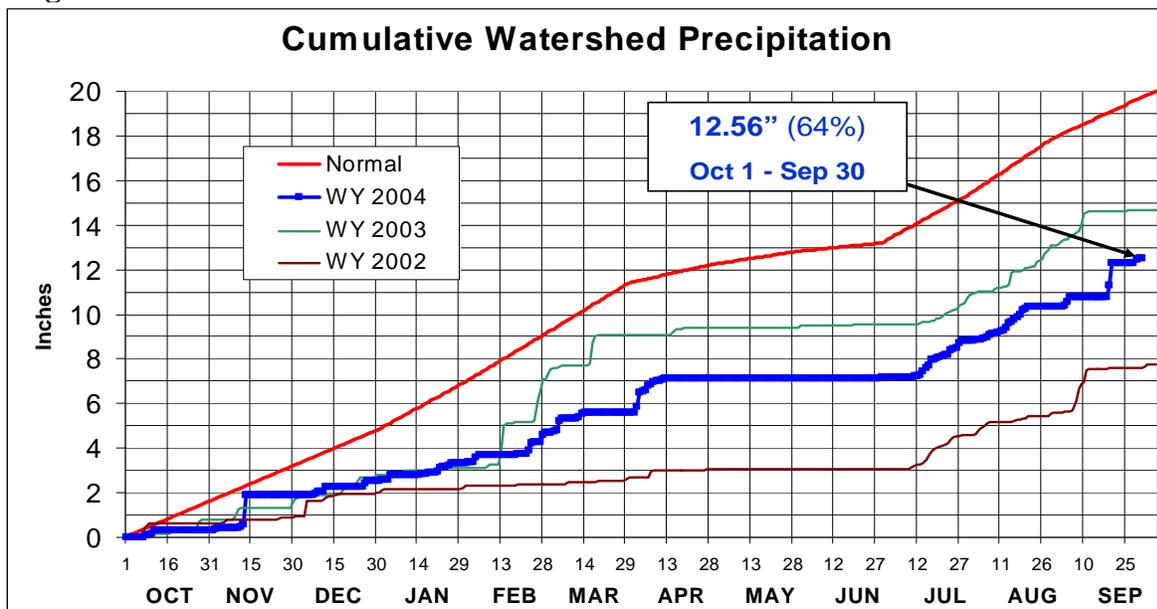
Drought conditions so prevalent in the east and along the west coast have been reduced, but no true relief has yet been felt throughout the intermountain west, including Arizona. The winter season produced 7.09 inches of precipitation on the Salt and Verde Watersheds, which is 60% of normal and 2.32 inches less than the previous winter. Runoff from the winter precipitation into Roosevelt was



233,080 acre-feet into Roosevelt, which is only 55% of normal.

Total inflow to the dam for the water year measured approximately 286,900 acre-feet. Total release from the dam for meeting water demand in the Phoenix metropolitan area was approximately 212,100 acre-feet. SRP water allocations were reduced in 2004 to 2 acre-feet per acre from the normal 3 acre-feet per acre. The allocation reduction significantly reduces demand. In addition, SRP has been pumping more than 300,000 acre-feet of water annually to offset reservoir releases and has purchased 125,000 acre-feet of Central Arizona Project water this year to directly offset reduced reservoir releases. All these factors combined resulted in limited amounts of water being released from Roosevelt in 2004. Water demand releases began around the month of May and ceased in early October to allow an annual draw down of Apache Lake for water management purposes.

Figure 2.

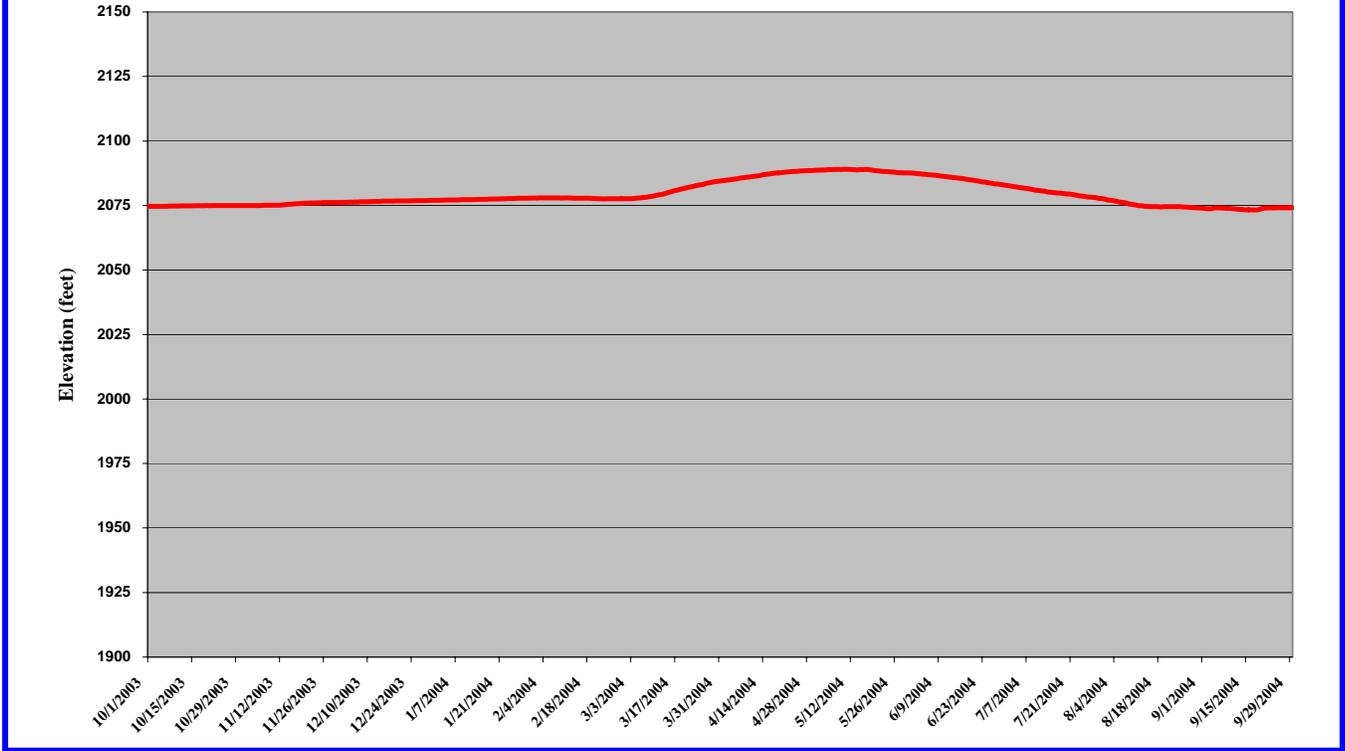


OCT 2003: 0.33" (20% of normal)	FEB 2004: 1.31" (63% of normal)	JUL 2004: 1.66" (78% of normal)
NOV 2003: 1.58" (103% of normal)	MAR 2004: 0.91" (39% of normal)	JUN 2004: 0.05" (13% of normal)
DEC 2003: 0.65" (39% of normal)	APR 2004: 1.50" (181% of normal)	AUG 2004: 1.53" (59% of normal)
JAN 2004: 0.84" (40% of normal)	MAY 2004: 0.00" (0% of normal)	SEP 2004: 2.14" (125% of normal)

The runoff over the previous water year allowed storage at the dam to climb from elevation of 2074.74 feet at the onset of WY2004 to a peak of 2088.81 feet on May 4th, 2004. Roosevelt was 38% full on that day and decreased to a low of 27% for the year on September 18, 2004. At this time, Roosevelt Lake is in its typical winter shutdown mode. The current elevation as of September 27, 2004 is 2074.34 feet and the reservoir is 28% full. If normal or less than normal runoff conditions result this coming season, releases will not be made from the reservoir again until mid-May 2005.

Unusual Events: There was one unusual hydrologic event to affect the dam and lake area this season. On September 19th and 20th the remnants of hurricane Javier caused thunderstorms and showers across Arizona. Over the two-day period, the Salt Watershed received an average of 1.19 inches of precipitation. Most of the precipitation was absorbed resulting in only about 1000 acre-feet of runoff into Roosevelt Lake.

Figure 3. Roosevelt Lake Surface Elevations



El Nino Returning: Tropical Pacific El Nino conditions are expected to be present this winter season and disrupt weather patterns all around the globe. In Arizona, El Nino winters bring normal to above normal precipitation nearly 85% of time. Unfortunately, that means that 15% of El Nino winters can still be dry. It is still too early to determine its impact on Arizona this season.

B. ITP Compliance Monitoring

The Roosevelt HCP states that SRP will periodically collect and evaluate information on occupied habitats and population status of flycatchers, rails, cuckoos and bald eagles at Roosevelt Lake to monitor compliance with the ITP. Vegetation monitoring is to be conducted to ensure that adaptive management thresholds or permit limits are not exceeded. In addition, populations of flycatchers, cuckoos and rails will be monitored for ITP compliance and to identify long-term trends using appropriate field survey techniques or protocols.

1. VEGETATION MONITORING AT ROOSEVELT

Reclamation is required to monitor riparian vegetation at Roosevelt through 2006.

2. BIRD SPECIES MONITORING AT ROOSEVELT

a. SOUTHWESTERN WILLOW FLYCATCHER SURVEYS

2004 Survey Results

In 2004, Reclamation provided funding to Arizona Game and Fish Department (AGFD) biologists to conduct flycatcher surveys at the Tonto Creek and Salt River inflow areas of Roosevelt Lake. Surveys were conducted according to established flycatcher survey protocol (Sogge et. al 1997). Additional work was conducted at Roosevelt Lake by U.S. Geological Survey (USGS) biologists, who banded flycatchers for tracking and identification purposes.

AGFD survey data collected in 2004 indicate that Roosevelt Lake supported a flycatcher population of 376 adults, the highest number ever recorded here and a 42% increase from 2003 (pers. comm. A. Tudor, AGFD). AGFD biologists detected a total of 207 territories: 139 at the Salt River inflow and 68 at the Tonto Creek inflow (Id.). This is an increase of 69 territories from 2003. AGFD reported a total of 180 nests. Of those, 134 nests were monitored and 3 of the monitored nests were parasitized by brown-headed cowbirds (Id.).

Although the greatest numbers of flycatchers were found along the Salt River inflow, 39 territories and 65 adult flycatchers were found at Bermuda Flats on the Tonto Creek inflow, an area not previously inhabited by flycatchers (pers. comm. A. Tudor, AGFD; E. Paxton, USGS).

Table 1. Comparison of flycatcher numbers and nesting success in the Roosevelt Lake area.

Roosevelt Lake: Salt River	2003	2004	Change
Territories	116	139	+23
Adults	219	257	+38
Pairs	98	118	+20
Nests	118	120	+2
Mayfield Nest Success	63%	39%	-24%
Roosevelt Lake: Tonto Creek			
Territories	22	68	+46
Adults	46	119	+73
Pairs	20	51	+31
Nests	26	60	+34
Mayfield Nest Success	53%	17%	-36%

Source: AGFD 2004 Unpublished Data; Smith, A. et al. (2004).

2005 Surveys

Reclamation will fund AGFD biologists to conduct flycatcher surveys at Roosevelt Lake during the 2005 breeding season.

b. YUMA CLAPPER RAIL SURVEYS

2004 Survey Results

In 2004, Alex Smith, an AGFD biologist, voluntarily conducted Yuma clapper rail surveys near Orange Peel Campground at the Tonto Creek inflow to Roosevelt Lake using established survey protocols (FWS 2000). This is the same area where a rail was incidentally detected in 2002. The cattail marsh where the rail was seen in 2002 had been

washed out by high spring flows in 2003 but was reported to have recovered in 2004 (Memorandum to L. Fitzpatrick, FWS, June 14, 2004).

No rails were detected during the 2004 survey, however there was an incidental detection by USGS and AGFD biologists later in the season (Revised memorandum to L. Fitzpatrick, FWS, October 27, 2004). On May 29, the detection was confirmed through vocalizations and sighting of a single rail in a large patch of cattails near the Orange Peel Campground (Id.).

2005 Surveys

Follow-up surveys may be conducted at Roosevelt Lake in 2005 by AGFD biologists if time and funding allow. SRP is not required to conduct surveys until 2007.

SRP will conduct monitoring of reservoir impacts to cattail marsh habitat if more than 3 acres of cattail marsh habitat exists below elevation 2151’.

c. YELLOW-BILLED CUCKOO SURVEYS

The goal of monitoring cuckoos at Roosevelt is to evaluate ITP compliance relative to thresholds for adaptive management and the cap on loss of occupied habitat, and to identify the long-term trend in the cuckoo population. SRP’s commitment was to survey cuckoo populations in 2003 and 2004 in order to establish the number of cuckoos and areas occupied by cuckoos in Roosevelt (SRP 2002:162).

2004 Survey Results

SRP contracted with the USGS Southwest Biological Science Center, Colorado Plateau Research Station (CPRS) at Northern Arizona University to conduct cuckoo monitoring at the Salt River and Tonto Creek inflows of Roosevelt Lake during the 2004 breeding season. The goal of these surveys is to identify occupied habitat at both Roosevelt Lake and at mitigation properties.

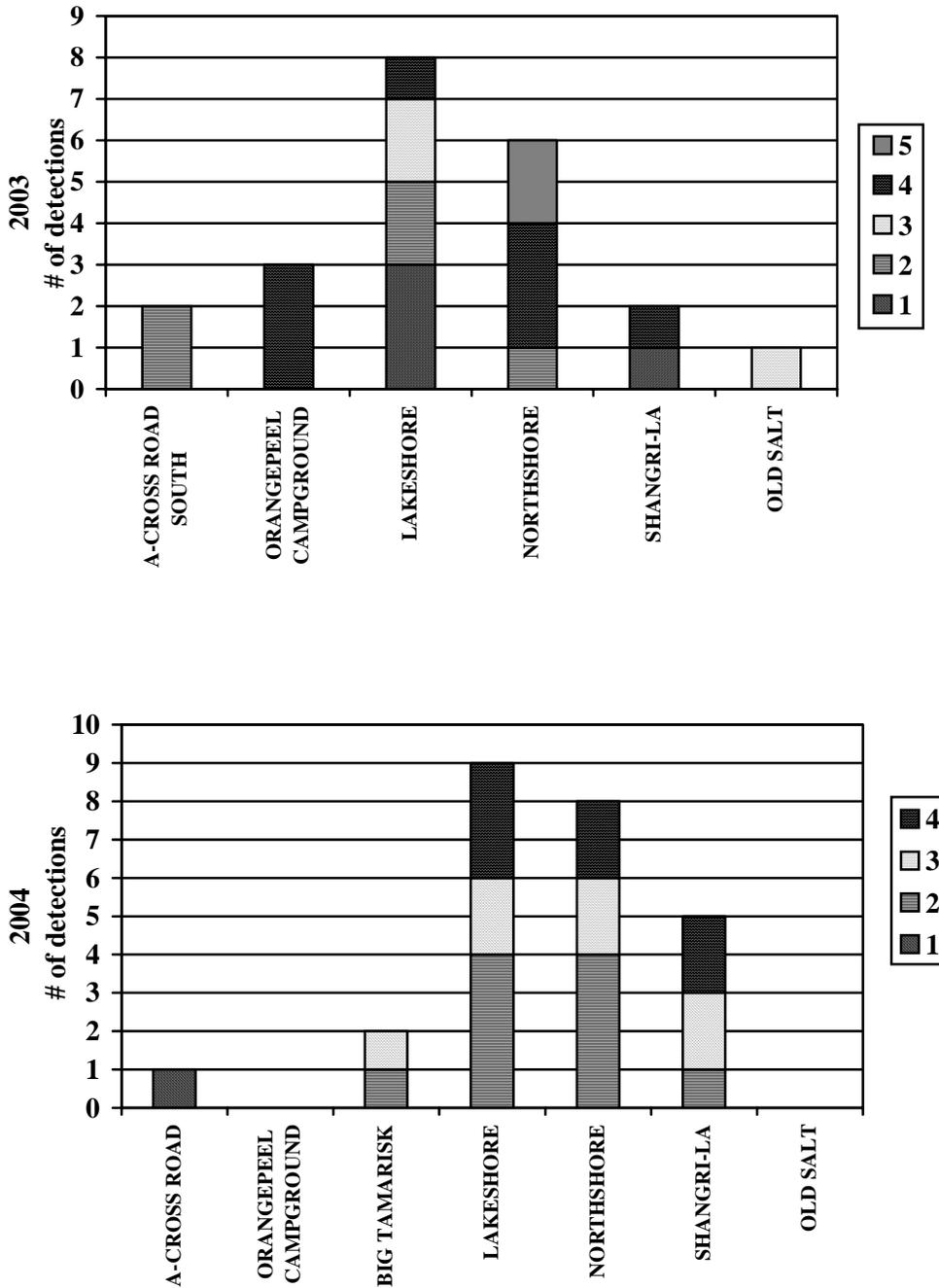
Seven sites were surveyed 4 times between June 11 and August 15, 2004. Sites included Lakeshore, Northshore, Old Salt, Shangri La, A-cross Road, Orange Peel Campground and Big Tamarisk. Behavioral observations, including nest searching, were also conducted.

Table 2. Yellow-billed cuckoo survey dates and detections – Roosevelt Lake

VISIT #	DATE SPAN 2003	DETECTIONS 2003	DATE SPAN 2004	DETECTIONS 2004
1	6/8-6/15	4	6/11-6/23	0
2	6/24-7/1	5	6/29-7/7	11
3	7/6-7/14	3	7/13-7/20	7
4	7/19-7/26	8	7/31-8/15	7
5	8/3-8/10	2		
Total		22		25

During surveys, 25 detections were made of cuckoos. The number of detections peaked during the second visit (6/29-7/7), decreased slightly on the third visit, then dropped considerably on the fourth and final visit (Table 2).

Figure 4. 2003 vs 2004 comparison of yellow-billed cuckoo detections - Roosevelt Lake



Five sites out of 7 had detections during 2004. Only 2 sites had no detections: Orange Peel Campground and the Old Salt sites (Figure 4). Among the sites that did have detections, detections were not evenly distributed across sites. One site, A-cross Road, had only one detection during one visit (visit 2). As in 2003, the Lakeshore site on the Salt River inflow, classified as mixed-native (51-75% native vegetation cover), had the greatest number of detections of all the Roosevelt Lake sites. The two sites that had no cuckoo detections were dominated by exotic vegetation. We mapped the location of

Yellow-billed Cuckoos detections in 2003 and 2004, and it appears that cuckoos were fairly consistent in the areas they used in the two years of our surveys.

Breeding was confirmed at the Shangri-la site. Two adult cuckoos were observed feeding nestling cuckoos. The number of nestlings could not be determined. This nest was believed to have been successful, fledging young.

2005 Surveys

SRP will fund an additional year of cuckoo surveys in 2005 at Roosevelt Lake. CPRS biologists have determined over the past two breeding seasons that cuckoos are difficult to follow, and therefore difficult to determine confirmed breeding. With the use of a second field technician in 2004, biologists were more effective in tracking cuckoos and confirming breeding. They have requested that SRP fund one more year of survey work so that they can accrue two years of data using this revised survey method.

Another factor in the decision to fund surveys in 2005 has to do with lake conditions. Roosevelt Lake has received more run-off during the winter of 2004-2005 than in the previous few years. Although SRP does not anticipate that the reservoir will be filled, cuckoo surveys will be conducted at the lake in 2005 to further establish baseline data and to identify occupied habitat under both dry and wet conditions. SRP's commitment under the RHCP is to re-initiate surveys in 2007 after the baseline surveys in 2003 and 2004. The extra year of surveying in 2005 will offset the 2007 start date by one year. We will re-initiate surveys in 2008.

d. BALD EAGLE PROGRAM

SRP is not required to monitor bald eagle populations at and near Roosevelt Lake. Instead, SRP's support for the bald eagle program through AGFD and the Southwest Bald Eagle Management Program takes several forms.

First, SRP provides a helicopter and pilot for use by AGFD biologists in doing their annual winter count in early January and their nest surveys throughout the nesting and fledging season. In 2004, SRP provided a helicopter and pilot for seven flights in support of the bald eagle program. Two flights in early January were part of Arizona's participation in the annual national winter count of bald eagles. The remaining flights (monthly, February through June) supported AGFD's eagle nest survey program. The total amount of helicopter/pilot flying time was 44 hours, which cost \$12,750.

SRP also provided AGFD with \$13,000 in cash for bald eagle activities: \$8,000 supported the nest watch program and \$5,000 was used in compiling and publishing bald eagle survey data. SRP also provided support and funding for the production of the 2003 update to the Arizona Bald Eagle Nest Map & Atlas.

Additional activities include SRP staff participation in meetings of the Southwestern Bald Eagle Management Committee, the multi-agency coordinating group for bald eagle management in Arizona.

2004 Survey Results

Five bald eagle nests are generally associated with Roosevelt Lake. They are Dupont, Pinal, Pinto, Rock Creek and Tonto Breeding Areas. In 2004, 5 young were successfully fledged from 3 of the nests. The Dupont nest, located in the Sierra Anchas, was

unoccupied and the Rock Creek nest, located near Four Peaks, failed. Productivity improved considerably over 2003, when all 5 nests were unsuccessful.

C. Tonto Protection Officer

The Roosevelt HCP states that “within 1.5 years of ITP issuance, SRP will negotiate a memorandum of understanding with the Tonto National Forest (TNF) to provide funding for a Forest Protection Officer (FPO).” On September 8, 2004, SRP signed an agreement with the Tonto National Forest to fund this work. The initial lump sum advance deposit of \$50,000 has been conveyed to the TNF to cover start-up costs. The annual payment of \$78,000 will be conveyed to TNF by January 1, 2005.

D. Rockhouse Riparian Planting and Created Wetland Project

A component of the Roosevelt HCP is the development of a 20-acre pilot project establishing native riparian habitat suitable for the listed and candidate species encompassed by the Roosevelt HCP. The Project is to be developed on the Salt River arm of Roosevelt Lake just above the point of inflow of the Salt River.

1. SITE DEVELOPMENT

The Rockhouse Riparian Pilot Project is situated on a 20-acre site, owned by Reclamation, located between the Salt River and the community of Rockhouse. In the winter of 2003-2004, SRP re-opened an irrigation ditch that historically diverted water from an existing diversion dam across the Salt River. The ditch was rehabilitated and remains an earthen ditch from the diversion dam to the Project site except for a short section crossing an old wash, which had to be lined with concrete to retain water. On the Project site itself the ditch was lined with concrete and fitted with outflow ports to transfer irrigation water to the planting beds. The old agricultural return ditch along the northwestern edge of the site was re-opened to allow the diverted water to flow back to the river.

The Project site itself was contoured and leveled to create five distinct planting beds and two wetland areas. A row of undisturbed mesquite trees was left separating two of the fields and a large section of undisturbed mesquites also remain on the southern portion of the site. Access roads were built between the planting beds and around the site. A barbed-wire fence was constructed around the site and there is a locked gate at the entrance to the Project site.

2. 2004 TREE PLANTING

Native Resources International (NRI) was awarded a contract to harvest poles and to grow one-gallon container trees for planting at the site. NRI crews also planted the trees. In the latter half of March 2004, planting of 3.5 of the 5 fields, an area covering approximately 7 acres, began and continued through the first week in April 2004 (Figure 5). Planting was delayed by three weeks due to construction delays. A total of 727 trees were planted, of which 684 were Fremont cottonwoods (*Populus fremontii*) and 43 were Goodding’s willows (*Salix goodingii*). Table 3 shows the breakdown of tree plantings in each field.

The trees were flood irrigated twice a week during the growing season. As soil and air temperatures began to drop irrigation was cut back to once a week. Once the trees go into dormancy, irrigation will be cut back again and will be based on soil moisture conditions.



Figure 5. Rockhouse Project Planting Plan

Table 3: Total Number of Trees Planted in Spring of 2004

Field Number	Total Number of Trees Planted	Number of 1 Gallon Containers	Number of Poles	Number of Cottonwoods	Number of Willows
1	83	40	43	73	10
2	181	84	97	165	16
3	0	0	0	0	0
4	273	273	0	273	0
5	190	94	96	173	17
Total Number of Trees:	727	491	236	684	43

3. TREE MONITORING

Several types of monitoring were implemented for this project. First, the on-site manager regularly checks soil moisture and tree condition to determine irrigation scheduling. Secondly, SRP contracted with Native Resources International, the company that planted the trees, to monitor tree mortality and condition on a monthly basis. Finally, SRP personnel monitor the overall health of the trees and growth rates.

Despite the late planting date and initial planting stress suffered by the trees, particularly the poles, a survival rate of 70.6% has been achieved. The percent of living and dead trees by type can be seen in Table 4.

Table 4: Percent of Living and Dead Trees by Type on October 27, 2004

	Total Number of Trees	1 Gallon Containers	Poles	Cottonwoods	Willows
Percent Dead:	29.0%	15.1%	59.3%	30.0%	20.9%
Percent Living:	70.6%	84.9%	40.7%	70.0%	79.1%

Tree growth was monitored on a randomly selected subset of trees. Ten (10) percent of the living trees in each field were randomly selected and tagged. We measured and recorded each tree's initial height at planting. Tree heights were again recorded for this subset on July 29 and October 13, 2004. As of October, the tallest Goodding's willow (*Salix goodingii*) was over 10.5 feet tall and the tallest Fremont cottonwood (*Populus fremontii*) was about 10 feet tall. Tables 5 and 6 give the average height and the average total growth of the tagged trees on select dates in 2004.

Table 5. Average height in feet of all tagged trees, initial planting thru October 13, 2004.

	Initial height 4/1/04	7/29/04	10/13/04
Average Tree Height (feet)	1.8	4.5	5.9

Table 6. Average total growth in feet of all tagged trees from select dates in 2004.

	Initial to 7/29/04	7/29/04 to 10/13/04	Initial to 10/13/04
Average Growth (feet)	2.7	1.4	4.1

4. WETLANDS

The original plans for the Project site called for two, 2.5-acre wetlands dominated by cattail and other emergents. Due to the current drought conditions on the Salt River and the possible difficulty of delivering water to the marsh habitat, SRP decided to acquire marsh habitat elsewhere.

At present the two wetland basins, remain dry, unlined and unplanted. Future evaluation is needed to determine the best possible alternative for the two basins.

5. PUBLIC OUTREACH

During the summer of 2004, local residents began to inquire about SRP's activities at the Rockhouse Project site. Their focus was on the recent arrival of West Nile Virus to Arizona, and what measures SRP was taking to prevent the development of mosquito-breeding habitat on the Project site.

SRP took an aggressive approach to mosquito control on the Project site. A Mosquito Abatement Plan was developed and provided to the Gila County Health Department. On August 19, 2004 an Open House was held at the Roosevelt Lake Resort to offer information on the Project to the public. SRP personnel and representatives of the Gila County Health Department were on hand to answer questions. Sixty-five (65) people attended the Open House.

6. FUTURE PLANTING

SRP plans to continue planting the remaining fields on the site in February/March 2005. NRI is again harvesting and growing Fremont cottonwoods (*Populus fremontii*) and Goodding's willows (*Salix goodingii*) to be planted in the remaining fields. The last one and a half planting beds will be planted with a combination of pole and one-gallon containers. An attempt will be made to plant willows in areas that tend to hold water longer. The trees will be monitored and flood irrigated in the same manner as the 2004 planting.

The pole and container plantings from 2004 that died will be replaced during the 2005 planting. One-gallon containers and poles will be replaced respectively.

III. STATUS OF MITIGATION PROPERTY ACQUISITIONS

A. Summary of acquisition status as of October 31, 2004

To date, SRP and BOR have purchased ten properties, totaling 1,529 acres of land along the San Pedro, Verde and Gila Rivers. These properties account for 1,046 acres of riparian habitat. An additional 7 acres of riparian trees were planted at the Rockhouse site near Roosevelt Lake. Other mitigation credits total 719 acres and include buffer lands, water rights and habitat protection efforts.

Table 7. Summary of acquisition status

Total acreage requirement:	2250 (acres)	
	Habitat	Other
Phase 1 (February 27, 2003)	500	250
Phase 2 (September 27, 2004)	500	250
Phase 3 (February 27, 2006)	500	250
Phase 1 Requirement (complete)	500	250
Acquired Phase 1	487	362
Excess carryover to Phase 2	-13	+112
Phase 2 Requirement (complete)	500	250
Minus carryover	+13	-112
Acquired Phase 2	566	357
Estimated carryover to Phase 3	+51	+219
Phase 3 Requirement	500	250
Minus carryover	-51	-219
Total Acres Needed for Completion	447	31

Table 7 lists the total acreage requirements for each phase of mitigation and the status of compliance with those requirements. The deadline for the Phase 2 requirement of 1000 acres of riparian habitat and 500 acres of other mitigation was September 27, 2004. SRP exceeded this goal by 270 acres; 51 acres of habitat and 219 acres of other mitigation.

Table 8 provides a more detailed presentation of SRP's mitigation efforts, listing each property by river system and identifying the number of "Habitat" and "Other" acres attributed to each property.

Table 8. Detailed status of mitigation through Phase 2

Item	Habitat (acres)	Other (acres)	Total (acres)
Total Acres Required	1,500	750	2,250
Acres Required for Phase 2	1,000	500	1,500
Acquisitions by river system:			
San Pedro River-			
San Pedro Preserve (USBR)	403	220	623
Adobe Preserve	54	77	131
Black Farm Preserve	30	65	95
Spirit Hollow Preserve (Skeen/Sonberg properties)	105	39	144
Stillinger Property	26	14	40
Verde River-			
Beta Ventures	124	---	124
Gila River-			
Hancock K	60	---	60
McEuen G	75	4	79
McEuen R	169	---	169
Other Programs			
Rockhouse Project	7	---	7
Tonto Forest Protection Officer	---	300	300
Total Acres Acquired To Date	1,053	719	1,772
Remainder needed by 2/27/06	447	31	478

¹ Other Measures mitigation may be used to satisfy the total mitigation requirement through Phase 2, or the balance can be applied toward the remaining 250 acres of Other Mitigation that must be completed by the end of the third phase of mitigation. However, when the mitigation is complete (by 2/27/2006), at least 1,500 acres of Habitat Acquisition must be completed by SRP.

IV. MITIGATION PROPERTIES – Monitoring and Management

The following section provides a summary of activities on each mitigation property by river. A brief description of each property is presented, followed by results of bird monitoring activities, a summary of management activities accomplished in 2004 and a discussion of proposed activities for 2005.

A. San Pedro River

SRP purchased five properties, totaling 470 acres, in the lower San Pedro River valley as mitigation for impacts to flycatchers and cuckoos resulting from the operation of Roosevelt Lake and Dam. SRP is currently managing these properties. These properties are grouped into four wildlife preserves, protecting approximately 618 acres of riparian habitat, 2555.7 acre-feet of water rights and 53 acres of buffer lands. A seventh property, the 623-acre San Pedro Preserve, was purchased by Reclamation and is managed by the The Nature Conservancy. The total amount of riparian habitat protected on the San Pedro River and Aravaipa Creek is approximately 1,026 acres.

Flycatcher survey data from the 2004 breeding season indicate that SRP's wildlife preserve lands on the San Pedro River had 22 flycatcher territories, 17 pairs, 17 nests and 39 adults (pers. comm., H. English, AGFD). These numbers do not include the San Pedro Preserve. None of the nests were reported to have been parasitized (Id.)

Cuckoos were surveyed by CPRS biologists on two of the Preserves in 2004, Adobe and Spirit Hollow. These sites were surveyed 4 times between June 11 and August 15, 2004. During surveys, 16 detections of cuckoos were made: 5 at Adobe Preserve and 11 at Spirit Hollow Preserve. Spirit Hollow had the greatest number of detections of any site on either the San Pedro River or at Roosevelt Lake. CPRS biologists suspect that there was a breeding pair at Spirit Hollow, although this was not confirmed.

1. ADOBE PRESERVE

Purchased from	DeNormandie
Close of escrow	9/27/03
Total acreage	153 acres
Estimated riparian acreage	54 acres in San Pedro River
Estimated water rights transfer credits	77 acres (annual avg 863.2 acre-feet)
Property management entity	SRP
Status of Baseline Inventory	Completed
Status of Management Plan	Revised draft to FWS
Status of Wildfire Abatement & Response Plan	Completed

Monitoring Activities in 2004:

Flycatcher Surveys: In 2004, AGFD biologists were funded by Reclamation to conduct surveys for flycatchers on this property. Data from AGFD show there were a total of 10 flycatcher territories, 9 pairs, 8 nests and 19 adults identified within the riparian corridor

on the property (pers. comm., H. English, AGFD). In 2003, there were 17 territories estimated on this property.

Cuckoo Surveys: SRP contracted with the Colorado Plateau Field Station at Northern Arizona University to conduct cuckoo monitoring at the Adobe Preserve during the 2004 breeding season. Five detections were made during 2 visits. In 2003, four detections were made during 2 site visits.

Photo points: Seven photo points were established and baseline photographs were taken in 2003. Two additional photo points were established in 2004 and repeat photographs were taken at the other seven points in 2004.

Management Actions Completed in 2004:

a. Baseline Inventory and Management Plan

The Baseline Inventory report has been reviewed and accepted by FWS. The Management Plan was revised after initial review and comment by FWS. The revised version was sent to FWS on August 16, 2004. The Plan will be finalized after receiving concurrence from FWS.

b. Water rights and use

SRP's Water Rights and Contracts Department submitted a Statement of Claim form to the Arizona Department of Water Resources ("ADWR") on May 20, 2004. SRP will sever and transfer an annual average surface water right of 863.2 acre-feet from irrigation and stock watering use to an instream flow use for wildlife purposes.

No groundwater pumping is occurring on the property at this time. Both the irrigation well and the domestic well remain inoperable.

c. Cowbird Management

No cowbird trapping was conducted on or in the vicinity of the property in 2004.

d. Wildfire Abatement

A Wildfire Abatement and Response Plan was completed and sent to FWS for review. Fire prevention activities conducted in 2004 included regularly patrolling the property to identify and eliminate potential fire hazards. Activities included mowing of vegetation around buildings and wells to maintain at least a 10-foot clearance, trimming tree limbs near buildings and clearing and re-grading roads.

e. Fencing and gates

SRP is in the process of fencing the riparian area to exclude human and livestock trespass. As was discussed last year, SRP will be fencing across the entire width of the riparian corridor. Fencing will be completed no later than March 30, 2005.

Cross fencing between the riparian area and upland fields was secured. Fallen trees on fence lines were cleared. Recently, two gates were installed in the fence that runs along the edge of the riparian area. These gates will control access to the river bottom.

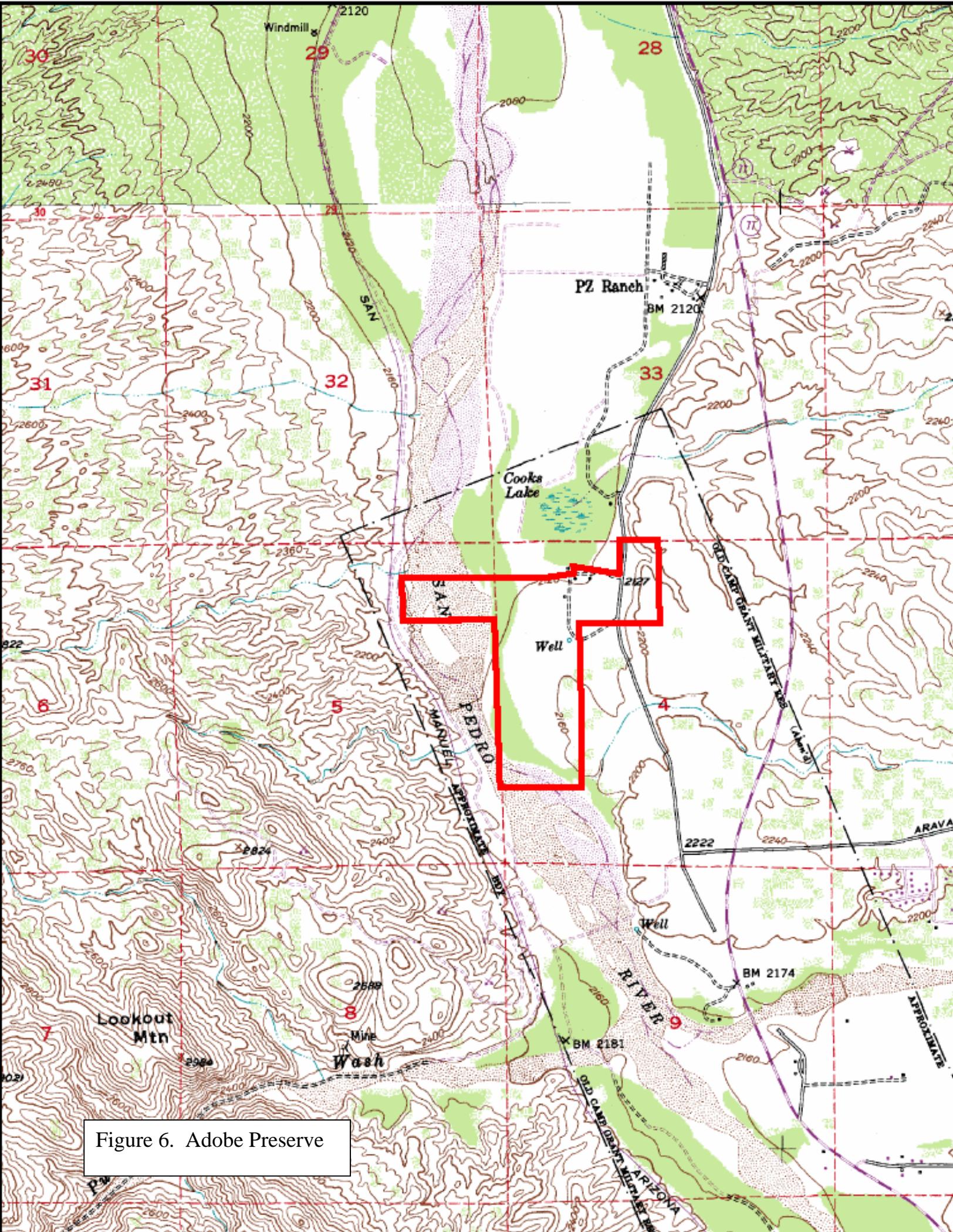


Figure 6. Adobe Preserve

f. Restoration of upland fields

No actions have been taken to restore upland fields in the past year. Portions of the abandoned agricultural fields on the river terrace are naturally converting to mesquite shrub lands. Where the water table is shallow, mesquite trees are developing. Other areas remain largely denuded of all but non-native weed species, such as prickle-poppy, field bindweed, buffalo gourd, datura, horehound, Russian thistle, puncture vine and Bermuda grass.

g. On-Site Management

SRP hired a property manager for the Roosevelt HCP mitigation properties in March 2004. The property manager conducted weekly, on average, patrols of the property and fence lines, checking for and repairing any breaches in the fences in a timely manner, arranging for removal of trespass livestock and conducting any other general maintenance activities that were needed.

h. Coordination with Neighbors and Community

SRP maintains relationships with neighboring property owners and land managers. SRP developed a license agreement with Reclamation for fence maintenance and removal of trespass livestock between our two preserves. SRP staff are coordinating activities with Paul Smith, who manages the adjacent ASARCO lands, and John Smith, who leases the adjacent ASARCO lands for grazing purposes and owns the nearby Three Bar Ranch.

Monitoring and Management Actions Planned for 2005:

a. Bird Surveys

- Coordinate with Reclamation and AGFD on conducting flycatcher surveys in 2005.
- Based on 2004 cuckoo survey results, make a determination as to whether there is enough information to establish a baseline on this property. If not, then surveys will be conducted in 2005.

b. Vegetation monitoring – photo points

- Retake photographs at each photo point in 2005.

c. Baseline Inventory and Management Plan

- Incorporate any final comments from FWS into the Management Plan, finalize the plan and distribute copies to cooperators.

d. Water Rights and Use

- Continue to pursue the sever and transfer of water rights with ADWR.
- Determine whether domestic well will be re-drilled or abandoned.

e. Cowbird Management

- No cowbird trapping will be conducted in 2005, per decision made at the Annual Meeting.

f. *Wildfire Abatement*

- Continue, as necessary, regularly patrolling the property to identify and eliminate potential fire hazards, mowing vegetation around buildings and wells to maintain at least a 10-foot clearance, trimming tree limbs near buildings and clearing and re-grading roads.
- Send copies of Wildfire Abatement Plan to fire-fighting units and law enforcement agencies, along with a map of the Preserve.
- Familiarize all SRP employees and contractors working on the preserve with fire abatement and response protocols.

g. *Fencing and Gates*

- Complete boundary fencing no later than January 15, 2005.
- Patrol and maintain fences.

h. *Restoration of Upland Fields*

- No activities are planned for 2005.

i. *On-Site Management*

- On average, weekly patrols of the property and fence lines will be conducted
- Trespass livestock will be removed
- General maintenance activities will be accomplished, as needed.

j. *Invasive Plant Control*

- The property will be surveyed to determine presence of invasive plants; if present, extent will be determined and a plan developed for elimination or control.

2. BLACK FARM PRESERVE

Table 10. Summary – Black Farm Preserve	
Purchased from	Stambaugh
Close of escrow	1/10/03
Total acreage	137 acres
Estimated riparian acreage	30 acres in Aravaipa Creek
Estimated water rights transfer credits	65+ acre-credits
Property management entity	SRP
Status of Baseline Inventory	Draft sent to FWS 10/19/04
Status of Management Plan	Draft sent to FWS 10/19/04
Status of Wildfire Abatement & Response Plan	Draft completed, send to FWS

Monitoring Activities in 2004:

Flycatcher and Cuckoo Surveys: This property is comprised of 107.8 acres of agricultural fields and approximately 30 acres of riparian scrub-shrub in Aravaipa Creek. No biological monitoring was conducted for flycatchers or cuckoos because suitable habitat has not developed yet on the property.

Photo points: Five photo points were established and baseline photographs were taken in the spring of 2004. Repeat photographs were taken in October 2004.

Management Actions Completed in 2004:

a. Baseline Inventory and Management Plan

The Baseline Inventory and Management Plan documents were completed and sent to FWS for review on October 19, 2004.

b. Water Rights and Use

This property was acquired for the primary purpose of severing and transferring surface water rights from irrigation use to instream flow use for wildlife purposes.

SRP's Water Rights and Contracts Department submitted a Statement of Claim form to the Arizona Department of Water Resources on May 20, 2004. SRP will sever and transfer an annual average surface water right of 1,692.5 acre-feet from irrigation use to an instream flow use for wildlife purposes.

There are two wells on the property, an irrigation well and a domestic well. When the transfer is complete, the irrigation well will be capped and abandoned and only the domestic well will be retained for use. The domestic well supplies water to the field office located in the farmhouse.

c. Restore Native Plant Community on Agricultural Fields

When this property was purchased, the agricultural fields were being cultivated with a rotation of wheat and cotton. Left fallow, these fields would quickly become covered with weeds, such as bindweed and pigweed. Because adjacent fields are still under cultivation, SRP wanted to minimize the impact of weed proliferation on the adjacent farmlands.

To minimize these impacts, SRP is seeding the fields with a native grass seed mix comprised of the following species:

Sideoats grama	Alkali sacaton
Purple three-awn	Sand dropseed
Plains bristlegrass	

In June 2004, approximately 33 acres were seeded. Fields were irrigated periodically to enhance grass propagation and growth. Fields were mowed to keep pigweed from shading out grasses. An additional 10 acres were seeded in September 2004. SRP will irrigate the newly planted fields for at least one growing season after planting or until water rights have been transferred, whichever comes first.

d. Restoration of Riparian Habitat

Many years of overgrazing and groundwater pumping have negatively impacted the vegetation in Aravaipa Creek. The primary actions toward recovery of this vegetation are (1) to eliminate livestock grazing by fencing the area, (2) to reduce groundwater pumping in the near term and eliminate groundwater pumping for irrigation altogether within 1.5 years, and (3) to allow flood waters to reclaim portions of the agricultural fields.

In 2004, SRP surveyed and flagged the property boundary in the stream bottom in preparation for fencing and contracted for fence construction. Fences will be constructed in February 2005.

Although SRP is still using groundwater to irrigate native grass in the agricultural fields, groundwater use was greatly reduced in 2004 from previous levels of use.

e. Cowbird Management

No cowbird trapping was conducted on the property in 2004.

f. Wildfire Abatement

A Wildfire Abatement and Response Plan was completed and sent to FWS for review in November 2004. Fire prevention activities conducted in 2004 included regularly patrolling the property to identify and eliminate potential fire hazards, mowing of vegetation around buildings and wells to maintain at least a 10-foot clearance, trimming tree limbs near buildings and maintaining roads.

g. Fencing

SRP is in the process of fencing the riparian area to exclude human and livestock trespass.

h. On-Site Management

SRP hired a property manager for the Roosevelt HCP mitigation properties in March 2004. Property manager conducted weekly patrols of the property and fence lines, checking for and repairing any breaches in the fences in a timely manner and conducting any other general maintenance activities that were needed.

i. Coordination with Neighbors and Community

SRP maintains relationships with neighboring property owners and land managers. SRP contracted with Bill Stambaugh, neighbor and previous owner, to assist with the native grass planting efforts.

Monitoring and Management Actions Planned for 2005:

a. Bird Surveys

- Conduct surveys for flycatchers and cuckoos when suitable habitat develops.

b. Vegetation monitoring – photo points

- Retake photographs at each photo point in 2005.

c. Baseline Inventory and Management Plan

- Incorporate any final comments from FWS into the Management Plan, finalize the plan and distribute copies to cooperators.

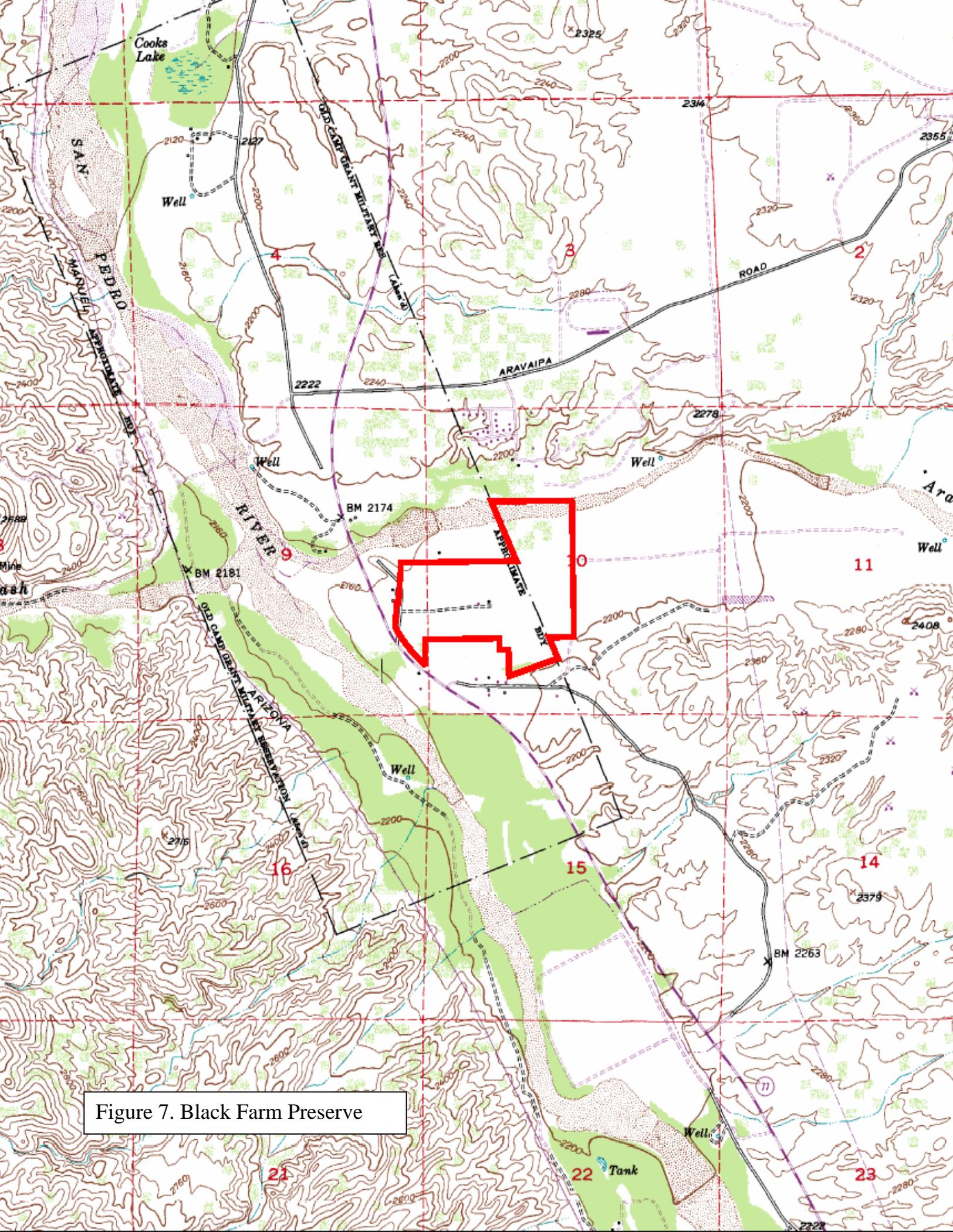


Figure 7. Black Farm Preserve

d. Water Rights and Use

- Continue to pursue the sever and transfer of water rights with ADWR.

e. Cowbird Management

- No cowbird trapping will be conducted in 2005 because there are no flycatchers present.

f. Wildfire Abatement

- Continue, as necessary, regularly patrolling the property to identify and eliminate potential fire hazards, mowing of vegetation around buildings and wells to maintain at least a 10-foot clearance, trimming tree limbs near buildings and maintaining roads.
- Send copies of Wildfire Abatement Plan to fire-fighting units and law enforcement agencies, along with a map of the Preserve.
- Familiarize all SRP employees and contractors working on the preserve with fire abatement and response protocols.

g. Fencing

- Complete boundary fencing no later than January 15, 2005.
- Patrol and maintain fences.

h. Restoration of upland fields

- Seed the remaining 60 acres in spring 2005. Irrigate fields only when necessary to maintain optimum soil moisture levels for grass propagation and growth.

i. On-Site Management

- On average, conduct weekly patrols of the property and fence lines
- Remove any trespass livestock
- Conduct general maintenance activities, as needed.

j. Invasive Plant Control

- Survey the property to determine presence of invasive plants; if present, determine extent and develop a plan for elimination or control.

3. SPIRIT HOLLOW PRESERVE

Purchased from	Skeen and Sonberg
Close of escrow– Lots 2, 3, 4:	7/28/03
Close of escrow – Lot 5:	8/31/03
Close of escrow – Sonberg (Lot 1)	7/25/04
Total acreage	140 acres
Estimated riparian acreage	125 acres in San Pedro River
Estimated buffer acreage	15 acres
Property management entity	SRP
Status of Baseline Inventory	Extension requested to include Sonberg parcel
Status of Management Plan	Extension requested to include Sonberg parcel
Status of Wildfire Abatement & Response Plan	Draft completed, sent to FWS

Monitoring Activities in 2004:

Flycatcher Surveys: In 2004, AGFD biologists were funded by Reclamation to conduct surveys for flycatchers on this property. Data from AGFD show there were a total of 6 territories, 5 pairs, 6 nests and 11 adults (pers. comm. H. English, AGFD). Nest success is unknown due to limited surveys (Id.). In 2003, there were 6 territories, 6 pairs and 5 nests.

Surface water was scarce during the beginning of flycatcher breeding season. However, the watershed received enough rain during monsoon season to keep surface water flowing on the property during the latter part of July and through August.

Cuckoo Surveys: In 2004, SRP contracted with CPRS biologists to conduct surveys for cuckoos. Data indicate that a total of 11 detections of cuckoos were made during 3 site visits. Biologists speculate that there was likely a breeding pair at this site. This was the first year of cuckoo surveys following SRP acquisition.

Photo points: Photo points have not been established on this property.

Management Actions Completed in 2004:

a. Baseline Inventory and Management Plan

SRP requested an extension for the baseline inventory and management plan on this property so that the newly acquired Sonberg parcel could be incorporated into the document.

b. Expansion of Preserve

SRP acquired the Sonberg property on July 25, 2004. The property is comprised of 40-acres that lie adjacent to the north boundary (downstream) of the Skeen parcels. At the time of purchase, an abandoned mobile home and a large amount of trash and debris existed on the property. SRP crews removed the mobile home, septic tank, garbage and debris from the property. The only structure remaining is the well house.

c. Cowbird Management

No cowbird trapping was conducted on or in the vicinity of the property in 2004.

d. Wildfire Abatement

A Wildfire Abatement and Response Plan was completed for the property in October 2004.

e. Fencing and access road

SRP is in the process of fencing the Sonberg property boundaries and the western boundary of the Skeen parcels. Fencing will be completed no later than March 30, 2005.

The newly acquired Sonberg parcel provides access from Redington Road to the river bottom. Access to the river bottom is essential for fence building and maintenance. However, any activity that channelizes water on the site, such as roads or trails, must be done carefully because of the fine, silty alluvial soils that are present in the area. These soils erode easily where groundcover is scarce and have a tendency to form head-cuts. SRP is in the process of locating the access road and developing a corresponding erosion control plan for the road. The road will be developed simultaneously with fence construction on this parcel.

f. On-Site Management

SRP hired a property manager for the Roosevelt HCP mitigation properties in March 2004. Property manager conducted weekly, on average, patrols of the property and fence lines, checking for and repairing any breaches in the fences in a timely manner, arranging for removal of trespass livestock and conducting any other general maintenance activities that were needed.

g. Coordination with Neighbors and Community

SRP maintains relationships with neighboring property owners and land managers, periodically visiting or calling them to keep them informed of our activities.

In September 2004, The Nature Conservancy (TNC) contacted SRP regarding a 20-acre parcel that lies adjacent to the northern boundary of the Sonberg parcel to discuss management opportunities. TNC holds a conservation easement on this piece as a result of Section 404 mitigation incurred by the owner. Discussions are in an early stage, but SRP will inform FWS of any proposals regarding cooperative management of this parcel for flycatchers.

Monitoring and Management Actions Planned for 2005:

a. Birds Surveys

- Cooperate with Reclamation and AGFD on flycatcher surveys in 2005.
- Evaluate 2004 cuckoo survey results and determine whether there is enough information to establish a baseline on this property. If not, then surveys will be conducted in 2005.

b. Vegetation monitoring – photo points

- Establish photo points on the site.

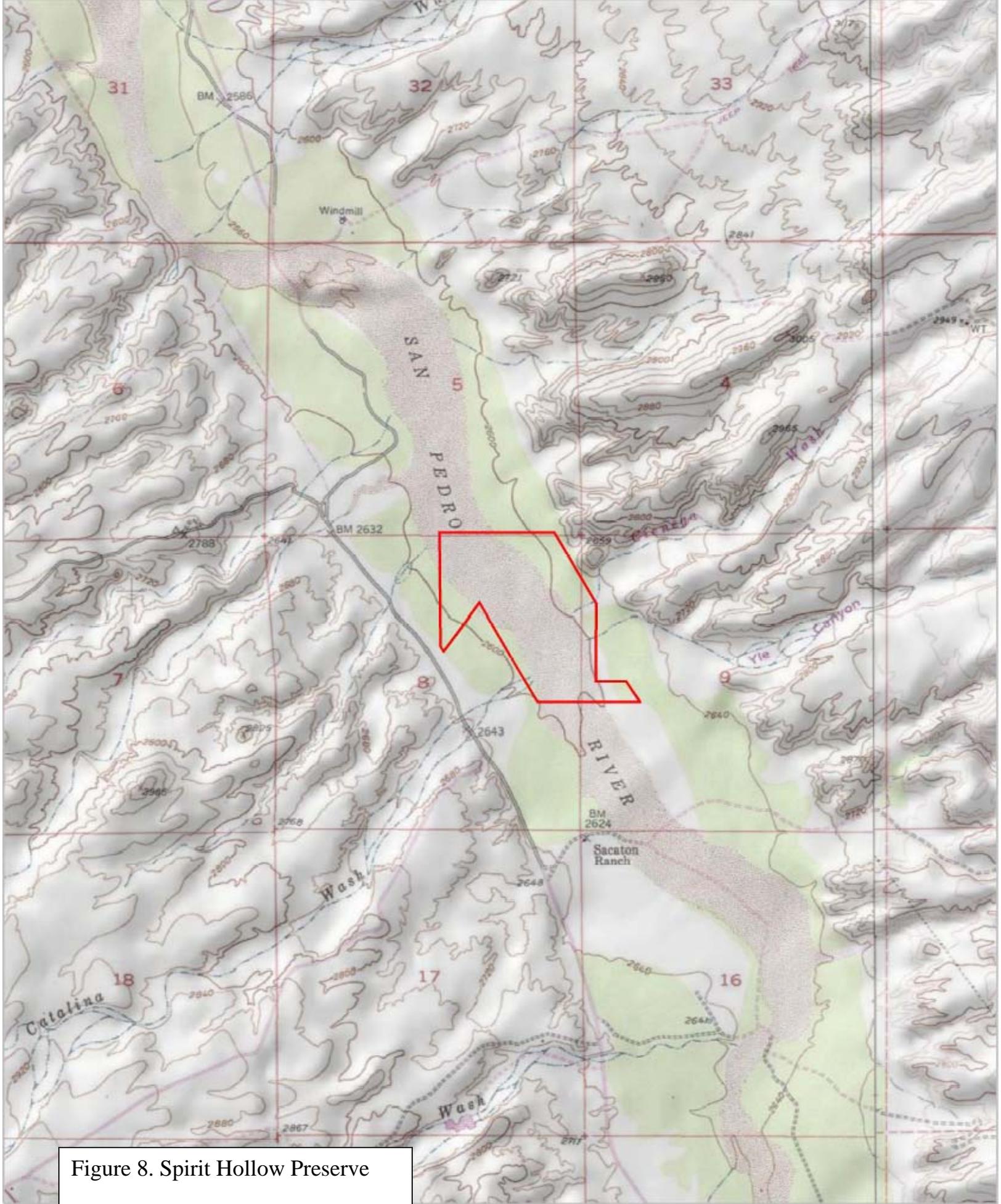


Figure 8. Spirit Hollow Preserve

c. *Baseline Inventory and Management Plan*

- Complete a baseline inventory and management plan

d. *Cowbird Management*

- Based on discussions at the Annual Meeting, cowbird trapping will not be conducted in 2005.

e. *Wildfire Abatement*

- Continue, as necessary, regularly patrolling the property to identify and eliminate potential fire hazards, maintaining the road, and mowing of vegetation around buildings and wells to maintain at least a 10-foot clearance.
- Send copies of Wildfire Abatement Plan to fire-fighting units and law enforcement agencies, along with a map of the Preserve.
- Familiarize all SRP employees and contractors working on the preserve with fire abatement and response protocols.

f. *Fencing*

- Complete boundary fencing no later than January 15, 2005.
- Patrol and maintain fences.

g. *On-Site Management*

- On average, conduct weekly patrols of the property and fence lines.
- Remove any trespass livestock.
- Conduct general maintenance activities, as needed.

h. *Invasive Plant Control*

- Survey the property to determine presence of invasive plants; if present, determine extent and develop a plan for elimination or control.

i. *Facilities Management*

- Evaluate condition of well and pump on the Sonberg parcel.
- Work with ASU to locate groundwater monitoring piezometers on the Skeen parcels.

4. STILLINGER PROPERTY

Purchased from	Stillinger Family Trust
Close of escrow	6/5/04
Total acreage	40 acres
Estimated riparian acreage	26 acres
Estimated buffer acreage	14 acres
Property management entity	SRP
Status of Baseline Inventory	Due one year after COE
Status of Management Plan	Due one year after COE
Status of Wildfire Abatement & Response Plan	Draft completed, send to FWS

Monitoring Activities in 2004:

Flycatcher Surveys: In 2004, AGFD biologists were funded by Reclamation to conduct surveys for flycatchers on this property. Preliminary data from AGFD show there were a total of 6 territories, 3 pairs, 3 nests and 9 adults. (pers. comm. H. English, AGFD). None of the nests were parasitized (Id.).

Cuckoo Surveys: No surveys were conducted in 2004.

Photo points: Photo points have not been established on this site.

Management Actions Completed in 2004:

a. On-Site Management

SRP hired a property manager for the Roosevelt HCP mitigation properties in March 2004.

b. Wildfire Abatement

A Wildfire Abatement and Response Plan was completed for the property in October 2004. The plan will be sent to FWS for review in November 2004.

Monitoring and Management Actions Planned for 2005:

a. Birds Surveys

- Coordinate with Reclamation and AGFD on flycatcher surveys.
- Conduct cuckoo surveys on the property to begin to establish a baseline. The 2005 survey will be the first post-acquisition cuckoo survey on the property.

b. Vegetation monitoring – photo points

- Establish photo points on the site.

c. Baseline Inventory and Management Plan

- Complete a baseline inventory and management plan

d. Cowbird Management

- Based on discussions at the Annual Meeting, no cowbird trapping will be conducted in 2005.

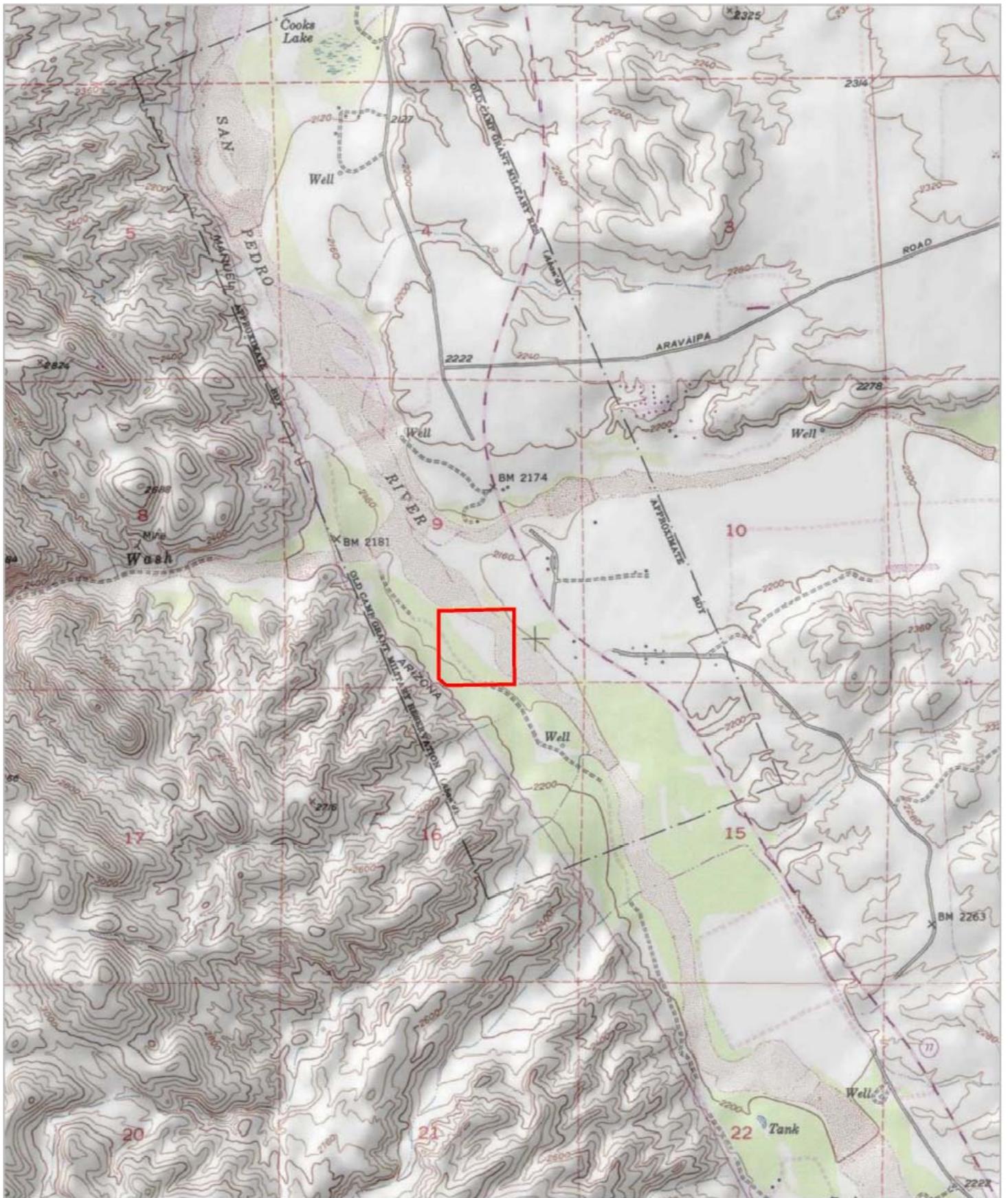


Figure 9. Stlinger Property

e. Wildfire Abatement

- Conduct regular patrols of the property to identify and eliminate potential fire hazards.
- After FWS review, send copies of Wildfire Abatement Plan to fire-fighting units and law enforcement agencies, along with a map of the Preserve.
- Familiarize all SRP employees and contractors working on the property with fire abatement and response protocols.

f. Fencing

- Evaluate property to determine whether the boundary can be fenced without destroying flycatcher habitat (see Figure 9).

g. On-Site Management

- On average, conduct weekly patrols of the property.
- Conduct general maintenance activities, as needed.

h. Coordination with Neighbors

- Develop positive relationships with neighboring landowners and land managers.

B. Verde River

SRP committed to acquire and manage up to 160 acres of riparian habitat in the Verde Valley as part of the mitigation measures in the Roosevelt HCP (SRP 2002:143). The reach of the Verde River near the town of Camp Verde was selected as the focus of conservation because the largest known flycatcher population on the Verde River is located in this area. SRP acquired one property in the Camp Verde area in January 2004 to satisfy this commitment.

1. BETA VENTURES PROPERTY

Purchased from	Beta Ventures
Close of escrow	1/19/04
Total acreage	124 acres in Verde River
Estimated riparian acreage	124 acres
Property management entity	SRP
Status of Baseline Inventory	Due one year after COE
Status of Management Plan	Due one year after COE
Status of Wildfire Abatement & Response Plan	Not started

Monitoring Activities in 2004:

SRP contracted with Engineering & Environmental Consultants, Inc. (EEC) to conduct surveys for flycatchers and cuckoos on this site. Flycatcher surveys were conducted using the revised flycatcher survey protocol (FWS 2000; Sogge et al. 1997). Cuckoo surveys were conducted using the draft protocol developed by Halterman and Johnson (2003).

The 2004 surveys were the first year that both flycatcher and cuckoo surveys were conducted following SRP acquisition.

Flycatcher Survey Results: EEC biologists detected one territory with one pair for the season. Brown-headed cowbirds (*Molothrus ater*) were also detected in the area.

Cuckoo Survey Results: There were a total of 5 detections over 3 survey periods. EEC biologists estimate one pair on the property, with detections being the result of this pair moving around on the property, or possibly one pair and one individual.

Photo points: Photo points have not been established on the property.

Management Actions Completed in 2004:

a. Cowbird Management

SRP did not conduct cowbird trapping on the property in 2004. However, Tom Koronkiewicz, biologist with SWCA Environmental Consultants informed us that they conducted brown-headed cowbird trapping on and in the vicinity of the property for Harvard Investments, Inc. SRP has not received a copy of the 2004 report, but was told it would be sent to FWS.

b. Boundary Issues, Fencing and Access

SRP staff met with the person who leases the land adjacent to the southern boundary of the property to discuss removal of livestock from SRP's property and changes in fence locations. SRP awarded a fencing contract for the southern boundary fence in October 2004. The fence will be completed by December 31, 2004.

SRP has been working on resolving a boundary dispute along the northern boundary of the property and has been trying to get access through the Mahan property (eastern boundary) to build a fence along that portion of the river.

SRP is not able to close off a dirt road that runs under the I-17 bridge. Fencing across this area would cause debris to pile up at the bridge during high flows and potentially endanger the bridge. The property received some ATV use because of this access. SRP will continue to work with the community to resolve this situation and educate the public about the conservation status of this property.

c. On-Site Management

SRP is in the process of getting on-site management for this property. SRP staff members have been periodically patrolling the site since acquisition.

d. Coordination with Neighbors and Community

SRP staff was asked to meet with the Camp Verde mayor, town manager, and town attorney and representatives from Spur Land and Cattle Company to discuss the potential to create a greenway corridor along this reach of the Verde River. SRP informed them of the conservation status of the property and the need to protect flycatcher and cuckoo habitat. SRP staff also met with Ken Travous, Director of Arizona State Parks Board and The Nature Conservancy at their request to discuss this same issue.

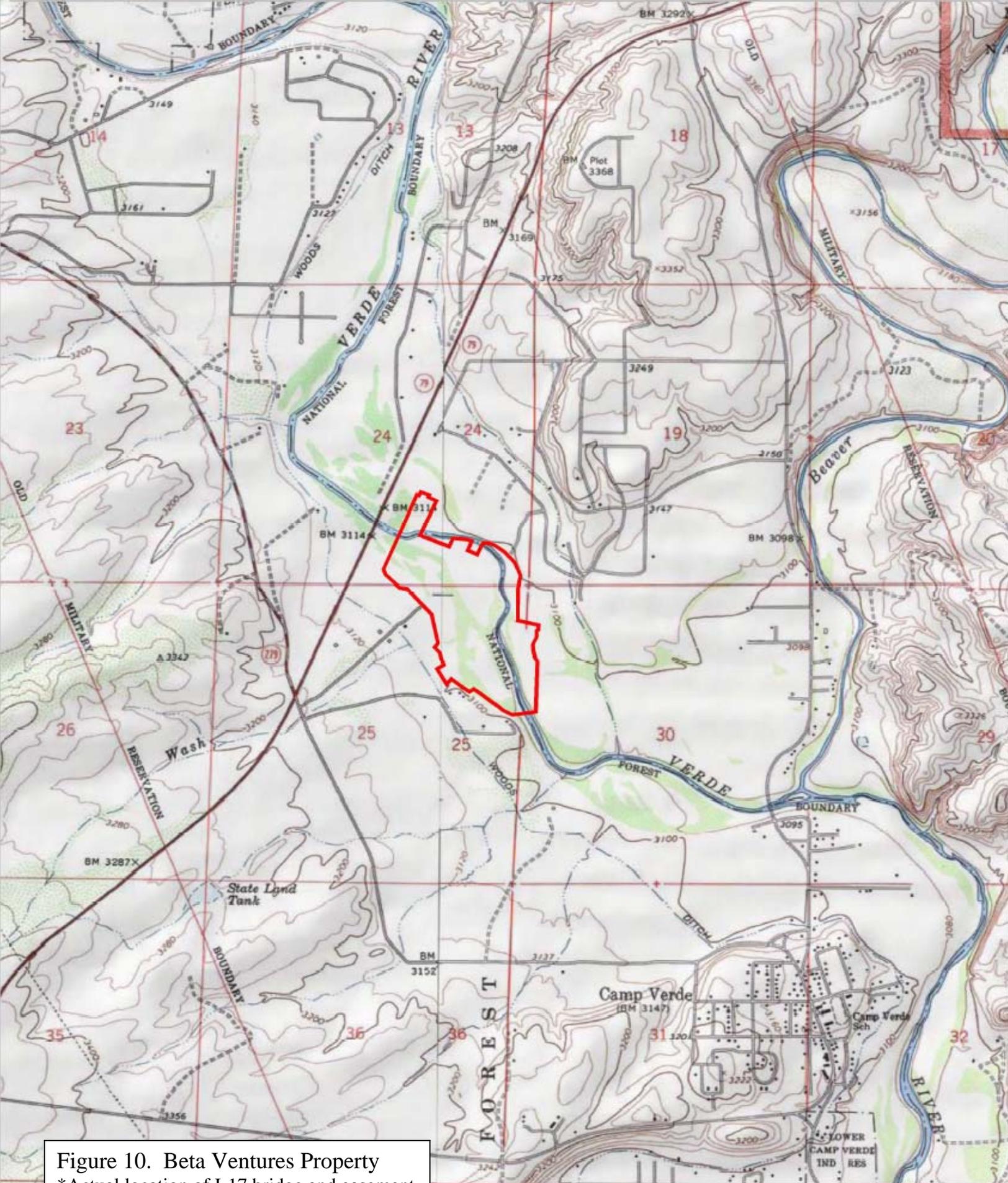


Figure 10. Beta Ventures Property
*Actual location of I-17 bridge and easement is immediately adjacent to upstream boundary of property.

Monitoring and Management Actions Planned for 2005:

a. Birds Surveys

- Contract with qualified biologist(s) to conduct flycatcher and cuckoo surveys on this Property in 2005.

b. Cowbird Management

- Based on discussions at the Annual Meeting, cowbird trapping will not be conducted in 2005.

c. Vegetation Monitoring – photo points

- Establish photo points on the property in 2005.

d. Baseline Inventory and Management Plan

- Complete a baseline inventory of the property and develop a management plan based on an evaluation of inventory data and property conditions.

e. Wildfire Abatement

- Complete a Wildfire Abatement and Response Plan and disseminate the plan to the appropriate agencies.

f. Boundary Issues, Fencing and Access

- Continue to work on resolving any boundary issues or disputes on the property.
- Fence along any gaps in the northern and eastern boundaries.
- Continue to work with adjacent landowners to resolve the access problem at the I-17 bridge. Place signage in the area to deter trespassers.

g. On-Site Management

- Hire a local individual to conduct regular patrols of the property, to conduct general maintenance and fence repair, to remove trespass livestock, and to deter human and vehicular trespass.

h. Coordination with Neighbors and Community

- Continue to coordinate with local community leaders, State Parks, The Nature Conservancy and neighbors to ensure that the ecological goals for the property are met.

C. Gila River

The McEuen and Hancock properties are the first properties acquired by SRP on the Gila River for Roosevelt HCP mitigation. Almost all acreage is in the river bottom, with a few acres on the adjacent floodplain to allow for access into the properties. The riparian habitat on the properties is dominated by tall, dense saltcedar. SRP is unaware of any flycatcher or cuckoo surveys having been conducted on these specific properties in the past. However, flycatchers have been detected on nearby lands in previous years.

1. HANCOCK AND MCEUEN PROEPRTIES

Table 14. Summary – Hancock-McEuen Properties	
Purchased from	J. Hancock; G. McEuen; R. McEuen
Close of escrow	8/5/04
Total acreage	308 acres
Estimated riparian acreage	304 acres
Estimated buffer acreage:	4 acres
Property management entity	SRP
Status of Baseline Inventory	Due one year after COE
Status of Management Plan	Due one year after COE

Monitoring Activities in 2004:

None.

Management Actions Completed in 2004:

a. On-Site Management

- SRP hired a property manager for the Roosevelt HCP mitigation properties in March 2004.

Monitoring and Management Actions Planned for 2005:

a. Birds Surveys

- Contract with qualified biologists to conduct flycatcher and cuckoo surveys on this Property in 2005.

b. Cowbird Management

- No action is proposed for 2005. However, the results of 2005 baseline flycatcher surveys will be used to evaluate whether a brown-headed cowbird management program is necessary and, if so, what type and degree of actions would be most effective.

c. Vegetation monitoring – photo points

- Establish photo points on the property in 2005.

d. Baseline Inventory and Management Plan

- Complete a baseline inventory of the property and develop a management plan based on an evaluation of inventory data and property conditions.

e. Wildfire Abatement

- Complete a Wildfire Abatement and Response Plan and disseminate the plan to the appropriate agencies.

f. Fencing and Access

- Acquire easements for access roads and fences. Develop access roads and fences on riverbanks and floodplain.

GILA RIVER MITIGATION PROPERTY: MCEUEN
T5S R24E, SECTIONS 7 and 18

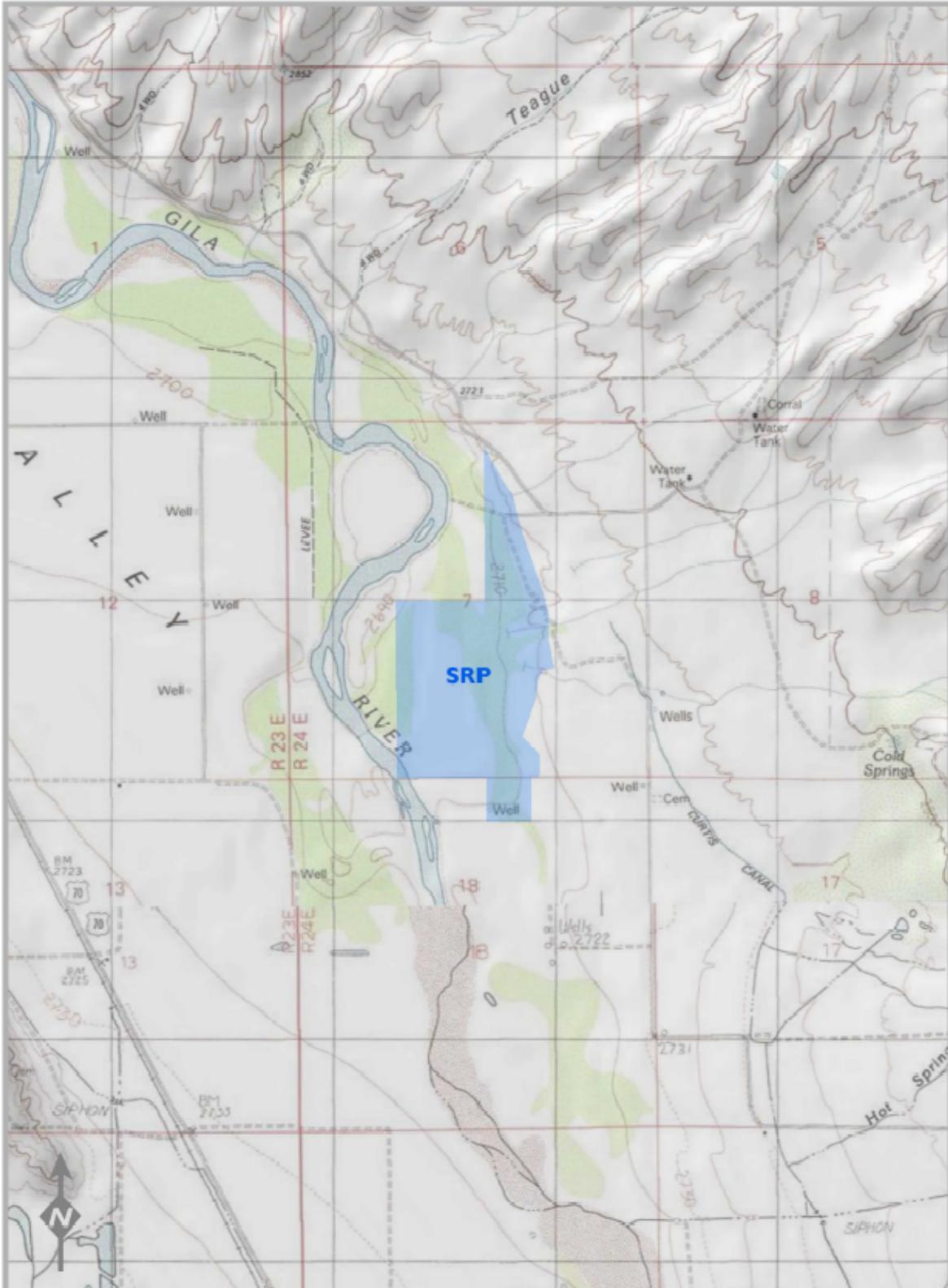


Figure 11. Hancock and McEuen Properties

01/25/05 mceuen.mxd

g. On-Site Management

- On average, conduct weekly patrols of the property.
- Conduct general maintenance activities, as needed.

h. Coordination with Neighbors

- Develop positive relationships with neighboring landowners and land managers.

V. OTHER MEASURES

Fort McDowell Yavapai Nation Project

In August 2001, SRP began discussions with the Fort McDowell Yavapai Nation (FMYN) regarding a possible joint venture to conserve and restore riparian habitat along the Verde River on FMYN lands just above the confluence with the Salt River. A draft grant agreement was drafted by SRP's Legal Department and was sent to FMYN for their review on October 6, 2003. SRP never received a response regarding the grant agreement. However, we were notified that there was a complete change in personnel at FMYN. We will have to begin discussions and negotiations again with new staff. No actions were taken on this project in 2004.

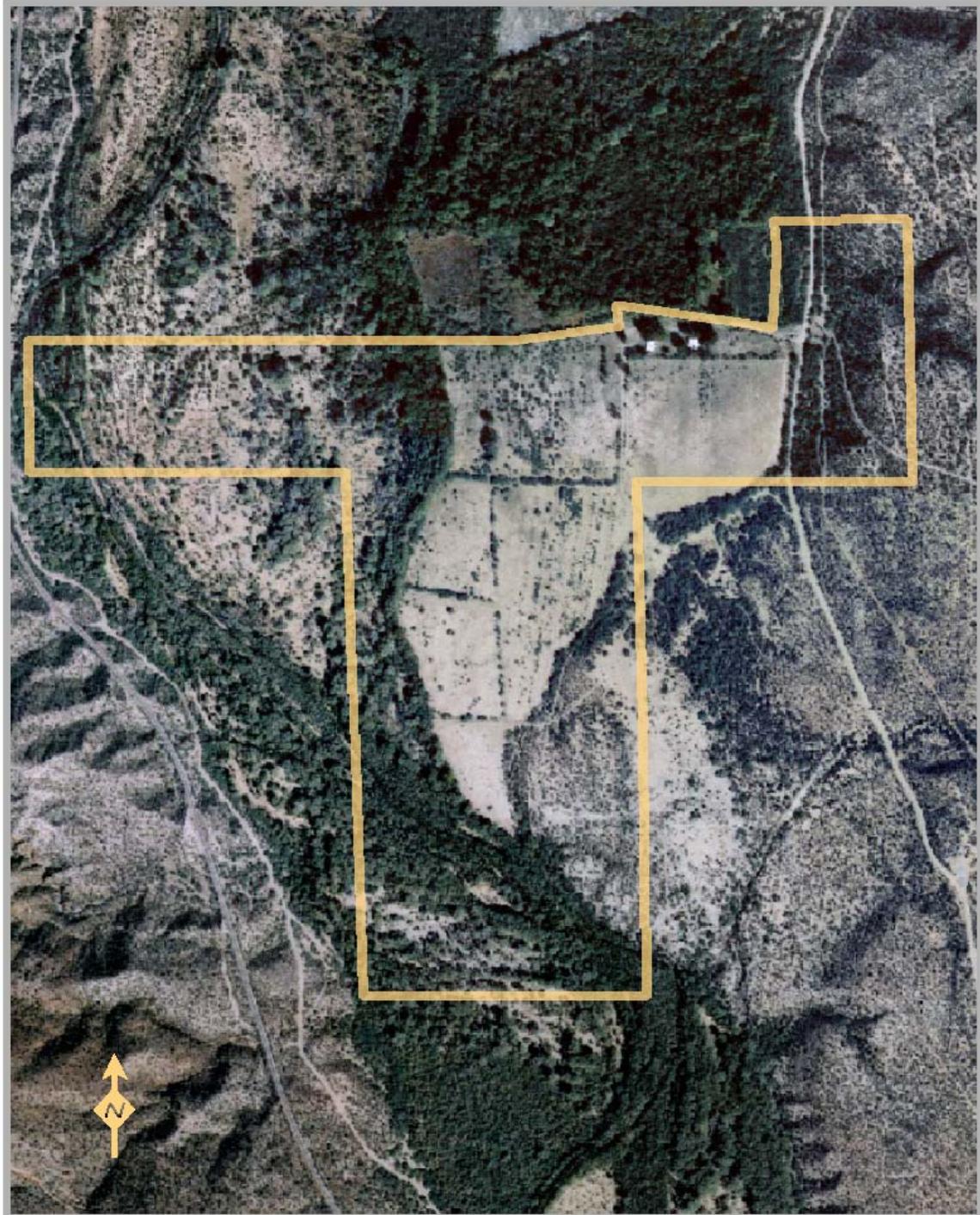
LITERATURE CITED

- Burger, B. 2004a. Memorandum to Leslie Fitzpatrick, U.S. Fish and Wildlife Service, June 14, 2004.
- Burger, B. 2004b. Revised memorandum to Leslie Fitzpatrick, U.S. Fish and Wildlife Service, October 27, 2004.
- English, Heather, Nongame Birds Biologist, Arizona Game and Fish Department, Phoenix, AZ.
- Halterman, M. and M. Johnson. 2003. Draft western yellow-billed cuckoo natural history summary and survey methodology. Southern Sierra Research Station, Weldon, CA and Colorado Plateau Field Station, Flagstaff, AZ.
- Paxon, Eben, Biologist, U.S. Geological Survey, Biological Science Center, Colorado Plateau Research Station at Northern Arizona University, Flagstaff, AZ.
- Salt River Project. 2002. Roosevelt Habitat Conservation Plan, Gila and Maricopa Counties, submitted to the U.S. Fish and Wildlife Service, Volume II of the Final Environmental Impact Statement for the Roosevelt Habitat Conservation Plan, Phoenix, AZ.
- Smith, A.B., P.E.T. Dockens, A.A. Tudor, H.C. English, B.L. Allen. 2004. Southwestern willow flycatcher 2003 survey and nest monitoring report. Nongame and Endangered Wildlife Program Tech. Rep. 233. Arizona Game and Fish Department, Phoenix, AZ.
- Sogge, M. K., R. M. Marshall, S. J. Sferra and T.J. Tibbits. 1997. A southwestern willow flycatcher natural history summary and survey protocol. Tech. Rep. NPS/NAUCPRS/NRTR-97/12. USGS Colorado Plateau Research Station, Northern Arizona University, Flagstaff, AZ.
- Tudor, April, Southwestern Willow Flycatcher Coordinator, Arizona Game and Fish Department, Phoenix, AZ.
- U.S. Fish and Wildlife Service. 2000. Southwestern willow flycatcher protocol revision. Albuquerque, NM.
- U.S. Fish and Wildlife Service. 2002. Final Environmental Impact Statement for the Roosevelt Habitat Conservation Plan, Gila and Maricopa Counties, Arizona. Volume I, Phoenix, AZ.

APPENDIX A

AERIAL PHOTOGRAPHS
OF
MITIGATION PROPERTIES

**SAN PEDRO MITIGATION PROPERTY: ADOBE PRESERVE
T6S & T7S R16E, SECTIONS 4 & 5**



07/07/04 adobepreserve.mxd

**SAN PEDRO MITIGATION PROPERTY: BLACK FARM PRESERVE
T7S R16E, SECTIONS 9 & 10**



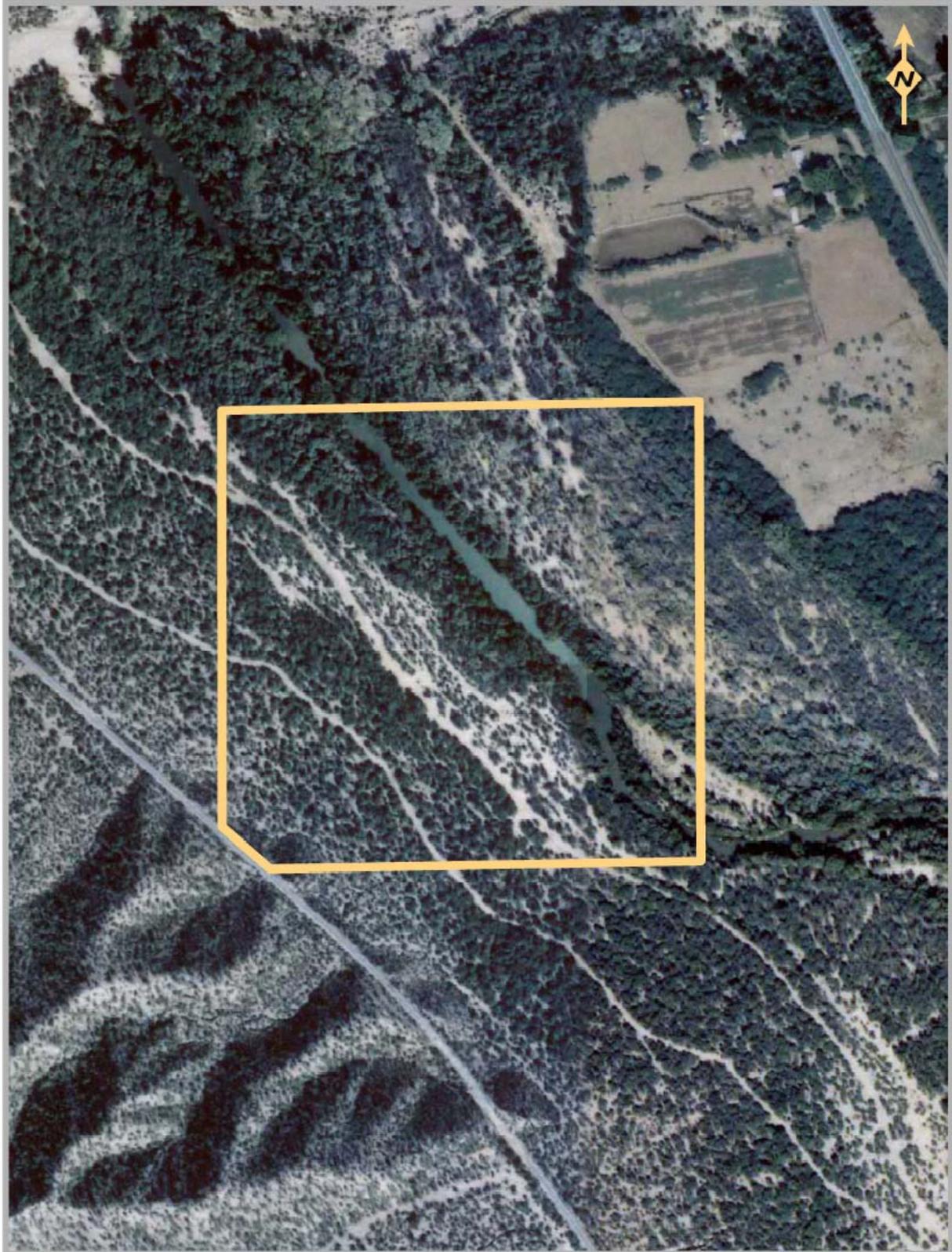
07/07/04 blackfarm.mxd

SAN PEDRO MITIGATION PROPERTY: SPIRIT HOLLOW PRESERVE
T10S R18E, SECTIONS 8 & 9



10/05/04 spirithollow.mxd

SAN PEDRO MITIGATION PROPERTY: STILLINGER
T7S R16E, SECTION 9



11/01/04 stillinger.mxd

**HABITAT CONSERVATION PLAN, VERDE RIVER: BETA VENTURES PROPERTY
T14N R4E, SECTIONS 24 & 25**

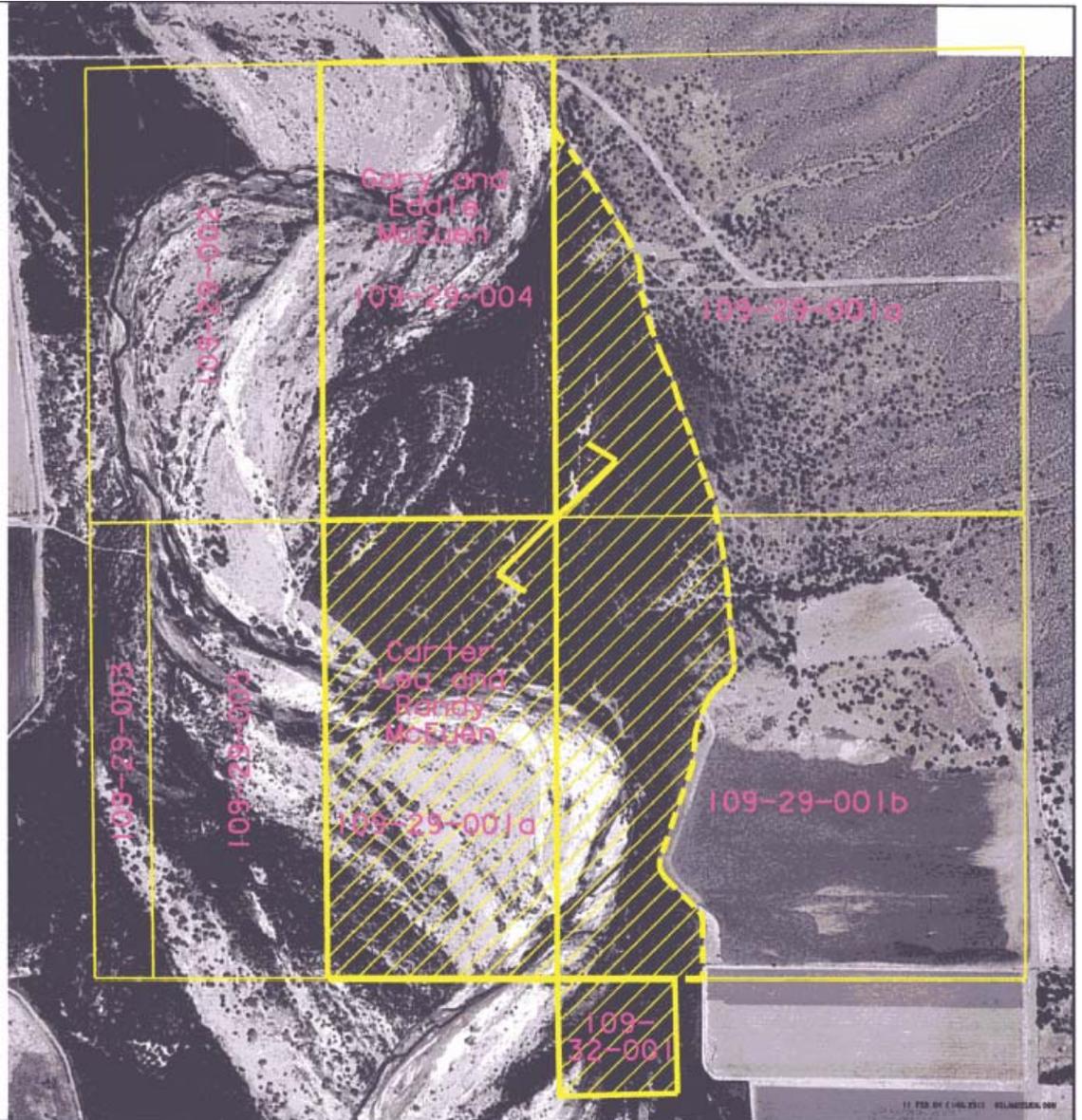


07/07/04 betaventures.mxd

Exhibit "A"
McEuen
Property

Sections 7 and 18
Township 5 South
Range 24 East

Approximate 200
acres to be
confirmed by
survey.



The parcels acquired by SRP are indicated by hatch-marked areas.

APPENDIX B

MANAGEMENT ACTION MATRICES

**Adobe Preserve
Black Farms Preserve
Spirit Hollow Preserve
Beta Ventures Property**

Adobe Preserve – Management Activity Implementation Matrix

MANAGEMENT ACTIONS	Status	Target Date	Department
Baseline Inventory and Management Plan			
Baseline Inventory	Completed		SRP Env. Svc.
Management Plan	Draft Completed		SRP Env. Svc.
Water Rights and Use:			
Submit water rights claim form to ADWR	Completed		SRP Water Rights
Complete the transfer of water rights on property, except for domestic use	In process	May 2006	SRP Water Rights
Formally cap and abandon irrigation well	Not started	After S&T is completed	SRP Groundwater
Cowbird Management:			
Coordinate with FWS and BOR to monitor parasitism rates in area	On-going	Annual review	SRP Env. Svc. Cooperators
Conduct cowbird trapping	Not started	Annual review	SRP Env. Svc. Cooperators
Livestock grazing and recreational disturbance:			
Remove all trespass livestock prior to fence completion	Completed	September 2004	TAG contractor Livestock owner(s)
Fire Management:			
Develop a fire management plan in coordination with fire management agencies	Completed	October 2004	SRP Env. Svc. Contractors
Patrol site regularly to identify and eliminate potential fire hazards; clearing, mowing, etc.	On-going	Conducted weekly, on average	TAG Employee
Make initial contact and maintain close coordination with wildfire response agencies	In process	November/December 2004	SRP Env. Svc. TAG Employee
Fencing and Gates:			
Secure agreement with ASARCO and neighbors to fence across river	Completed	September 2004	SRP Land Dept. SRP Env. Svc.

Send SRP survey crew to remark boundary for fencing across the river and riparian area.	In process	November 2004	SRP Survey SRP Env. Svc.
Compile RFP for fencing contractor	Completed	October 2004	SRP Env. Svc.
Contract with fencing company.	In process	November 2004	SRP Env. Svc. SRP Purchasing
Install wildlife friendly barbed wire fencing around the remaining perimeter of the property.	Not started	Feb/March 2005	Contractor
Remove or secure all cross-fencing on property	Completed	October 2004	TAG Contractor
Conduct regular fence patrol to check for breaches. Inspect fence line after every flood event.	On-going	Conducted weekly, on average	TAG Contractor
Restoration of Uplands Fields:			
Evaluate the need for riparian habitat restoration	Completed	Not necessary at this time	Env. Svc.
Evaluate potential to re-establish native grasses and forbs on abandoned fields	Not started	January 2007	Env. Svc. Agric. Spec. TAG contractor
Develop a restoration plan for fields	Not started	March 2007	Env. Svc. Agric. Spec. TAG contractor
Begin implementation of restoration plan	Not started	July 2007	Env. Svc. Agric. Spec. TAG contractor
On-Site Management			
Hire a property maintenance technician	Completed	March 2004	SRP Env. Svc.
Maintain and repair existing fences and roads	On-going	As needed	TAG Employee
Conduct general maintenance	On-going	As needed	TAG Employee
Invasive Plant and Animal Control:			
Survey the property to determine presence and extent of invasive elements	Not started	September 2005	Env. Svc. Contractor
Develop plan to minimize or eliminate problem species	Not started	Depends on results of survey	Env. Svc. Contractor
Minimize the spread of saltcedar	No actions planned at this time	When deemed necessary	

Facilities Management:			
Cap and abandon the irrigation well	Not started	After sever and transfer is completed	SRP Water rights SRP Env. Svc.
Implement actions for domestic well	Not started	April 2005	SRP Env. Svc. Contractor
Conservation Easement:			
Locate an entity to hold the conservation easement	Not started	TBD	Env. Svc. Land
Complete conservation easement	Not started	TBD	Env. Svc.
Community Support:			
Contact neighbors, maintain working relationships	On-going	On-going	TAG Employee SRP Env. Svc.
Presentation to Winkelman NRCD	Not started	TBD	Env. Svc. TAG contractor

Black Farm Preserve – Management Activity Implementation Matrix

MANAGEMENT ACTIONS	Status	Target Date	Department
Baseline Inventory and Management Plan:			
Draft a baseline inventory and management plan	Draft completed	October 2004	Env. Svc.
Finalize plan and distribute to cooperators	Awaiting FWS comment	December 2004	Env. Svc.
Water Rights and Use:			
Submit water rights claim form to ADWR	Completed		SRP Water Rights
Complete the transfer of water rights on property, except for domestic use	In process	May 2006	SRP Water Rights
Formally cap and abandon irrigation well	Not started	After S&T is completed	SRP Groundwater
Cowbird Management:			
Coordinate with FWS and BOR to monitor parasitism rates	Not started	TBD at annual meeting	Env. Svc. Contractor
Conduct cowbird trapping	Not started	TBD	Contractor
Wildfire Abatement:			
Develop a fire management plan in coordination with fire management agencies	Completed	October 2004	Env. Svc. Contractor
Patrol site regularly to identify and eliminate potential fire hazards	On-going	Conducted weekly, on average	TAG Contractor
Make initial contact with local fire-fighting org. and wildfire response agencies; send copies of plan	In process	November 2004	Env. Svc. TAG Contractor
Familiarize SRP employees with protocols	In process	January 2005, on-going	Env. Svc.
Fencing:			
Send SRP survey crew to mark boundary for fencing across the river and riparian area.	In process	October/Nov 2004	SRP Survey Env. Svc.
Compile RFP for fencing contractor	In process	October/Nov 2004	Env. Svc.
Contract with fencing company.	Not started	November 2004	Env. Svc.
Install wildlife friendly barbed wire fencing around the remaining perimeter of the property	Not started	Feb/March 2005	Contractor

Conduct regular fence patrol to check for breaches. Inspect fence line after every flood event.	On-going	Weekly, on average	TAG Contractor
Restoration of Upland Fields:			
Plant native grasses and forbs on agricultural fields – South & northeast fields, 28 acres	Completed	July 2004	Agric. contractor TAG contractor
Plant native grasses and forbs on agricultural fields – North field, 10 acres	Completed	October 2004	Agric. contractor TAG contractor
Plant native grasses and forbs on agricultural fields – West and East field, 60 acres	Not started	April 2005	Agric. contractor TAG contractor
Conduct irrigation as necessary	On-going during growing season	To be completed prior to S&T	Agric. Contractor TAG contractor
On-Site Management:			
Hire a property maintenance technician	Completed	March 2004	Env. Svc.
Patrol property and fence lines	On-going	Weekly, on average	TAG contractor
Remove trespass livestock	On-going	As necessary	TAG contractor
Conduct general maintenance activities	On-going	As necessary	TAG contractor
Invasive Plant Control:			
Consult with NRCS Plant Materials Center on best herbicides to use on invasive weeds in agricultural fields; get recommendations	Completed	August 2004	Env. Svc.
Get all applicator certifications for herbicide use; Arizona Department of Agriculture	Completed	September 2004	Env. Svc. Contractor
Determine need for herbicide spraying or mowing of agricultural fields during irrigation of areas seeded with native grasses	On-going	Weekly coordination to determine need during growing season	Env. Svc. Contractor
Coordination with Neighbors and Community:			
Coordinate activities with adjacent landowners	Completed	March 2003	Env. Svc.
Hold on-site meeting with NRCS and Winkelman NRCD	Completed	March 2003	Env. Svc.

Spirit Hollow – Management Activity Implementation Matrix

MANAGEMENT ACTIONS	Status	Target Date	Department
Baseline Inventory and Management Plan			
Baseline Inventory	In process	January 31, 2005	SRP Env. Svc.
Management Plan	In process	January 31, 2005	SRP Env. Svc.
Cowbird Management:			
Coordinate with FWS and BOR to monitor parasitism rates in area	On-going	Annual review	SRP Env. Svc. Cooperators
Conduct cowbird trapping	Not started	Annual review	SRP Env. Svc. Cooperators
Livestock grazing and recreational disturbance:			
Remove all trespass livestock prior to fence completion	Completed	September 2004	TAG contractor Livestock owner(s)
Wildfire Abatement:			
Develop a fire management plan in coordination with fire management agencies	Draft completed	October 2004	SRP Env. Svc. Contractors
Patrol site regularly to identify and eliminate potential fire hazards; clearing, mowing, etc.	On-going	Conducted weekly, on average	TAG Employee
Make initial contact and maintain close coordination with wildfire response agencies	In process	November/December 2004	SRP Env. Svc. TAG Employee
Fencing:			
Send SRP survey crew to remark boundary for fencing across the river and riparian area.	In process	November 2004	SRP Survey SRP Env. Svc.
Compile RFP for fencing contractor	Completed	October 2004	SRP Env. Svc.
Contract with fencing company.	In process	November 2004	SRP Env. Svc. SRP Purchasing
Install wildlife friendly barbed wire fencing around the perimeter of the property.	In process	Feb/March 2005	Contractor
Remove or secure all cross-fencing on property	Not started	March 2005	TAG Contractor

Conduct regular fence patrol to check for breaches. Inspect fence line after every flood event.	On-going	Conducted weekly, on average	TAG Contractor
On-Site Management			
Hire a property maintenance technician	Completed	March 2004	SRP Env. Svc.
Maintain and repair existing fences and roads	On-going	As needed	TAG Employee
Conduct general maintenance	On-going	As needed	TAG Employee
Invasive Plant and Animal Control:			
Survey the property to determine presence and extent of invasive elements	Not started	September 2005	Env. Svc. Contractor
Develop plan to minimize or eliminate problem species	Not started	Depends on results of survey	Env. Svc. Contractor
Minimize the spread of saltcedar	No actions planned at this time	When deemed necessary	
Facilities Management:			
Evaluate condition of well on Sonberg parcel	Not started	August 2005	SRP Water rights SRP Env. Svc.
Locate monitoring piezometers installed by ASU	Not started	August 2005	SRP Env. Svc. ASU
Conservation Easement:			
Locate an entity to hold the conservation easement	Not started	TBD	Env. Svc. Land
Complete conservation easement	Not started	TBD	Env. Svc.
Community Support:			
Contact neighbors, maintain working relationships	On-going	On-going	TAG Employee SRP Env. Svc.

Beta Ventures Property – Management Activity Implementation Matrix

MANAGEMENT ACTIONS	Status	Target Date	Department
Baseline Inventory and Management Plan			
Baseline Inventory	In process	January 31, 2005	SRP Env. Svc./Contractor
Management Plan	In process	January 31, 2005	SRP Env. Svc./Contractor
Cowbird Management:			
Coordinate with FWS and BOR to monitor parasitism rates in area	On-going	Annual review	SRP Env. Svc. Cooperators
Conduct cowbird trapping	Not started	Annual review	SRP Env. Svc. Cooperators
Livestock grazing and recreational disturbance:			
Remove any trespass livestock	On-going	As necessary	TAG contractor Livestock owner(s)
Wildfire Abatement:			
Develop a fire management plan in coordination with fire management agencies	Not started	June 2005	SRP Env. Svc. Contractors
Patrol site regularly to identify and eliminate potential fire hazards; clearing, mowing, etc.	On-going	Conducted weekly, on average	TAG Employee
Make initial contact and maintain close coordination with wildfire response agencies	Not started	June 2005	SRP Env. Svc. TAG Employee
Boundary Issues / Fencing:			
Send SRP survey crew to remark boundary for fencing	Completed	April 2004	SRP Survey SRP Env. Svc.
Compile RFP for fencing contractor	Completed	September 2004	SRP Env. Svc.
Contract with fencing company.	Completed	September 2004	SRP Env. Svc. SRP Purchasing
Install wildlife friendly barbed wire fencing along the southern of the property.	Completed	December 2004	Contractor
Remove or secure all cross-fencing on property	In process	November 2004	Contractor

Conduct regular fence patrol to check for breaches. Inspect fence line after every flood event.	On-going	Conducted weekly, on average	TAG Contractor
Complete fencing along the north and east boundaries	Not started	May 2005	Contractor
Work w/ adjacent landowners to minimize impacts from I-17 bridge access point.	On-going	On-going	Env. Svc. TAG Contractor
On-Site Management			
Hire a property maintenance technician	Not started	March 2005	SRP Env. Svc.
Maintain and repair existing fences and roads	On-going	As needed	SRP Env. Svc.
Conduct general maintenance	On-going	As needed	SRP Env. Svc. Contractors
Conservation Easement:			
Locate an entity to hold the conservation easement	Not started	TBD	Env. Svc. Land
Complete conservation easement	Not started	TBD	Env. Svc.
Community Support:			
Contact neighbors, maintain working relationships	On-going	On-going	SRP Env. Svc.

APPENDIX C

SUMMARY TABLES FOR MONITORING ACTIVITIES

ROOSEVELT HCP MITIGATION PROPERTIES

Table C-1: Summary of Flycatcher Monitoring on Mitigation Lands

Preserve Name	Acquisition Date	Habitat Acres	2003	2004	2005
San Pedro River					
Adobe	9/2002	54	BOR/AGFD	BOR/AGFD	BOR/AGFD
Stillinger	6/2004	40		BOR/AGFD	BOR/AGFD
Spirit Hollow	7/2003; 7/2004	125	BOR/AGFD	BOR/AGFD	BOR/AGFD
Black Farm	1/2003	0	Undeveloped habitat	Undeveloped habitat	Undeveloped habitat
Verde River					
Beta Ventures	1/2004	125		SRP contractor	SRP contractor
Gila River					
Hancock/McEuen	8/2004	308			SRP contractor

Table C-2: Summary of Cuckoo Monitoring on Mitigation Lands

Preserve Name	Acquisition Date	Habitat Acres	2003	2004	2005
San Pedro River					
Adobe	9/2002	154	NAU/CPRS	NAU/CPRS	SRP Contractor
Stillinger	6/2004	40			SRP Contractor
Spirit Hollow	7/2003;7/2004	140	NAU/CPRS	NAU/CPRS	SRP Contractor
Black Farm	1/2003	37	Undeveloped habitat	Undeveloped habitat	Undeveloped habitat
Verde River					
Beta Ventures	1/2004	125		SRP Contractor	SRP Contractor
Gila River					
Hancock/McEuen	8/2004	308			SRP Contractor

Table C-3. Summary of Vegetation Monitoring – Photo points

Preserve Name	Acquisition Date	# of Photo points	2003	2004	2005
San Pedro River					
Adobe	9/2002	9	10/9/03	10/20/04	
Stillingr	6/2004	0			Establish photo points
Spirit Hollow	7/2003;7/2004				Establish photo points
Black Farm	1/2003	5		6/17/04 10/20/04	
Verde River					
Beta Ventures	1/2004	0			Establish photo points
Gila River					
Hancock/McEuen	8/2004	0			Establish photo points
Roosevelt Lake					
Rockhouse Project	N/A	5		5/3/04 10/13/04	

Table C-4. Summary of Cowbird Trapping Activities:

Preserve Name	Acquisition Date	Habitat Acres	2003	2004	2005
San Pedro River					
Adobe	9/2002	54	BOR	None	None
Stillingr	6/2004	40			None
Spirit Hollow	7/2003;7/2004	125		None	???
Black Farm	1/2003	0		None	???
Verde River					
Beta Ventures	1/2004	125	SWCA for Harvard Inv.	SWCA for Harvard Inv.	???
Gila River					
Hancock/McEuen	8/2004	308			Establish baseline with bird surveys

APPENDIX D

**RESULTS OF PHOTO POINT MONITORING
ADOBE PRESERVE
San Pedro River**

Adobe Preserve Photo Point Record
Photo Point 1- View 1



October 9, 2003



October 20, 2004

Adobe Preserve Photo Point Record
Photo Point 1- View 2



October 9, 2003



October 20, 2004

Adobe Preserve Photo Point Record
Photo Point 2- View 1



October 9, 2003



October 20, 2004

Adobe Preserve Photo Point Record
Photo Point 2- View 2



October 9, 2003



October 20, 2004

Adobe Preserve Photo Point Record
Photo Point 3- View 1



October 9, 2003



October 20, 2004

Adobe Preserve Photo Point Record
Photo Point 3- View 2



October 9, 2003



October 20, 2004

Adobe Preserve Photo Point Record
Photo Point 3- View 3



October 9, 2003



October 20, 2004

Adobe Preserve Photo Point Record
Photo Point 4- View 1



October 9, 2003



October 20, 2004

Adobe Preserve Photo Point Record
Photo Point 4- View 2



October 9, 2003



October 20, 2004

Adobe Preserve Photo Point Record
Photo Point 5- View 1



October 9, 2003



October 20, 2004

Adobe Preserve Photo Point Record
Photo Point 6- View 1



October 9, 2003



October 20, 2004

Adobe Preserve Photo Point Record
Photo Point 6- View 2



October 9, 2003



October 20, 2004

Adobe Preserve Photo Point Record
Photo Point 7- View 1



October 9, 2003



October 20, 2004

Adobe Preserve Photo Point Record

Photo Point 8- View 1

Established in 2004



October 20, 2004

Photo Point 8- View 2

Established in 2004



October 20, 2004\

Adobe Preserve Photo Point Record

Photo Point 9- View 1

Established in 2004



October 20, 2004

Photo Point 9- View 2

Established in 2004



October 20, 2004

Adobe Preserve Photo Point Record
Photo Point 9- View 3
Established in 2004



October 20, 2004

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APPENDIX E

**RESULTS OF PHOTO POINT MONITORING
BLACK FARM PRESERVE
Aravaipa Creek**

Black Farm Preserve Photo Point Record
Photo Point 1- View 1



June 17, 2004



October 20, 2004

Black Farm Preserve Photo Point Record
Photo Point 1- View 2



June 17, 2004



October 20, 2004

Black Farm Preserve Photo Point Record
Photo Point 2- View 1



June 17, 2004



October 20, 2004

Black Farm Preserve Photo Point Record
Photo Point 2- View 2



June 17, 2004



October 20, 2004

Black Farm Preserve Photo Point Record
Photo Point 3- View 1



June 17, 2004



October 20, 2004

Black Farm Preserve Photo Point Record
Photo Point 3- View 2



June 17, 2004



October 20, 2004

Black Farm Preserve Photo Point Record
Photo Point 3- View 3



June 17, 2004



October 20, 2004

Black Farm Preserve Photo Point Record
Photo Point 4- View 1



June 17, 2004



October 20, 2004

Black Farm Preserve Photo Point Record
Photo Point 4- View 2



June 17, 2004



October 20, 2004

Black Farm Preserve Photo Point Record
Photo Point 5- View 1



June 17, 2004



October 20, 2004

Black Farm Preserve Photo Point Record
Photo Point 5- View 2



June 17, 2004



October 20, 2004

Black Farm Preserve Photo Point Record
Photo Point 5- View 3



June 17, 2004



November 11, 2004

APPENDIX F

RESULTS OF PHOTO POINT MONITORING
ROCKHOUSE PROJECT
Roosevelt Lake

Rockhouse Photo Point Record
Photo Point 1- View 1



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 1- View 2



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 1- View 3



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 1- View 4



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 2- View 1



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 2- View 2



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 2- View 3



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 2- View 4



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 2- View 5



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 2- View 6



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 2- View 7



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 3- View 1



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 3- View 2



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 3- View 3



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 4- View 1



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 4- View 2



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 4- View 3



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 4- View 4



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 4- View 5



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 5- View 1



May 3, 2004



October 13, 2004

Rockhouse Photo Point Record
Photo Point 5- View 2



May 3, 2004



October 13, 2004

APPENDIX G

RESULTS OF YELLOW-BILLED CUCKOO MONITORING

**“Yellow-billed cuckoo distribution and abundance,
habitat, use and breeding ecology in select habitats
Roosevelt Habitat Conservation Plan”**

APPENDIX H

RESULTS OF SOUTHWESTERN WILLOW FLYCATCHER MONITORING, VERDE RIVER

**“Year 2004 – Southwestern willow flycatcher and yellow-billed
cuckoo surveys at the Camp Verde Beta Ventures property, Verde River,
Yavapai County, Arizona”**