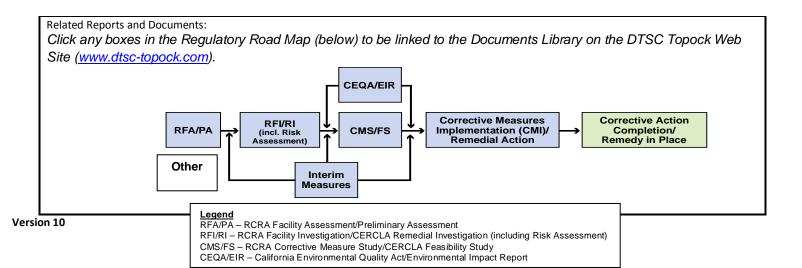
Topock Project Executive Abstract		
Document Title:	Date of Document: December 31, 2012	
2012 Southwestern Willow Flycatcher Presence/Absence Surveys for the PG&E Topock Compressor Station Needles, California Final Document? Yes No	Who Created this Document?: (i.e. PG&E, DTSC, DOI, Other) PG&E	
Priority Status: HIGH MED LOW Is this time critical? Yes No Type of Document: Draft Report Letter Memo Other / Explain:	Action Required: Information Only Review & Comment Return to: By Date: Other / Explain:	
What does this information pertain to? Resource Conservation and Recovery Act (RCRA) Facility Assessment (RFA)/Preliminary Assessment (PA) RCRA Facility Investigation (RFI)/Remedial Investigation (RI) (including Risk Assessment) Corrective Measures Study (CMS)/Feasibility Study (FS) Corrective Measures Implementation (CMI)/Remedial Action California Environmental Quality Act (CEQA)/Environmental Impact Report (EIR) Interim Measures Other / Explain: Biological Reports	Is this a Regulatory Requirement? ☑ Yes ☐ No If no, why is the document needed?	
What is the consequence of NOT doing this item? What is the consequence of DOING this item?	Other Justification/s: Permit Other / Explain:	
This report is required by the approved Programmatic Biological Assessment (PBA). Not performing the survey and preparing this report constitute non-compliance with the PBA.		
Brief Summary of attached document: The 2012 Southwestern Willow Flycatcher Presence/Absence Surveys Report presents the finding of the five Southwestern Flycatcher (SWFL) protocol surveys conducted between May and July 2012 in areas near the PG&E Topock Compressor Station. Two SWFL (one in CA and one in AZ) were detected during the 2012 surveys.		
Written by: PG&E		
Recommendations: This report is for information only.		
How is this information related to the Final Remedy or Regulatory Requirements:		
The survey and this report fulfill the requirement of project management Measure 26 of the Programmatic Biological Assessment. Other requirements of this information? None.		





Southwestern Willow Flycatcher Presence / Absence Surveys for the PG&E Topock Compressor Station

October 2012

Garcia and Associates Natural and Cultural Resource Consultants









Prepared by:

Garcia and Associates 1 Saunders Avenue San Anselmo, California 94960

2012 Southwestern Willow Flycatcher Presence/Absence Surveys for the PG&E Topock Compressor Station

Prepared by:

Garcia and Associates

Prepared for:

CH2M HILL, Inc. and

Pacific Gas & Electric Co.

October 2012

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Introduction

Under contract to CH2M HILL, Garcia and Associates (GANDA) conducted a protocol survey for the southwestern willow flycatcher (SWFL) (*Empidonax traillii extimus*) for Pacific Gas and Electric (PG&E) near the Topock Compressor Station Groundwater Extraction Project, 15 miles southeast of Needles, California. The purpose of the survey was to determine the presence or absence of SWFL, which are listed as endangered by the Arizona Game and Fish Department (AZGFD) and threatened by the California Department of Fish and Game (CDFG) and the U.S. Fish and Wildlife Service (USFWS). In addition to this year's survey, GANDA conducted six previous surveys at this site (GANDA 2005-2010). All surveys were conducted following the survey protocol outlined in *A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher* (Sogge *et al.* 2010). This report fulfills general project management Measure 26 of the Programmatic Biological Assessment (PBA) prepared for the project (CH2M HILL 2007). Measure 26 states:

Riparian areas surrounding the proposed action site and subject to influence of operations and maintenance activities shall be surveyed for southwestern willow flycatcher according to the protocol established by the USFWS. These surveys shall be completed each year by a biologist permitted by the USFWS to carry out flycatcher surveys until the action has been completed and all facilities have been removed. Reports shall be provided to the biologists in the BLM Lake Havasu Field Office on an annual basis.

Site Description

The survey area consists of twelve sites near the Topock Compressor Station. The sites are located along both sides of the Colorado River. Seven sites are in San Bernardino County, California, and five sites are in Mohave County, Arizona. California sites CA-3, CA-4, and CA-6 are located on land owned by the Bureau of Land Management, sites CA-1 and CA-2 are located in Moabi Regional Park, site CA-5 is in the California portion of the Havasu National Wildlife Refuge, and site CA-7 is on land owned by PG&E (Figures 1 and 2). All Arizona sites are located in the USFWS Havasu National Wildlife Refuge with the exception of site AZ-2, which is on land owned by PG&E (Figures 3 and 4). The survey area increased in 2012 when compared to the previous survey in 2010 - particularly along the Arizona side of the Colorado River – due to potential future Project work in Arizona. The 2012 survey sites total approximately 160 acres and vary in elevation from 300 to 500 feet above sea level. None of the survey sites are located within USFWS designated critical habitat for the SWFL (USFWS 2013). Photographs of the survey sites are provided in Appendix A.

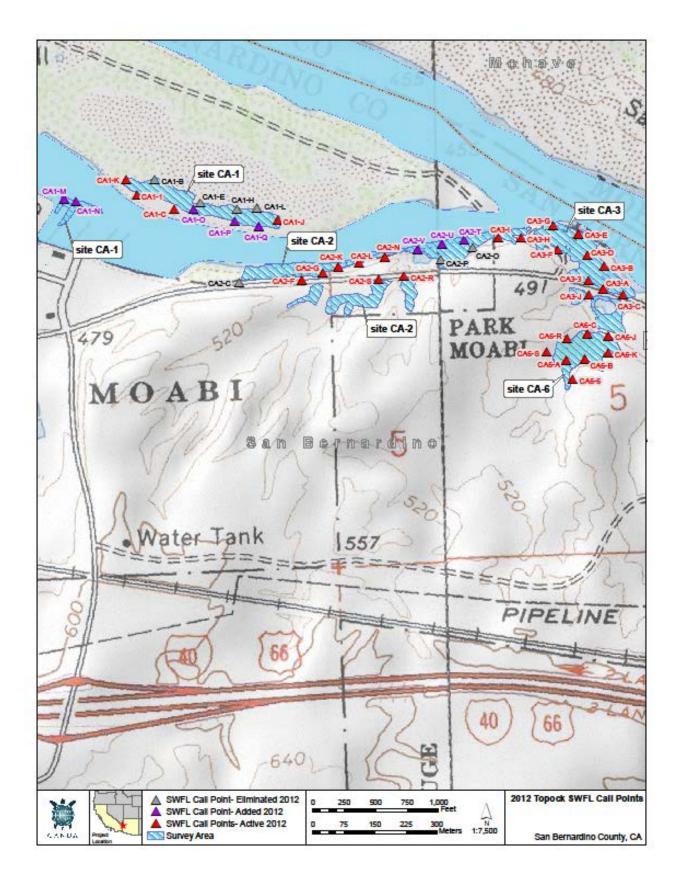


Figure 1. California survey sites CA-1, CA-2, CA-3, and CA-6.

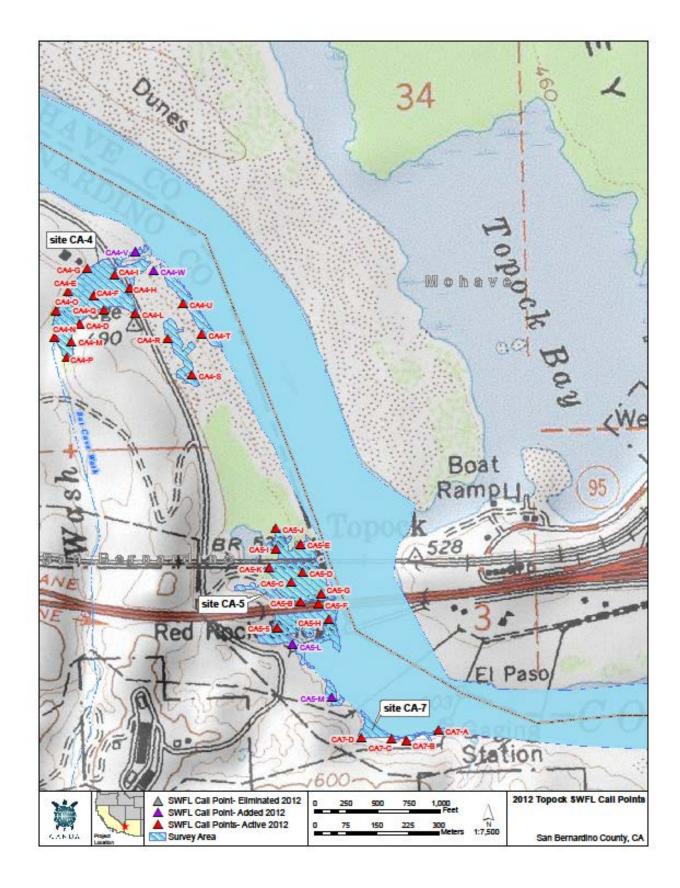


Figure 2. California survey sites CA-4, CA-5, and CA-7.

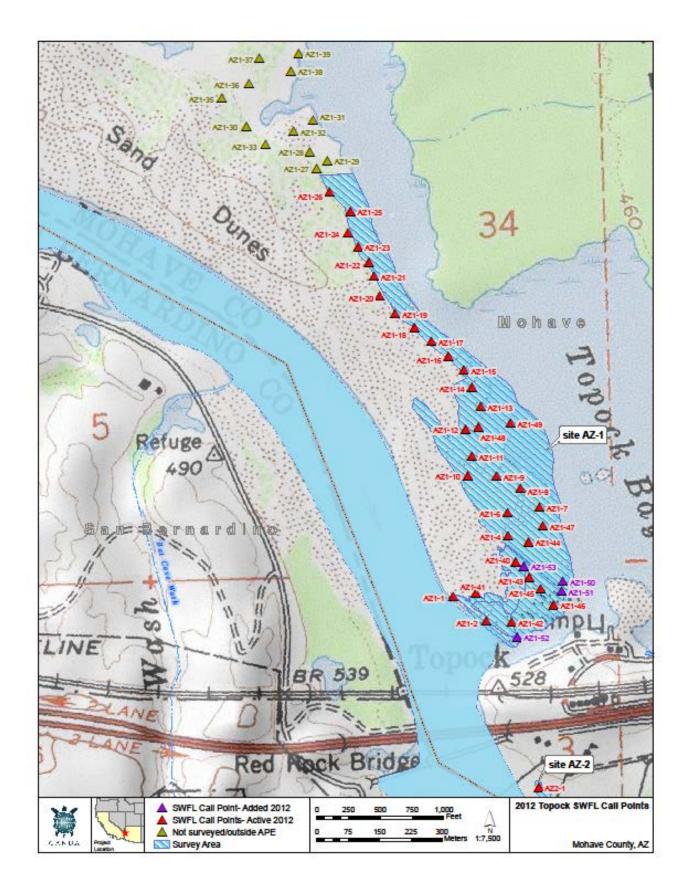


Figure 3. Arizona survey sites AZ-1 and AZ-2.

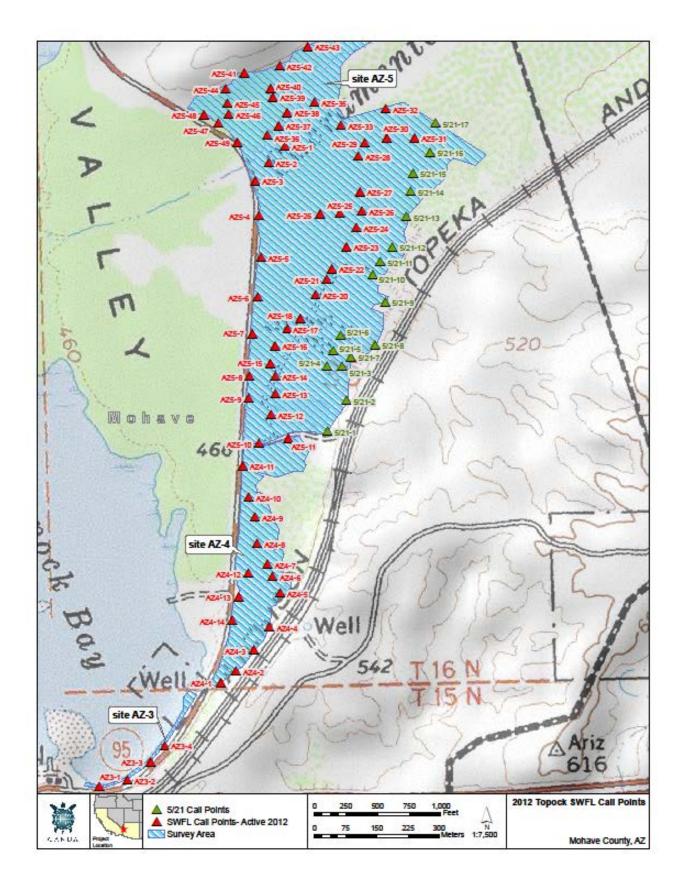


Figure 4. Arizona survey sites AZ-3, AZ-4 and AZ-5.

Vegetation and Habitat Quality

The most abundant plant species in the survey area include tamarisk (*Tamarix ramosissima*), coyote willow (*Salix exigua*), catclaw acacia (*Senegalia greggii*), arrowweed (*Pluchea sericea*), and blue palo verde (Parkinsonia microphylla). Tamarisk is the dominant species throughout the survey area, often forming dense thickets over eight feet in height. A complete list of the plant species observed is included in Appendix B.

Habitat Quality

Overall, the survey area is of moderate habitat quality for SWFL. The Colorado River provides standing surface water throughout the breeding season and includes a suitable vegetation composition; however, habitat fragmentation and human disturbance detract from the overall habitat quality. The California sites (Figures 1 and 2) are small and geographically isolated by the surrounding desert, National Trails Highway, and the Colorado River. Additionally, the California sites are subject to a high level of human disturbance due to their proximity to Park Moabi, Interstate 40, the Burlington Northern Santa Fe Railway, The Pirate Cove Marina, and the PG&E Topock Compressor Station. Arizona site AZ-1 (Figure 3) is located on a large peninsula and is bordered by contiguous riparian habitat and bulrush-dominated marsh. However, this site and the other Arizona sites (Figure 4) are also adjacent to Old Route 66 and the Topock Marina, a community that includes several houses and businesses. Recreational watercraft, frequently observed on the Colorado River and in the Topock Marsh, contribute to regular human disturbance at all locations. Additionally, a fire destroyed a large portion of potential habitat adjacent to the Arizona sites in 2009, and this, combined with the clearance of the vegetation in that area, may be contributing to the degradation of habitat quality for SWFL at these sites (Photo 1). Appendix A provides representative views of each survey site.

Survey Methods

Surveys were conducted by GANDA wildlife biologist Jeff Steinman (USFWS permit #TE-085026-4, AZGFD Permit #SP-7801, and CDFG Permit SC-007801) with exception of the first survey, which was conducted by CH2MHill wildlife biologist Gabriel Valdes (USFWS permit #TE-092622, AZGFD Permit #SP-798144, and CDFG Permit SC-6500) with the assistance of Mr. Steinman. All surveys followed the protocol outlined by Sogge et al. (2010). This protocol replaces the 1997, A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher and the 2000 revision prepared by the USFWS (USFWS 2000). For project related surveys, the 2010 protocol recommends that five surveys be conducted during three survey periods, with two surveys occurring within each of the last two survey periods. The three survey periods are defined as May 15 to 31, June 1 to 24, and June 25 to July 17. Mr. Valdes and Mr. Steinman conducted the initial SWFL survey from May 24 to 25, and Mr. Steinman conducted the remaining four surveys from June 5 to 8, June 19 to 22, June 26 to 30, and July 10 to 13. All surveys were conducted between 05:00 AM and 10:30 AM. Completed survey forms for each site are included in Appendix C.

The habitat quality of the survey sites and the area surrounding them has been re-assessed each year during the first survey period. The reassessment consists of observing each site for an increase or decrease in habitat, either due to an increase in size and density of vegetation or the elimination of habitat due to vegetation removal. Additionally, any changes in the project's Area of Potential Effect (APE) was assessed to determine if any areas should be eliminated or added to the survey area. The following describes changes made to the 2012 survey area surveyed in 2010:

- Call points were eliminated in locations where vegetation had been removed in Moabi Regional Park (Figure 1 and Photo 2 in Appendix A).
 - Eliminated call points; CA1-E, CA1-H, CA1-L, CA2-C, CA2-O and CA2-P.
- Call points were added where habitat quality improved due to an increase in the size and density of the vegetation (AZ-1 and CA-4) or to improve coverage in sites where points were eliminated (CA-1 and CA-2) (Figures 1-3 and Photos 2-4 in Appendix A).
 - o Added call points; CA1-T, CA1-U, CA1-V, CA2-T, CA2-U, CA2-V, CA4-V, CA4-W, CA5-X, AZ1-50, AZ1-51, AZ5-52 and AZ1-53.
- Call points on the north side of survey area AZ-1 were eliminated due to their location outside the study area (Figure 3).
 - o Eliminated call points; AZ1-27 to AZ1-39
- Survey areas were added due to an increase in the size of the project area and it's study area (Appendix A).
 - o Added survey areas; CA-7, AZ-2, AZ-3, AZ-4, AZ-5
- Call points on the west side of survey area CA-1 and the south side of CA-5 were added due to their location inside the expanded study area (Figure 1, 2, and photos 5 and 6 in Appendix A).
 - o Added call points inside the study area; CA1-M, CA1-N, CA5-L and CA5-M.

Of note, survey site AZ-5 was added to the survey schedule late as the result of an unanticipated increase in the potential project footprint. This did not allow for the site to be reviewed prior to the first survey effort. The portion of the site that was surveyed during the first survey on May 21, 2012 only included call points 5/21-1 through 5/21-17. These points were replaced by AZ5-1 through AZ5-49 during the rest of the survey visits. These new call points covered the portion of potential habitat that were closer to the Topock Marsh and included better habitat (Figure 4). Due to this change in survey area, site AZ-5 did not fully conform to the requirements of the survey protocol.

The survey method consisted of using an MP3 player and speaker system to broadcast SWFL calls from established call points. Call points were originally established in the field using aerial photographs, topographic maps, and global positioning system (GPS) units. Call points were placed 30 to 50 meters apart, depending on the quality of the

habitat, thickness of vegetation, and accessibility. The call points were re-located in 2012 using a GPS unit containing their UTM coordinates. Appendix D includes a complete list of call points surveyed in 2012 and their corresponding UTM coordinates.

At each survey site, Mr. Steinman and Mr. Valdes first spent 10 minutes listening for the presence of any singing flycatchers. After this initial listening period, SWFL "fitz-bew" calls were broadcast at each call point for a 30-second period, immediately followed by a 60-second listening period. To reduce bias, start times at each site and the order in which call points were surveyed were intentionally varied from one visit to the next.

Results

SWFL

SWFL were detected on June 5 at call point CA4-V and on June 7 at call point AZ5-8 (Figure 5). Both detections included auditory and visual observations of single birds, with the characteristic "fitz-bew" call heard during both detections. No additional SWFL were detected during any of the other surveys or at any of the other survey sites. Due to the single detection events in both areas, these SWFL are considered to be transients and are not expected to be breeding in the survey area. Transient SWFL had been detected during every previous survey year except 2010, when no SWFL were detected. Previously, SWFL were detected at call points CA2-D in 2005, at CA1-E and AZ1-16 in 2007, call point AZ1-19, AZ1-20, AZ1-30, and AZ1-35 in 2008, and at call point CA4-F in 2009 (GANDA 2005, 2006, 2007, 2008, 2009 and 2010). The locations of all SWFL observations recorded since 2005 are shown in Figure 5. This is the first year that surveys were conducted in the AZ-5 site, and it is unknown if SWFL have been previously recorded in this survey area.

Incidental Species

Many additional wildlife species were observed during the SWFL survey. The diversity and abundance of wildlife species encountered are influenced by the proximity of the survey area to the creosote-dominated desert and the Topock Marsh, a large wetland with abundant wildlife. The most commonly observed non-avian wildlife species were Audubon's cottontail (*Sylvilagus audubonii*), black-tailed jackrabbit (*Lepus californicus*), burro (*Equus asinus*), and western side-blotched lizard (*Uta stansburiana*). The most commonly observed avian species were great-tailed grackle (*Quiscalus mexicanus*), white-winged dove (*Zenaida asiatica*), verdin (*Auriparus flaviceps*), and black-tailed gnatcatcher (*Polioptila melanura*). Complete lists of the avian and non-avian wildlife species observed are included in Appendix B.

Notable observations during the 2012 surveys were detections of Yuma clapper rail (*Rallus longirostris yumanensis*), Arizona Bell's vireo (*Vireo bellii arizonae*), brownheaded cowbird (*Molothrus ater*) and the discovery of a great blue heron nest (*Ardea herodias*). The locations of these observations are shown in Figure 5 and there GPS coordinates are located in Appendix D.

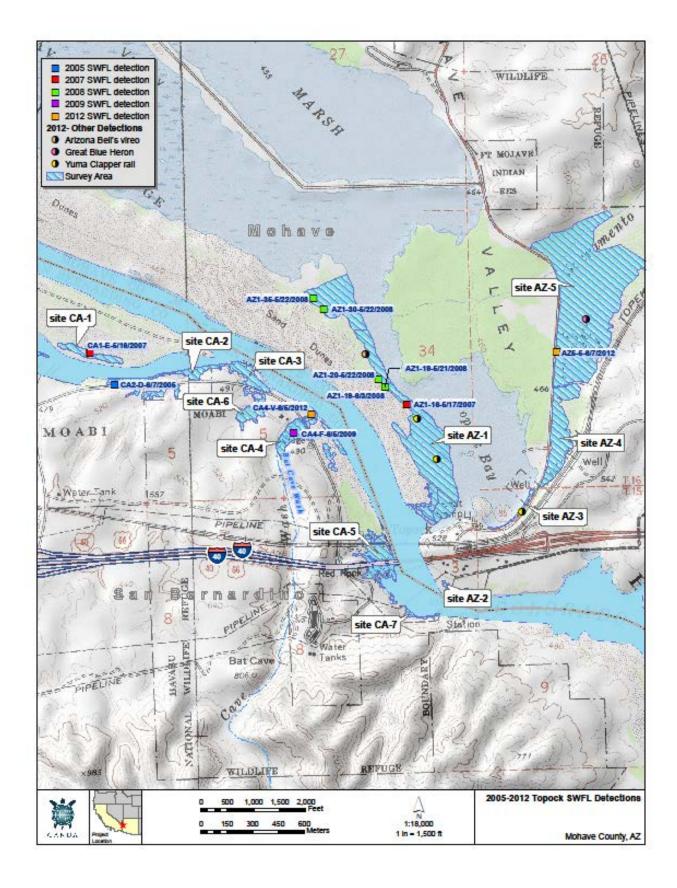


Figure 5. Southwestern willow flycatcher detections (2005-2012).

Yuma clapper rail were heard on multiple occasions in survey sites AZ-1 (6/6, 6/19 and 6/26) and AZ-3 (6/7 and 6/21). The Yuma clapper rail is listed as an endangered species by both the USFWS and CDFG and a species of concern by the AZGFD. This is the fourth survey year that Yuma clapper rails were detected in site AZ-1.

Arizona Bell's vireos (AZBV) were detected in the AZ-1 survey area on June 19 and 26 at call point AZ1-24. Although this species has no Arizona or federal protective status, the California subspecies, least Bell's vireo (*Vireo bellii pusillus*), is listed as endangered in California. This is the sixth season that Arizona Bell's vireo have been observed and they are assumed to be breeding in the area.

Brown-headed cowbirds were observed at three sites in the survey area (AZ-1, AZ-3 and CA-3). Cowbirds have been observed during every survey year and are assumed to be breeding in the project area. Cowbirds are known nest parasites of SWFL and other songbirds, and their presence may be affecting SWFL occurrence in the area.

A great blue heron nest was found in AZ-5 (Figure 5). Active great blue heron nests are protected by the Migratory Bird Treaty Act. Although they have no specific state protection in Arizona, rookeries are protected in some municipalities.

Also of note is that Western yellow-billed cuckoo (*Coccyzus americanus*) were not observed at call point AZ1-16, where they had been observed each year from 2008 through 2010. The western yellow-billed cuckoo is listed as an endangered species by the CDFG, a species of concern by the AZGFD, and is a candidate for listing by the USFWS.

Conclusions

Two SWFL were observed during the 2012 survey. Each observation was a single detection occurring at a time when some SWFL would be expected to be migrating through the area. The absence of additional detections indicates that they were most likely transient SWFL and the species is not currently nesting in the survey areas. This is the first year that additional sites were surveyed in Arizona, and the detection of a SWFL in Arizona site AZ-5 could be a result of either a transient from another area or due to the loss of nesting habitat from the 2009 fire along Topock Marsh. Given the cumulative detections of SWFL over the years, the presence of suitable habitat, and the presence of nearby breeding populations (Ellis, *et al.* 2008, SWCA 2004), there is a potential for SWFL to breed in the survey area in the future. In consultation with PG&E in 2010, the USFWS agreed that SWFL surveys only need to be conducted every two years. However, additional consultation may be warranted to determine if this schedule is applicable for survey areas added in 2012 or to survey site AZ-5, where the first survey round did not conform to survey protocols. There is potential for follow-up surveys to be required in 2013 to account for these variations in the 2012 surveys.

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 - 2006. Southwestern Willow Flycatcher Presence/Absence Surveys for the PG&E Topock Compressor Station Expanded Groundwater Extraction and Treatment System. September.
 - 2007. Southwestern Willow Flycatcher Presence/Absence Surveys for the PG&E Topock Compressor Station. September.
 - 2008. Southwestern Willow Flycatcher Presence/Absence Surveys for the PG&E Topock Compressor Station. September.
 - 2009. Southwestern Willow Flycatcher Presence/Absence Surveys for the PG&E Topock Compressor Station. September.
 - 2010. Southwestern Willow Flycatcher Presence/Absence Surveys for the PG&E Topock Compressor Station. September.
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Appendix A

Photo Log



Photo 1. Burned area cleared of all vegetation adjacent to Arizona sites.

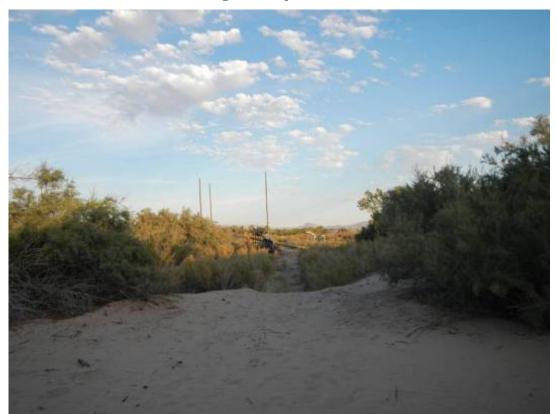


Photo 2. Habitat removed on the east side of site CA-1.



Photo 3. Habitat removed along new trail in site CA-2.



Photo 4. New habitat surveyed in site CA-4.

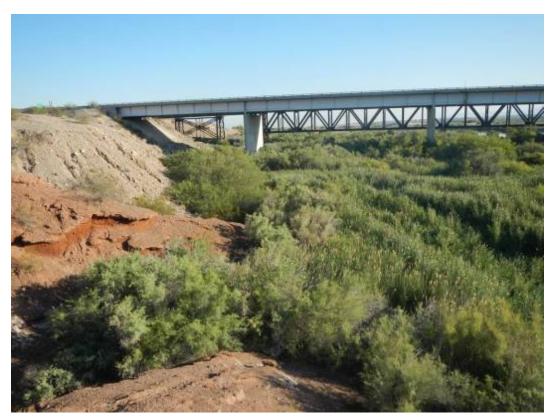


Photo 5. New habitat surveyed in site CA-5.



Photo 6. New habitat surveyed in site CA-1.



Site AZ-1 Overall



Site AZ-1 Exterior



Site AZ-1 Interior



Site AZ-2 Overall



Site AZ-2 Exterior



Site AZ-2 Interior



Site AZ-3 Overall



Site AZ-3 Exterior



Site AZ-3 Interior



Site AZ-4 Overall



Site AZ-4 Exterior



Site AZ-4 Interior



Site AZ-5 Overall



Site AZ-5 Exterior



Site AZ-5 Interior



Site CA-1 Overall



Site CA-1 Exterior



Site CA-1 Interior



Site CA-2 Overall



Site CA-2 Exterior



Site CA-2 Interior



Site CA-3 Overall



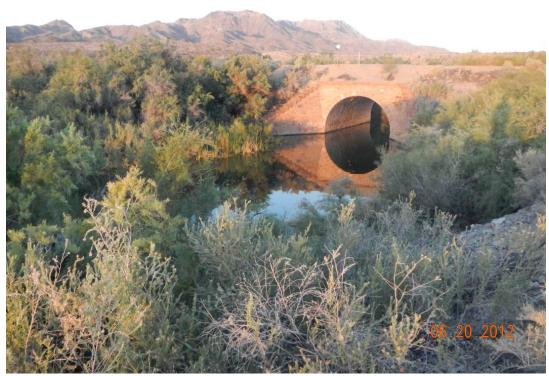
Site CA-3 Exterior



Site CA-3 Interior



Site CA-4 Overall



Site CA-4 Exterior



Site CA-4 Interior



Site CA-5 Overall



Site CA-5 Exterior



Site CA-5 Interior



Site CA-6 Overall



Site CA-6 Exterior



Site CA-6 Interior



Site CA-7 Overall



Site CA-7 Exterior



Site CA-7 Interior

Appendix B

Incidental Plant and Wildlife Species

Table 1. Bird Species Observed

Table 1. Bird Species Observed	
Common Names	Scientific Names
Abert's Towhee	Pipilo aberti
American Coot	Fulica americana
American Kestrel	Falco sparverius
Arizona Bell's Vireo	Vireo bellii
Ash-throated Flycatcher	Myiarchus cinerascens
Black-chinned Hummingbird	Archilochus alexandri
Black-tailed Gnatcatcher	Polioptila melanura
Blue-gray Gnatcatcher	Polioptila caerulea
Brown-headed Cowbird	Molothrus ater
Bushtit	Psaltriparus minimus
California Gull	Larus californicus
Canada Goose	Branta canadensis
Cliff Swallow	Petrochelidon pyrrhonota
Common Merganser	Mergus merganser
Common Raven	Corvus corax
Common Yellowthroat	Geothlypis trichas
Double-crested Cormorant	Phalacrocorax auritus
European Starling	Sturnus vulgaris
Gambel's Quail	Callipepla gambelii
Great Blue Heron	Ardea herodias
Great Egret	Ardea alba
Greater Roadrunner	Geococcyx californianus
Great-tailed Grackle	Quiscalus mexicanus
House Finch	Carpodacus mexicanus
Inca Dove	Columbina inca
Killdeer	Charadrius vociferous
Lesser Nighthawk	Chordeiles acutipennis
Lucy's Warbler	Vermivora luciae
Mallard	Anas platyrhynchos
Mourning Dove	Zenaida macroura
Northern Mockingbird	Mimus polyglottos
Northern Rough-winged Swallow	Stelgidopteryx serripennis
Sharp-shinned Hawk	Accipiter striatus
Song Sparrow	Melospiza melodia
Southwestern Willow Flycatcher	Empidonax traillii extimus
Townsend's Warbler	Dendroica townsendi
Turkey Vulture	Cathartes aura
Verdin	Auriparus flaviceps
Western Kingbird	Tyrannus verticalis
Western Tanager	Piranga ludoviciana
White-faced Ibis	Plegadis chihi
White-winged Dove	Zenaida asiatica
Wilson's Warbler	Wilsonia pusilla
Yellow-billed Cuckoo	Coccyzus americanus
Yellow-breasted Chat	Icteria virens
Yellow-Headed Blackbird	Xanthocephalus xanthocephalus
Yuma Clapper Rail	Rallus longirostris yumanensis

Table 2. Wildlife Species Observed

Common Name	Scientific Name
American Bullfrog	Rana catesbeiana
Antelope Ground-squirrel	Ammospermophilus leucurus
Audubon's Cottontail	Sylvilgus audubonii
Beaver	Castor canadensis
Black-tailed Jackrabbit	Lepus californicus
Buro	Equus asinus
Common Kingsnake	Lampropeltis getula
Coyote	Canis latrans
Desert Cottontail	Sylvilagus audubonii
Desert Iguana	Dipsosaurus dorsalis
Feral Hog	Sus scrofa
Side-blotched Lizard	Uta stanburiana

Table 3. Plant Species Observed

Common Name	Latin Name
Arrowweed	Pluchea sericea
Athel Tamarisk	Tamarix aphylla
Cheesebush	Hymenoclea salsola
Prickly Lettuce	Lactuca serriola
Buckhorn Cholla	Cylindropuntia c.f. achanthocarpa
Silver Cholla	Cylindropuntia echinocarpa
Pencil Cholla	Cylindropuntia ramosissima
California Barrel Cactus	Ferocactus cylindraceus
Beavertail	Opuntia basilaris var. basilaris
Fish-hook Cactus	Mammillaria dioica
Russian Thistle	Salsola tragus
Catclaw Acacia	Senegalia greggii
Blue Palo Verde	Parkinsonia florida
Honey Mesquite	Prosopis glandulosa var torreyana
Tamarisk	Tamarix ramosissima
Cottonwood	Populus deltoides
Coyote Willow	Salix exigua
Gooding's Willow	Salix gooddingii
Cattail	Typha angustifolia
Ironwood	Olneya tesota

Appendix C

Survey Forms

Site Name: Topock C			State: CA		County:	San Ber	nardino			
USGS Quad Name:	USGS Quad Name: Whale Mountain						Elevation:	134	(meters)	
Creek, River, or Lake Name: Colorado River										
Is copy of USGS n	ap marke	l with	survey area an	d WIFL sigl	htings attached ((as required)?	Yes	X	No	
Survey Coordinates:	Start:	E	728449	N	3845723	UTM	Datum:	83	(See instructions)	
	Stop:	E	728081	N	3845821	UTM	Zone:	11		
If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.										
Fill in additional site information on back of this page										

						injermanen en each ej mis pa				
Survey # Observer(s) (Full Name)	Date (m/d/y) Survey Time	Number of Adult WIFLs	Estimated Number of Pain	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior, evidence of pairs or breeding-potential dreats [livestock, cowbirds, Dioritabele upp.]). If Dioritabele found, contact USFWS and State WIFL coordinator.	(this is an opt pairs, or grou	tional colum ps of birds	nn for documenting	
Survey#1	Date:						# Birds	Sex	UTME	UIMN
			l .		l		# Dilus	GEX	UINLE	OIMIN
Observer(x):	5/24/2012		l .							
G Valdez	Start:	1	l .							
J Steinman	520									
	Stop:	0	0	0	NA		-			
	605		l .				\vdash	-		_
			l .		l		lacksquare	-		
	Total hrs:		l .		l			$\overline{}$		
	45 min.									
Survey #2	Date:						# Birds	Sex	UTME	UIMN
Observer(x):	6/8/2012		l .							
J Steinman	Start	1	l .				\vdash	-		
	509		l .		l		-	-		
		0	0	0	NA.		lacksquare	-		_
	Stop:		l .		l			$\overline{}$		
	535		l .							
	Total hrs:	1								
	26 min.		l .							
Survey#3	Date:						# Birds	Sex	UTME	UIMN
Observer(x):	6/22/2012		l .					- CLA	02.02	Canali
			l .					-		_
J Steinman	Start:		l .					-		
	645	0	0	0	NA					
	Stop:									
	715									
	Total hrs:	1								
	30 min.						\vdash	-		
Survey#4	Date:						# Birds	Sex	UTME	UIMN
							# DIIUS	Sex	UIME	UIMIN
Observer(x):	6/29/2012		l .				⊢—	-		
J Steinman	Start:									
	528	0	0	0	NA					
	Stop:									
	540		l .							
	Total hrs:	1	l .							
	12 min.						-			
Survey#5	Date:						# Birds	Sex	UTME	UIMN
							# Lilius	Jex	OIME	UIMIN
Observer(x):	7/10/2012						\vdash			
J Steinman	Start:									
	601	0	0	0	NA					
	Stop:	, and		-	144					
	625									
	Total hrs:									
1	24 min.									
Overall Site St										
	equal the sum of each Total Adult			Total		l				
column. Include only		Residents	Total Pairs	Territories	Total Nests	Ware and Willer and a land and an	Yes		No	
Do not include migras		- Constanting			l	Were any WIFLs color-banded?	195		IND	
fiedglings. Be careful not to-doub		⊢—	—		—	l				
He careful not to-doub individuals.	e e(E)	-	-	-		If yes, report color con	nbination(s)	in the cor	omegade.	
Total survey h	TS: 137min.	0	0	0	na	section on back of f				
_								-		
Reporting Indivi				Jeff Steinma		Date Report Complete			9/30/2012	
US Fish & Wild	life Service Pe	mit#:		TE-085	026-4	State Wildlife Agency Per	mit#:		CA -007803	L
	28 Fish & Wildlife Service Permit #: TE-085026-4 State Wildlife Agency Permit #: CA-007801									

Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

Reporting Individ	lual Jeff Steinman	Phone # (415) 250-2692
Affiliation	Garcia and Associates	E-mail <u>Istelnman@gardaandassodates</u>
Site Name		Completed 9/30/2012
	reyed in a previous year? Yes_x_ No Unknown	
		No Not Applicable
	what name(s) was used in the past?	
		No X If no, summarize below.
Did you survey the	same general area during each visit to this site this year? Yes x	NoIf no, summarize below.
Management Author	ntity for Survey Area: Foderal Municipal/County x St	ate Tribal Private
Name of Managem	ent Entity or Owner (e.g., Tonto National Forest) Moab	i Regional Park
Length of area surv	eyed: 382 meters (km)	
Vegetation Charact	eristics: Check (only one) category that best describes the predominant tree/shrub foliar lay	ver at this site:
	Native broadleaf plants (entirely or almost entirely, > 90% native)	
	Mixed native and exotic plants (mostly native, 50 - 90% native)	
	Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)	
1	Exotic/introduced plants (entirely or almost entirely, > 90% exotic)	
Identify the 2-3 pre	dominant tree/shrub species in order of dominance. Use scientific name.	
	Cercidium microphylum, Tamarix spp.	
Average height of o	anopy (Do not include a range):	(meters)
Attach the followin	g: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining surve	y site and location of WIFL detections;
2) sketch or aerial p	photo showing site location, patch shape, survey route, location of any detected WIFLs or th	eir nests;
3) photos of the int	erior of the patch, exterior of the patch, and overall site. Describe any unique habitat featur	es in Comments.
Comments (such as	start and end coordinates of survey area if changed among surveys, supplemental visits to s	ites, unique habitat features.
Attach additional si		
	more habitat removed from the expansion of Pirate Coves onto the peninsula of Park	Moabi. The habitat has been reduced on both
sides to a 5 meter	strip. Surveys are now only being conducted on one side.	

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTME	UIMN	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Site Name: Topock C							County: San Bernardino			
USGS Quad Name:	Whale M	ounta	in				Elevation:	146	(meters)	
Creek, River, or Lake Name: Colorado River										
Is copy of USGS m	ap marked	l with	survey area an	nd WIFL sign	htings attached ((as required)?	Yes	X	No	
Survey Coordinates:	Start:	E	728507	N_	3845579	UTM	Datum:	83	(See instructions)	
	Stop:	E	728921	N	3845659	UTM	Zone:	11		
If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.										
		••Fi	ll in addition	al site infe	ormation on b	back of this r	nage**			

						, , , .					
Survey# Observer(s) (Full Name)	Date (m/d/y) Survey Time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior, evidence of pairs or breeding-potential threats [livestock, cowbirds, Diorhabda spp.]). If Diorhabda found, contact USFWS and State WIFL coordinator.	(this is an op pairs, or grou	tional colur ps of birds	nn for documenting		
Survey #1	Date:						# Birds	Sex	UTME	UTMN	
Observer(s):	5/24/2012										
G Valdez	Start	1						-			
J Steinman	619		l					-			
J Decision		0	0	0	NA			_			
	Stop:										
	626										
	Total hrs:	1									
	7 min.										
Survey #2	Date:						# Birds	Sex	UTME	UIMN	
Observer(s):	6/5/2012							OLA	01112	Canali	
								-			
J Steinman	Start:										
	737	0	0	0	NA						
	Stop:										
	809										
	Total hrs:	1									
	32 min.										
Survey#3	Date:						# Birds	Sex	UTME	UIMN	
Observer(s):	6/20/2012										
J Steinman	Start	1									
J Stemensen											
	755	0 0	0	NA							
	Stop:										
	823										
	Total hrs:										
	28 min.										
Survey #4	Date:						# Birds	Sex	UTME	UIMN	
Observer(s):	6/27/2012										
J Steinman	Start	1									
	642							-			
		0	0	0	NA			_			
	Stop:							_			
	703										
1	Total hrs:										
	21 min.										
Survey#5	Date:						# Birds	Sex	UTME	UIMN	
Observer(x):	7/11/2012										
J Steinman	Start:										
	520										
	Stop:	0	0	0	NA						
	550										
	Total hrs:										
1	30 min.										
Committee Co											
Overall Site St			l								
Totals do not equal the sum of each column. Include only resident adults.		Total Adult Residents	Total Pairs	Total	Total Nests						
Do not include migran		Residents		Territories		Were any WIFLs color-banded?	Yes		No		
fledglings.											
Be careful not to-doub individuals.	Ne count	_	-	_		If yes, report color con	shination(s)	in the cor	a secondo		
Total survey h	118min.	0	0	0	na	section on back of f					
_	_										
Reporting Indivi				Jeff Steinma			Date Report Completed: 9/30/2012				
US Fish & Wild	life Service Pe	rmit#:		TE-085	026-4	State Wildlife Agency Per	State Wildlife Agency Permit #: CA -007801				

Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

Reporting Individ	dual		Jeff Ste			Phone #	(4)	15) 250-2692	!		
Affiliation			Garcia and Asso	ciates				E-mail	Istelnman	@uardaandas	sociates
Site Name			k CA-2			Da	te report C	ompleted		9/30/2012	
		a previous year? Y		Unknown	_						
		name is consistent wi	-	us yrs?	Yes	1	No		No.	t Applicable	
		me(s) was used in the									
If site was surveyed	d last yea	r, did you survey the s	ame general area this	s year?	Yes		No	I	If no, summs	rize below.	
Did you survey the	same ger	neral area during each	visit to this site this	year?	Yes	I	No		If no, summ	rize below.	
Management Author	ority for S	Survey Area:	Federal	Municipal/Co	unty _	I	State		Tribal	Private	
Name of Managem	ark										
Length of area surv	reyed:		609.0	((km)						
Vegetation Charact	teristics:	Check (only one) cat	egory that best descri	bes the predon	ninant to	ee/shrub	foliar layer	at this site	Ε		
	Native b	roadleaf plants (entir	ely or almost entirely	, > 90% native)						
	Mixedn	ative and exotic plant	s (mostly native, 50 -	90% native)							
	Mixedn	ative and exotic plant	s (mostly exotic, 50 -	90% exotic)							
I	Exotic/i	ntroduced plants (enti	rely or almost entirely	y, > 90% exoti	ic)						
Identify the 2-3 pre	dominan	tree/shrub species in									
			Carcidium	microphyllum	, Tamar	ix spp.					
Average height of o	canopy (I	Oo not include a range): <u> </u>		4			(meters)			
Attach the followin	ıg: 1) con	ov of USGS quad/top	ographical map (REQ	(UIRED) of su	rvey are	a, outlin	ing survey s	ite and loc	ation of WIF	L detections;	
2) sketch or aerial p	photo sho	wing site location, pa	tch shape, survey rou	.te, location of	any det	ected WI	IFLs or their	nests;			
3) photos of the int	erior of t	he patch, exterior of t	ne patch, and overall	site. Describe	any uni	que habi	itat features	in Comme	nts.		
Comments (such as	s start and	end coordinates of s	urvey area if changed	among survey	s, suppl	emental	visits to site	s, unique l	nabitat featur	res.	
Attach additional sl	heets if n	ecessary.		_							
		d and eliminated the	habitat on the nort	h side, cut a t	rail thr	ough the	e middle of	the habita	it and clear	ed a portion o	n the
west. See photos in	n report.										

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTME	UIMN	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Site Name:	Topock C	A-3				State: CA		County:	San Be	ernardino		
USGS Quad 1	Name:	Whale M	Lountain					Elevation:	134	(meter	'S)	
Creek, River,	or Lake Na	ime:	Colorado	River								
Is copy of	of USGS m	ap marki	ed with su	rvey area a	nd WIFL	sightings attached	(as required)?	Yes	X	No		
Survey Coord	inates:	Start:	Ε '	729285	N	3845544	UTM	Datum:	8	3 (See ins	tractions)	
•		Stop:	E	729038	N	3845681	UTM	Zone:	1	1	•	
If	urvey coor	dinates cl	hanged bet	ween visits	enter co	ordinates for each s	urvey in comme	nts section	on back	k of this page		
			••Fill i	n addition	nal site i	information on	back of this p	age**				
Survey # Observer(s) (Full Name)	Date (m/dly) Survey Time	Number of Adult WIFLs	Estimated Number of Pains	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of	Comments (e.g., bird behave breeding, potential threats Diorhabda spp.]). If Diorh USFWS and State WIFL or	vior, evidence of pairs of [livestock, cowbirds, habda found, contact	r GPS Coordir (this is an op pairs, or grou	tional colu ps of birds	IFI. Detections nn for documenting found on dditional shoets if n		
					nests							
Survey #1	Date:							# Birds	Sex	UTME	UIMN	
Observer(s): G Valdez	5/24/2012											
J Steirman	Start: 627							\vdash	⊢		-	
J December		0	0	0	NA			\vdash	⊢		-	
	Stop: 651							\vdash	_		-	
	Total hrs:							\vdash	-		_	
	24 min.							\vdash	-		_	
Survey # 2	Date:				_			# Birds	Sex	UTME	UIMN	
Observer(s):	6/5/2012							2	- CLA	01112	Canal	
J Steinman	Start:								-		_	
	705											
	Stop:	10	0	0	0	NA						
	737											
	Total hrs:											
	32 min.											
Survey #3	Date:							# Birds	Sex	UTME	UIMN	
Observer(x):	6/20/2012											
J Steinman	Start:							⊢				
	645	0	0	0	NA			\vdash	⊢		-	
	Stop: 721							⊢—	⊢		-	
	Total hrs:							\vdash	_		-	
	36 min.							-	-	-	_	
Survey #4	Date:				_			# Birds	Sex	UTME	UIMN	
Observer(s):	6/27/2012							# Lilido	JEX	OIME	Ollan	
J Steinman	Start:							\vdash	-		 	
	703											
	Stop:	0	0	0	NA							
	737											
	Total hrs:											

If yes, report color combination(s) in the commer section on back of form and report to USFWS. Total survey hrs: Date Report Completed: 9/30/2012 US Fish & Wildlife Service Permit #:

Were any WIFLs color-banded?

State Wildlife Agency Permit #:

NA

Total Nest

TE-085026-4

Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

7/11/201 550

Total Pairs

UTME

CA-007801

UTMN

Reporting Individual	Jeff Steinman		Phone #	(415) 250-2692
Affiliation	Garcia and Associates		E-mail	Isteinman@gardaandassociates
Site Name Was this site surveyed in	Topock CA-3 a previous year? Yes X No Unknown	Da	te report Completed	9/30/2012
•	·	Yes X	No	Not Applicable
If name is different, what nar	me(s) was used in the past?			
If site was surveyed last year	r, did you survey the same general area this year?	Yes X	No	If no, summarize below.
Did you survey the same gen	neral area during each visit to this site this year?	Yes X	No	If no, summarize below.
Management Authority for S	Survey Area: Federal X Municipal/Count	y	State	Tribal Private
Name of Management Entity	or Owner (e.g., Tonto National Forest)		BLM	
Length of area surveyed:	152 meters (km)		
Vegetation Characteristics:	Check (only one) category that best describes the predomina	int tree/shrub	foliar layer at this site	:
Native b	roadleaf plants (entirely or almost entirely, $> 90\%$ native)			
Mixed na	ative and exotic plants (mostly native, 50 - 90% native)			
x Mixed na	ative and exotic plants (mostly exotic, 50 - 90% exotic)			
Exotic/ir	ntroduced plants (entirely or almost entirely, $>$ 90% exotic)			
Identify the 2-3 predominant	tree/shrub species in order of dominance. Use scientific nar	me.		
	Acaci gregii, Tamarix	spp.		
Average height of canopy (D	Oo not include a range):	l	(meters)	
Attach the following: 1) cop	y of USGS quad/topographical map (REQUIRED) of surve	y area, outlin	ing survey site and loca	ation of WIFL detections;
2) sketch or aerial photo sho	wing site location, patch shape, survey route, location of an	y detected W	IFLs or their nests;	
3) photos of the interior of th	ne patch, exterior of the patch, and overall site. Describe ar	y unique habi	itat features in Commer	ats.
Comments (such as start and Attach additional sheets if ne	l end coordinates of survey area if changed among surveys, s	applemental	visits to sites, unique h	abitat features.

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTME	UIMN	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Site Name: Topock CA-4 State: CA County: San Bernardino

USGS Quad	Name:	Whale M	Lountain				Elevation:	134	(meter	5)
Creek, River,	or Lake Na	ame:	Colorado	River						
Is copy	of USGS m	ap mark	ed with su	тчеу атеа а	nd WIFL	sightings attached (as required):	Yes	X	No	
Survey Coord	linates:	Start	E	729537	N	3845317 UTM	Datum:	8.	3 (See inst	tructions)
-		Stop:	E	729384	N	3845151 UTM	Zone	1	1	•
If	survey coor	dinates cl	hanged be	tween visits	enter co	ordinates for each survey in comn	ents section	on back	k of this page	
	,					information on back of this			- co and page	
Nest(s)										
		l		l	Found?	Comments (e.g., bird behavior, evidence of pair	or GPS Coordi	nates for W	TEL Detections	
Survey # Observer(s)	Date (m/d/y)	Number of Adult	Estimated Number of	Estimated Number of	YorN	breeding, potential threats [livestock, cowbirds,	(this is an op		nn for documenting	individuals,
(Full Name)	Survey Time	WIFLs	Pairs	Territories	If Yes,	Diorhabda spp.]). If Diorhabda found, contact USFWS and State WIFL coordinator.				
					number of nexts	USFWS and State WIFL coordinator.	each survey)	. Include a	dditional sheets if n	occurry.
Survey #1	Date:				1000		# Birds	Sex	UTME	UTMN
Observer(x):	5/24/2012						ii biido	CCX	ULIVE	Canan
G Valdez	Start:	i					\vdash	_		
J Steinman	730									
	Stop:	0	0	0	NA					
	840									
	Total hrs:	1								
	70 min.									
Survey #2	Date:						# Birds	Sex	UTME	UTMN
Observer(x):	6/5/2012						1	unk		
J Steinman	Start:					Single male fitz-bew and whitt visual and audit				
	517	1	0	1	NA	detectionSingle male fitz-bew and whitt visual		⊢		
	Stop:					auditory detection	-	-		
	630 Total hrs:	l						_		
	73 min.						\vdash	\vdash		
Survey #3	Date:			\vdash			# Birds	Sex	UTME	UIMN
Observativit	6/20/2012						Dildo	Jex	Uline	CIMIN
J Steinman	Start:									
							\vdash	_		

Were any WIFLs color-banded?

NA

NA

Total Nest

Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

top: 643

72 m

6/27/2012 et: 525

638

7/10/201 art: 640

63 n

0

0

Total Pairs

UIMN

UTMN

UTME

UTME

Birds

Birds

Reporting Individual	Jeff Steinman	Phone #	(415) 250-2692							
Affiliation	Garcia and Associates	E-mail	Isteinman@gardaandassociates							
Site Name		ort Completed	9/30/2012							
	ın a previous year? Yes_x_ No Unknown									
Did you verify that this s	ite name is consistent with that used in previous yrs? Yes x	No	Not Applicable							
If name is different, wha	name(s) was used in the past?									
If site was surveyed last	year, did you survey the same general area this year? Yes	No x	If no, summarize below.							
Did you survey the same	general area during each visit to this site this year? Yes x	No	If no, summarize below.							
Management Authority f	or Survey Area: Federal x Municipal/County	State	Tribal Private							
Name of Management E	ame of Management Entity or Owner (e.g., Tonto National Forest) BLM									
Length of area surveyed:	249 meters (km)									
Nativ Mixe	s: Check (only one) category that best describes the predominant tree/shrub foliar the broadleaf plants (entirely or almost entirely, > 90% native) d native and exotic plants (mostly native, 50 - 90% native)	layer at this site								
x Mixe	d native and exotic plants (mostly exotic, 50 - 90% exotic)									
Exot	c/introduced plants (entirely or almost entirely, > 90% exotic)									
Identify the 2-3 predomin	ant tree/shrub species in order of dominance. Use scientific name. Tamarix spp, Acacia gregii									
Average height of canop	(Do not include a range): 4.5	(meters)								
2) sketch or aerial photo	copy of USGS quad/topographical map (REQUIRED) of survey area, outlining sur showing site location, patch shape, survey route, location of any detected WIFLs or of the patch, enterior of the patch, and overall site. Describe any unique habitat fea	their nests;								
Attach additional sheets	and end coordinates of survey area if changed among surveys, supplemental visits t f necessary. to inlends several points around the east sided of the hat cave wash route 66 by									

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTME	UIMN	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Site Name: Topock C	A-5				State: CA		County:	San Bernardino
USGS Quad Name:	Whale M	ounta	in				Elevation:	134 (meters)
Creek, River, or Lake Na	ime:	Colora	ado River					
Is copy of USGS m	ap marke	d with	survey area an	d WIFL sigl	ttings attached (as required)?	Yes	X No
Survey Coordinates:	Start:	Е	729889	N	3844738	UTM	Datum:	83 (See instructions)
	Stop:	E	730025	N	3844330	UTM	Zone:	11
If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.								
Fill in additional site information on back of this page								
							_	

						<u> </u>				
Survey # Observer(s) (Full Name)	Date (m/d/y) Survey Time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior, evidence of pairs or breeding-potential threats [livestock, cowbirds, Diorhabda app.]). If Diorhabda found, contact USFWS and State WIFL coordinator.	(this is an op pairs, or grou	tional colur ps of birds	nn for documenting	
Survey #1	Date:						# Birds	Sex	UTME	UTMN
Observer(s):	5/24/2012							ULA	011112	Canali
G Valdez	Start:							-		
J Steinman								-		
Johnston	843	0	0	0	NA					
	Stop:			_						
	942									
	Total hrs:	1								
	59 min.									
Survey #2	Date:			—			# Birds	Sex	UTME	UIMN
Observer(s):	6/8/2012						II DII GO	OCA	ULIVE	013111
J Steinman								-		
J Stementer	Start:							-		
	543	0	0	0	NA			_		
	Stop:									
	645									
	Total hrs:									
1	62 min.									
Survey #3	Date:						# Birds	Sex	UTME	UTMN
Observer(x):	6/22/2012									
J Steinman	Start:	1								
	525							-		
		0	0	0	NA			-		
	Stop:									
	610							-		
	Total hrs:									
	45 min.									
Survey #4	Date:						# Birds	Sex	UTME	UIMN
Observer(x):	6/29/2012									
J Steinman	Start:	l .								
	615									
	Stop:	0	0	0	NA					
	720									
	Total hrs:									
1	65 min.									
Survey#5	Date:						# Birds	Sex	UTME	UIMN
Observer(x):	7/11/2012						# Ullub	JEX	UIME	OIMA
J Steinman	7/11/2012 Start:							-		
	715									
		0	0	0	NA					
	Stop:									
	815									
1	Total hrs:									
	60 min.									
Overall Site St										
Totals do not equal the		Total Adult	Total Pairs	Total	Total Nests					
column. Include only Do not include migran		Residents		Territories		Were any WIFLs color-banded?	Yes		No	
fledglings.										
Be careful not to doub	de count					If yes, report color con	nhination(s)	in the cor	omercite.	
individuals. Total survey h	IS: 291min	0	0	0	na	section on back of f				
_	_									
Reporting Indivi				Jeff Steinma		Date Report Complete			9/30/2012	
US Fish & Wild	life Service Pe	rmit#:		TE-085	026-4	State Wildlife Agency Per	mit#:		CA -007801	
						_				

Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

Reporting Individual	Jeff Steinman	Phone #	(415) 250-2692					
Affiliation	Garcia and Associates	E-mail	Isteinman@gardaandassociates					
Site Name		te report Completed	9/30/2012					
	n a previous year? Yes_x_ NoUnknown							
Did you verify that this sit	e name is consistent with that used in previous yrs? Yes x	No	Not Applicable					
If name is different, what	name(s) was used in the past?							
If site was surveyed last y	ear, did you survey the same general area this year? Yes x	No	If no, summarize below.					
Did you survey the same g	general area during each visit to this site this year? Yes	No I	If no, summarize below.					
Management Authority for	r Survey Area: Federal x Municipal/County	State	Tribal Private					
Name of Management Entity or Owner (e.g., Tonto National Forest) BLM								
Length of area surveyed:	152 meters (km)							
Native Mixed Mixed Exotic	c: Check (only one) category that best describes the predominant tree/shrub broadleaf plants (entirely or almost entirely, > 90% native) I native and exotic plants (mostly native, 50 - 90% native) I native and exotic plants (mostly exotic, 50 - 90% exotic) /introduced plants (entirely or almost entirely, > 90% exotic) ant tree/shrub species in order of dominance. Use scientific name. *Tamarix spp., Acacia gregii	foliar layer at this site:						
Average height of canopy	(Do not include a range): 4	(meters)						
2) sketch or aerial photo si	copy of USGS quad/topographical map (REQUIRED) of survey area, outlini howing site location, patch shape, survey route, location of any detected WI f the patch, exterior of the patch, and overall site. Describe any unique habi	FLs or their nests;						
Attach additional sheets if	nd end coordinates of survey area if changed among surveys, supplemental incressary. ed to the south to inlicitude the expanded Project Area of Potential Effec		abitat features.					

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTME	UIMN	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Site Name:	Topock C	A-6	.,		,	State: CA	10111	County:	San Be	ernardino	
USGS Quad?	Name:	Whale M	Lountain					Elevation:	134	(meter	rs)
Creek, River,	or Lake N	ame:	Colorado	River							
Is copy	of USGS m	ap marki	ed with su	rvey area a	nd WIFL	sightings attached	(as required)?	Yes	X	No	
Survey Coord	linates:	Start:	E	729163	N	3845340	UTM	Datum:	8.	3 (See ins	tructions)
		Stop:	E	729249	N	3845445	UTM	Zone:	1	1	
If:	survey coor	dinates cl	hanged be	ween visits	enter co	ordinates for each su	rvey in commer	its section	on back	k of this page	1.
			••Fill i	n addition	nal site i	information on b	ack of this p	age**			
Survey # Observer(s) (Full Name)	Date (m/d/y) Survey Time	Number of Adult WIFLs	Estimated Number of Pain	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavi breedingpotential threats [I Diorhabde spp.]). If Diorhe USFWS and State WIFL con	ivestock, cowbirds, abda found, contact	(this is an op- pairs, or grou	tional colur ps of birds	nn for documentin	
Survey #1	Date:							# Birds	Sex	UTME	UTMN
Observer(x):	5/24/2012										
G Valdez	Start:										
J Steinman	651	0	0	0	NA				_		-
	Stop: 715							\vdash	_		-
	Total hrs:	1						\vdash			_
	24 min.										_
Survey #2	Date:							# Birds	Sex	UTME	UIMN
Observer(x):	6/5/2012										
J Steinman	Start:	1									
	632	0	0	0	NA						
	Stop:		_								_
	705 Total hrs:										
	33 min.							\vdash	_		-
Survey#3	Date:				_			# Birds	Sex	UTME	UIMN
Observer(x):	6/20/2012										
J Steinman	Start:	1									
	733	0	0	0	NA						
	Stop:	Ť		-							
	755										
	Total hrs: 22 min.							\vdash			_
Survey # 4	Date:							# Birds	Sex	UTME	UIMN
Observer(s):	6/27/2012							# Dilus	GEX	OIME	ULMIN
J Steinman	Start:	1									
	737				NIA						
	Stop:	0	0	0	NA						
	810										
	Total hrs:										
S # 5	33 min.				\vdash			# Direct	One	1777/7	· · ·
Survey #5	Date:							# Birds	Sex	UTME	UIMN

Were any WIFLs color-banded?

Total Nes

Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

630

Total Pairs

Reporting Individual	Jeff Steinman		Phone #	(415) 250-2692
Affiliation	Garcia and Associates		E-mail	Isteinman@oardaandassociates
Site Name	Topock CA-6	Date	report Completed	9/30/2012
	a previous year? Yes_x_ No Unknown	-		
	name is consistent with that used in previous yrs?	Yes I	No	Not Applicable
	ame(s) was used in the past?			
If site was surveyed last yea	r, did you survey the same general area this year?	Yes I	No	lf no, summarize below.
Did you survey the same get	neral area during each visit to this site this year?	Yes I	No	lf no, sunmarize below.
Management Authority for S	Survey Area: Federal x Municipal/C	ounty	State	Tribal Private
Name of Management Entity	y or Owner (e.g., Tonto National Forest)		BLM	
Length of area surveyed:	152.0	(km)		
Vegetation Characteristics:	Check (only one) category that best describes the predor	ninant tree/shrub fo	oliar layer at this site:	
Native b	broadleaf plants (entirely or almost entirely, > 90% native	e)		
Mixed n	native and exotic plants (mostly native, 50 - 90% native)			
x Mixed n	native and exotic plants (mostly exotic, 50 - 90% exotic)			
Exotic/i	introduced plants (entirely or almost entirely, > 90% exot	ic)		
Identify the 2-3 predominan	t tree/shrub species in order of dominance. Use scientific	name.		
	Acacia gregii, Tam	earix spp.		
Average height of canopy (I	Do not include a range):	4	(meters)	
Attach the following: 1) co	py of USGS quad/topographical map (REQUIRED) of st	uvey area, outlinin	g survey site and loca	tion of WIFL detections;
2) sketch or aerial photo sho	owing site location, patch shape, survey route, location of	any detected WIF	Ls or their nests;	
3) photos of the interior of t	the patch, exterior of the patch, and overall site. Describe	any unique habita	t features in Commen	ts.
Comments (such as start and	d end coordinates of survey area if changed among surve	ys, supplemental vi	isits to sites, unique ha	bitat features.

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTME	UIMN	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Site Name:	Topock C	A-7				State: CA		County:	San Be	ernardino	
USGS Quad?	Name:	Whale M	Lountain					Elevation:	141	(meter	5)
Creek, River,			Colorado								
Is copy	of USGS m	ap marke	ed with su	гчеу атеа а	nd WIFL	sightings attached ((as required)?	Yes	X	No	_
Survey Coord	inates:	Start:	E	730283	N	3844249	UTM	Datum:	8.	3 (See inst	tructions)
		Stop:	E	730097	N	3844233	UTM	Zone:	1	1	
If	survey coor	dinates cl	hanged be	ween visits	enter co	ordinates for each su	rvey in commer	its section	on back	k of this page.	
			••Fill i	n additio	nal site i	information on b	ack of this p	age**			
Survey # Observer(s) (Full Name)	Date (m/d/y) Survey Time	Number of Adult WIFLs	Estimated Number of Pains	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavis breeding, potential threats [li Diorhabda app.]). If Diorha USFWS and State WIFL coo	vestock, cowbirds, bda found, contact	(this is an op- pairs, or grou	tional colur ps of birds	IFI. Detections nn for documenting found on dditional sheets if n	
Survey#1	Date:							# Birds	Sex	UIME	UIMN
Observer(x):	5/25/2012										
G Valdez	Start:										
J Steinman	745	0	0	0	NA						
	Stop:		,								
	810										
	Total hrs:								_		_
	25min. Date:										
Survey#2								# Birds	Sex	UTME	UIMN
J Steinman	6/8/2012 Start:							\vdash	_		-
Juliana	648							\vdash			_
	Stop:	0	0	0	NA					 	_
	703										
	Total hrs:	1									
	15 min.										
Survey#3	Date:							# Birds	Sex	UTME	UTMN
Observer(x):	6/22/2012										
J Steinman	Start:										
	612	0	0	0	NA						
	Stop:										
	630										
	Total hrs: 18 min.							\vdash	_		-
C	Date:							# Diede	0		
Survey#4								# Birds	Sex	UIME	UIMN
J Steinman	6/29/2012 Start:										
	555							\vdash			
	Steen:	0	0	0	NA			\vdash			-

Reporting Individual: Jeff Steinman Data Report Completed: 9/30/2012
US Fish & Wildlife Service Permit #: TE-085026-4 State Wildlife Agency Permit #: CA-007801

NA

Total Nest

0

Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

Were any WIFLs color-banded?

612

251

Total survey hrs: 100 m

Total Pairs

UTME

Birds

If yes, report color combination(s) in the commer section on back of form and report to USFWS. UTMN

Reporting Indiv	ridual		Jeff S	Phone	# (4	(415) 250-2692			
Affiliation			Garcia and As	E-ma	il <u>Istelnman</u>	isteinman@gardaandassodates			
Site Name		Торо	ck CA-7			Date report Complet	ed	9/30/2012	
Was this site su	irveyed in a	previous year?	YesNo	Unknown	X_				
Did you verify the	at this site na	une is consistent w	ith that used in previ	ous yrs?	Yes	No	N	ot Applicable	
If name is differe	nt, what nan	e(s) was used in th	ne past?						
If site was survey	ed last year,	did you survey the	same general area th	nis year?	Yes	No	If no, summ	arize below.	
Did you survey th	ne same gene	ral area during eac	h visit to this site thi	s year?	Yes 3	X No	If no, summ	arize below.	
Management Aut	hority for Su	rvey Area:	Federal	Municipal/C	County	State	Tribal	Private	1
Name of Manage	ment Entity	or Owner (e.g., To	nto National Forest)			PG&E			
Length of area su	rveyed:		228 meters		(km)				
Vegetation Chara	cteristics: C	heck (only one) ca	tegory that best desc	ribes the predo	minant tree/	shrub foliar layer at this s	ite:		
	Native br	oadleaf plants (enti	irely or almost entire	ly, > 90% nativ	<i>i</i> e)				
1	Mixed na	ive and exotic plan	nts (mostly native, 50) - 90% native)					
	Mixed na	ive and exotic plan	nts (mostly exotic, 50) - 90% exotic)					
	Exotic/int	roduced plants (en	tirely or almost entir	ely, > 90% exo	tic)				
Identify the 2-3 p	redominant t	ree/shrub species i	in order of dominanc	e. Use scientifi	c name.				
			Salix Gooddi	ingii, Acacia g	regii., Tama	rix spp.			
Average height of	f canopy (Do	not include a rang	ge):		3	(meters)			
				•		outlining survey site and l	ocation of WI	FL detections;	
	•				-	ed WIFLs or their nests; e habitat features in Conn	nents.		
Comments (such Attach additional			survey area if change	ed among surve	ys, supplem	ental visits to sites, uniqu	e habitat featu	res.	

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTME	UIMN	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Site Name:	Topock A	Z-1	•	•		State: AZ	County:	Mohay	re	
USGS Quad		Topock					Elevation:		(meter	5)
Creek, River.		ime:	Colorado	River					`	,
					nd WTFL	sightings attached (as required)?	Yes	X	No	
Survey Coord	_	Start:		729823	N		Datum:	8.	(See inst	ructions)
Sarvey Court	mantes.	Stop:		730272	- N		Zone		,	
TE					_	ordinates for each survey in comme				
ш	survey coor	umates C	••Fill i	n addition	enter co	information on back of this p	nus secuon	OE OAC	a or uns page.	
			rmı	n aaaiiioi		njormation on back of this p	uye			
	l .	l		l	Nest(s) Found?	Comments (e.g., bird behavior, evidence of pairs of	ODE Comb	notes for W	TEL Datastions	
Survey #	Date (m/d/y)	Number of	Estimated Number of	Estimated	Y or N	breeding-potential threats [livestock, cowbirds,			nn for documenting	individuals,
(Full Name)	Survey Time	Adult WIFLs	Pains	Number of Territories	If Yes,	Diorhabda spp.]). If Diorhabda found, contact	pairs, or grou	aps of birds	found on	
(l .				number of	USFWS and State WIFL coordinator.	each survey)	Include a	dditional sheets if n	oceany.
Survey #1	Date:				nests		# Birds	Sex	UTME	UIMN
Observer(s):	5/25/2012						# DIIUS	Sex	UIME	OIMIN
G Valdez	Start:						\vdash	-		_
J Steinman	511						\vdash	-	 	_
	Stop:	0	0	0	NA		\vdash	_	—	_
	655									
	Total hrs:	1								
	104 min.									
Survey#2	Date:						# Birds	Sex	UTME	UIMN
Observer(x):	6/6/2012									
J Steinman	Start:	l								
	530	0	0	0	NA					
	Stop:						⊢—	_		
	817 Total hrs:	l								
	167 min.							_		
Survey#3	Date:	-		_	-		# Birds	Sex	UTME	UIMN
Observer(x):	6/19/2012						# Dilus	JEA	OIME	OIMIN
J Steinman	Start	1					\vdash	_	-	_
	540									
	Stop:	0	0	0	NA					
	825									
	Total hrs:	1								
	165 min.									
Survey#4	Date:						# Birds	Sex	UIME	UIMN
Observer(x):	6/26/2012									
J Steinman	Start:						\vdash			
	545	0	0	0	NA		\vdash	\vdash		
	Stop: 848						\vdash	-		
	Total hrs:	ł					\vdash	-		-
	183 min.									
Survey#5	Date:						# Birds	Sex	UTME	UTMN
Observer(x):	7/12/2012						2,100			U.I.I.1
J Steinman	Start:									
	540				200					
	Stop:	0	0	0	NA					
	847									
	Total hrs:									

Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

TE-085026-4

Were any WIFLs color-banded?

Date Report Completed:

State Wildlife Agency Permit #:

If yes, report color combination(s) in the commer section on back of form and report to USFWS.

Total survey hrs:

US Fish & Wildlife Service Permit #:

9/30/2012

AZ SP790914

Reporting Individual	Jeff Steinman		Phone #	(415) 250-2692			
Affiliation	Garcia and Associates		E-mail Istelnman@coa				
Site Name Was this site surveyed in a p	Topock AZ-1 previous year? Yes_x_ No Unknown_		Date report Completed	9/30/2012			
Did you verify that this site nan	ne is consistent with that used in previous yrs?	Yes I	No	Not Applicable			
If name is different, what name	(s) was used in the past?		Topack AZ				
If site was surveyed last year, d	tid you survey the same general area this year?	Yes	No x	If no, summarize below.			
Did you survey the same genera	al area during each visit to this site this year?	Yes I	No	lf no, summarize below.			
Management Authority for Sur	vey Area: Federal X Municipal	County	State	Tribal Private			
Name of Management Entity or	r Owner (e.g., Tonto National Forest)		Havasu National Wildli	fe Refuge			
Length of area surveyed:	12	_(km)					
Vegetation Characteristics: Ch	eck (only one) category that best describes the pred	ominant tree/sh	hrub foliar layer at this site				
Native broa	adleaf plants (entirely or almost entirely, > 90% nat	ive)					
Mixed nati	ve and exotic plants (mostly native, 50 - 90% native	<u>.)</u>					
x Mixed nati	ve and exotic plants (mostly exotic, 50 - 90% exotic)					
Exotic/intro	oduced plants (entirely or almost entirely, $> 90\%$ ex	otic)					
Identify the 2-3 predominant to	ee/shrub species in order of dominance. Use scienti	fic name.					
	Tamarix spp., Salix Goodd	ingii, Accacia g	gregii,				
Average height of canopy (Do	not include a range):	5	(meters)				
Attach the following: 1) copy	of USGS quad/topographical map (REQUIRED) of	survey area, or	utlining survey site and loc	ation of WIFL detections;			
2) sketch or aerial photo showi	ng site location, patch shape, survey route, location	of any detected	WIFLs or their nests;				
3) photos of the interior of the	patch, exterior of the patch, and overall site. Descri	be any unique l	habitat features in Comme	nts.			
Attach additional sheets if nece	nd coordinates of survey area if changed among surv ssary, en that was surveyed in previous years to elimin						

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTME	UIMN	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Reporting Individ	ıal Jeff Steinman	Phone # (415) 250-2692					
Affiliation	Garcia and Associates	E-mail	isteinman@gardaandas	sociates			
Site Name		ort Completed	9/30/2012				
	yed in a previous year? Yes No Unknown x			_			
	his site name is consistent with that used in previous yrs? Yes	No	Not Applicable	I			
	what name(s) was used in the past?						
	last year, did you survey the same general area this year? Yes	No	If no, summarize below.				
Did you survey the s	ame general area during each visit to this site this year? Yes	No	If no, summarize below.				
Management Author	ity for Survey Area: Federal Municipal/County	State	Tribal Private	1			
Name of Manageme	nt Entity or Owner (e.g., Tonto National Forest)						
Length of area surve	yed: 10 meters (km)						
Vegetation Characte	ristics: Check (only one) category that best describes the predominant tree/shrub foliar	layer at this site:	:				
	Native broadleaf plants (entirely or almost entirely, > 90% native)						
	Mixed native and exotic plants (mostly native, 50 - 90% native)						
	Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)						
<u> </u>	Exotic/introduced plants (entirely or almost entirely, > 90% exotic)						
Identify the 2-3 pred	ominant tree/shrub species in order of dominance. Use scientific name.						
	Arrundo doaxma, Salix spp, Tamarix spp.						
Average height of ca	nopy (Do not include a range):	(meters)					
Attach the following	: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining su	rvey site and loca	ntion of WIFL detections;				
2) sketch or aerial pl	noto showing site location, patch shape, survey route, location of any detected WIFLs o	r their nests;					
3) photos of the inte	rior of the patch, exterior of the patch, and overall site. Describe any unique habitat fea	tures in Commen	its.				
	start and end coordinates of survey area if changed among surveys, supplemental visits	to sites, unique h	abitat features.				
Attach additional sh	eets if necessary.						

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTME	UIMN	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Reporting Individual	Jeff Steinman	Phone # (415) 250-20				
Affiliation	Garcia and Associates	E-mail	Isteinman@dardaandas:	sociates		
Site Name	Topock AZ-2 Date rep n a previous year? Yes No Unknown x	ort Completed	9/30/2012			
•	e name is consistent with that used in previous yrs? Yes	No	Not Applicable	ı		
If name is different, what i	name(s) was used in the past?					
If site was surveyed last ye	ear, did you survey the same general area this year? Yes	No	If no, summarize below.			
Did you survey the same g	eneral area during each visit to this site this year? Yes x	No	If no, summarize below.			
Management Authority for Name of Management Ent	r Survey Area: Federal Municipal/County ity or Owner (e.g., Tomto National Forest)	State	Tribal Private	1		
Length of area surveyed:	10 meters (km)					
Vegetation Characteristics	: Check (only one) category that best describes the predominant tree/shrub foliar	layer at this site:	:			
Native	broadleaf plants (entirely or almost entirely, > 90% native)					
Mixed	native and exotic plants (mostly native, 50 - 90% native)					
Mixed	native and exotic plants (mostly exotic, 50 - 90% exotic)					
x Exotic	/introduced plants (entirely or almost entirely, > 90% exotic)					
Identify the 2-3 predomina	nt tree/shrub species in order of dominance. Use scientific name. Arrundo doaxma, Saitx spp, Tamarix spp.					
Average height of canopy	(Do not include a range):	(meters)				
sketch or aerial photo si photos of the interior of	opy of USGS quad/topographical map (REQUIRED) of survey area, outlining sur howing site location, patch shape, survey route, location of any detected WIFLs or the patch, exterior of the patch, and overall site. Describe any unique habitat feat	r their nests; tures in Commen	ıts.			
Attach additional sheets if	nd end coordinates of survey area if changed among surveys, supplemental visits t necessary.	io sites, umique h	aottat Teatures.			

Territory Summary Table. Provide the following information for each verified territory at your site.

		_				
Territory Number	All Dates Detected	UTME	UIMN	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Site Name:	Topock A	Z-3				State: AZ	County:	Mohav	re	
USGS Quad	Name:	Topock					Elevation:	141	(meters	i)
Creek, River,	or Lake Na	ime:	Colorado	River						
Is copy	of USGS m	ap mark	ed with su	гчеу атеа а	nd WIFL	sightings attached (as required)?	Yes	X	No	
Survey Coord	linates:	Start:	E	730616	N	3844747 UTM	Datum:	8.	(See inst	nuctions)
_		Stop:	E	730773	N	3844846 UTM	Zone:	1	l	
If	survey coor	dinates cl	hanged bet	tween visits	enter co	ordinates for each survey in commen	ts section	on back	of this page.	
	•					information on back of this po				
					Nest(x)	1	-			
Survey #		Number of	Estimated	Estimated	Found?	Comments (e.g., bird behavior, evidence of pairs or	GPS Coordin	sates for W	FL Detections	
Observer(s)	Date (m/d/y)	Adult	Number of	Number of	YorN	breeding, potential threats [livestock, cowbirds,	(this is an opt	tional colu	nn for documenting	individuals,
(Full Name)	Survey Time	WIFLs	Pairs	Territories	If Yes, number of	Diorhabda spp.]). If Diorhabda found, contact USFWS and State WIFL coordinator.	pairs, or grou		tound on iditional sheets if no	OCCUPATY.
				l	number of nexts		,,			,
Survey#1	Date:						# Birds	Sex	UTME	UTMN
Observer(x):	5/25/2012									
G Valdez	Start:									
J Steinman	835	0	0	0	NA					
	Stop:									
	850							_		
	Total hrs: 15 min.							_		
Survey # 2	Date:						# Birds	Sex	UTME	UIMN
Observer(x):	6/7/2012						# DIIUS	Sex	UIME	OIMIN
J Steinman	Start									
	548									
	Stop:	0	0	0	NA					
	609									
	Total hrs:									
	21 min.									
Survey #3	Date:						# Birds	Sex	UTME	UIMN
Observer(s): J Steinman	6/21/2012 Start:							-		
Josephan	832									
	Stop:	0	0	0	NA					
	848									
	Total hrs:	1								
	16 min.									
Survey#4	Date:						# Birds	Sex	UTME	UTMN
Observer(x):	6/28/2012							lacksquare		
J Steinman	Start:							_		
	805 Stop:	0	0	0	NA			-		
	832						_	-		
	Total hrs:									
	27 min.									
Survey#5	Date:						# Birds	Sex	UTME	UIMN
Observer(x):	7/13/2012									
J Steinman	Start:									
	750	0	0	0	NA					
	Stop:									
	800 Total hrs:									
	Total hrs: 10 min,									
Overall Site St										
Totals do not equal the	sum of each	Total Adult	Total Paris	Total	Total Marc					
column. Include only Do not include migran		Residents	Total Pairs	Territories	Total Nests	Were any WIFLs color-banded?	Yes		No	
fledglings.	and the same of the same of	l	l	I	l	I				

Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

State Wildlife Agency Permit #:

TE-085026-4

US Fish & Wildlife Service Permit #:

9/30/2012

AZ SP790914

Reporting Individ	lual		Jef	f Steinman			Phone #	92	
Affiliation			Garcia and	Associates			E-mail	Isteinman@gardaand	associates
Site Name			ock AZ-3		Date report C	ompleted	9/30/2012		
Was this site surv	reyed in a	previous year	Yes No	Unknown	nx				
Did you verify that	this site na	me is consistent	with that used in pr	revious yrs?	Yes	No	I	Not Applicable	I
If name is different	, what nam	e(s) was used in	the past?						
If site was surveyed	i last year,	did you survey t	he same general are	a this year?	Yes	No		If no, summarize below.	
Did you survey the	same gene	ral area during e	ach visit to this site	this year?	Yes	K No		If no, summarize below.	
Management Autho	ority for Su	rvey Area:	Federal	I Munici	ipal/County	State		Tribal Private	
Name of Managem	ent Entity (or Owner (e.g., '	Conto National Fore	st)		Havasu	Wildlife Re	efuge	
Length of area surv	eyed:		208 meters		(km)				
•	Native bro	oadleaf plants (e	category that best d ntirely or almost end lants (mostly native	tirely, > 90%:	native)	shrub foliar layer	at this site	:	
		-	lants (mostly exotic		•				
	Museu na	ive and exotic p	ianis (mostry exotic	, 30 - 90 /6 89	ouc)				
I	Exotic/int	roduced plants (entirely or almost er	ntirely, > 90%	exotic)				
Identify the 2-3 pre	dominant t	ree/shrub specie	s in order of domina So		ntific name. ii, Tamarix spp.				
Average height of o	anopy (Do	not include a ra	nge):		2		(motors)		
2) sketch or aerial p	photo show	ing site location	topographical map (, patch shape, surve of the patch, and ov	y route, locati	ion of any detect	ed WIFLs or their	nests;	ation of WIFL detection	S.
Comments (such as			of survey area if cha	nged among s	surveys, supplem	ental visits to site	es, unique h	abitat features.	

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTME	UIMN	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

State: AZ

County: Mohave

USGS Quad	Name:	Topock						Elevation:	143	(meter	5)
Creek, River,	or Lake N	ime:	Colorado	River							
Is copy	of USGS m	ap mark	ed with su	тчеу атеа а	nd WIFL	sightings attached ((as required)?	Yes	X	No	
Survey Coord	linates:	Start:	E	730908	N	3844998	UTM	Datum:	83	(See inst	tructions)
-		Stop:	E	730961	N	3845519	UTM	Zone:	11	1	
If	survey coor	dinates cl	hanged be	tween visits	enter co	ordinates for each su	rvev in comme	nts section	on back	of this page.	
	•		••Fill i	n additio	nal site	information on b	ack of this p	age**			
Survey # Observer(s) (Full Name)	Date (m/d/y) Survey Time	Number of Adult WIFLs	Estimated Number of Pains	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, mamber of nests	Comments (e.g., bird behavis breeding-potential threats [li Diorhabde app.]). If Diorha USFWS and State WIFL coo	or, evidence of pairs or ivestock, cowbirds, bda found, contact	GPS Coordir (this is an op pairs, or grou	tional colur ps of birds	nn for documenting	
Survey #1	Date:							# Birds	Sex	UTME	UTMN
Observer(x):	5/25/2012										
G Valdez	Start:	1									
J Steinman	851	0	0	0	NA						
	Stop:	Ť	,								
	915	l									
	Total hrs:								\vdash		
	24 min.										L
Survey#2	Date:							# Birds	Sex	UTME	UIMN
Observer(s): J Steinman	6/7/2012 Start:								-		—
J Stemmen	610							\vdash	-		—
	Stop:	0	0	0	NA			_	-		
	638							\vdash	-		-
	Total hrs:	ł									
	28 min.										
Survey #3	Date:							# Birds	Sex	UTME	UIMN
Observer(s):	6/21/2012										
J Steinman	Start:										
	805	0	0	0	NA						
	Stop:	Ü	0		NA.						
	830										
	Total hrs:										

US Fish & Wildlife Service Parmit #: TE-085026-4 State Wildlife Agency Parmit #: AZ SP790914

Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

NA

NA

Total Nest

6/28/2013 et: 737

800 al line: 23 m

7/13/201 art: 725

750 al hex: 25 m

Total survey hrs: 125 m

Reporting Individual:

0

0

Total Pairs

Site Name: Topock AZ-4

UIMN

UTMN

UTME

UTME

9/30/2012

Birds

If yes, report color combination(s) in the commer section on back of form and report to USFWS.

Were any WIFLs color-banded?

Date Report Completed:

Reporting Indivi	dual		Jeff :	Steinman			Phone #	(415) 250-2	2692
Affiliation			Garcia and A	sociates			E-mail	Isteinman@gardaar	ndassociates
Site Name	nonad in	Topo a previous year?	ck AZ-4 Yes No	Unknown		Date report C	ompleted	9/30/201	2
		name is consistent w			^_ Yes	No	I	Not Applicab	le
If name is differen	t, what na	ime(s) was used in th	ne past?						
If site was surveye	d last yea	r, did you survey the	same general area t	his year?	Yes	No		If no, summarize below	
Did you survey the	same ge	neral area during eac	h visit to this site th	is year?	Yes	No		If no, summarize below	
Management Auth	ority for	Survey Area:	Federal X	Municipa	l/County	State		Tribal Private	·
Name of Managem	ent Entit	y or Owner (e.g., To	nto National Forest)			Havasu Natio	nal Wildli	fe Refuge	
Length of area sur	veyed:		564 meter		(km)				
Vegetation Charac	teristics:	Check (only one) ca	tegory that best des	cribes the pre	dominant tree	shrub foliar layer/	at this site	:	
	Native l	oroadleaf plants (ent	irely or almost entire	ely, > 90% na	tive)				
	Mixed	ative and exotic pla	nts (mostly native, 5	0 - 90% nativ	e)				
	Mixed	ative and exotic plan	nts (mostly exotic, 5	0 - 90% exoti	ic)				
1	Exotic/i	ntroduced plants (en	tirely or almost enti	rely, > 90% e	notic)				
Identify the 2-3 pro	edominan	t tree/shrub species i	in order of dominan	ce. Use scient	ific name.				
				Tamaris	с урр.				
Average height of	canopy (I	Do not include a rang	ge):		2		(meters)		
Attach the following	ng: 1) co	py of USGS quad/to	pographical map (R	EQUIRED) o	f survey area,	outlining survey s	ite and loc	ation of WIFL detection	ons;
2) sketch or aerial	photo sho	wing site location, p	oatch shape, survey	route, location	n of any detect	ted WIFLs or their	nests;		
3) photos of the int	terior of t	he patch, exterior of	the patch, and over	ıll site. Desc	ribe arry uniqu	e habitat features	in Comme	nts.	
Comments (such a	s start an	d end coordinates of	survey area if chang	ed among su	veys, supplen	nental visits to site	s, unique h	abitat features.	
Attack additional o	boots if a								

Territory Summary Table. Provide the following information for each verified territory at your site.

		_				
Territory Number	All Dates Detected	UTME	UIMN	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Site Name:	Topock A	Z-5				State: AZ		County:	Moha	re	
USGS Quad?	Name:	Topock						Elevation:	145	(meter	5)
Creek, River,	or Lake N	ame:	Colorado	River							
Is copy	of USGS m	ap marke	ed with su	rvey area a	nd WIFL	sightings attached (as required)?	Yes	X	No	
Survey Coord	linates:	Start:	E	731000	N	3845574	UTM	Datum:	8.	3 (See inst	tractions)
•		Stop:	E	731118	N	3846528	UTM	Zone:	1	<u>1</u>	•
If	survey coor	dinates c	hanged be	tween visits	enter co	ordinates for each su	rvey in commer	nts section	on back	of this page	
	,					information on b				res and page	
Survey #	D. (-111)	Number of	Estimated	Estimated	Nest(s) Found? Y or N	Comments (e.g., bird behavi	or, evidence of pairs or	GPS Coordin			
Observer(s) (Full Name)	Date (m/d/y) Survey Time	Aduk WIFLs	Number of Pairs	Number of Territories	If Yes, number of nexts	breeding;-potential threats [li Diorhabda spp.]). If Diorha USFWS and State WIFL coo	bda found, contact	pairs, or grou	ps of birds	nn for documenting found on dditional sheets if n	
Survey#1	Date:							# Birds	Sex	UTME	UTMN
Observer(s):	5/25/2012										
G Valdez	Start:	1									
J Steinman	915	0	0	0	NA	survey area different then	monthly many				
	Stop:	ı v			144	sarry area contents takin	processing surveys				
	1030	l									
	Total hrs: 75 min.								Ь—		
min.	75 mm. Date:										
Survey#2								# Birds	Sex	UTME	UIMN
J Steinman	6/7/2012 Start:										_
Juliana	639					Single male fitz-bewand w	hitt visual and auditory		\vdash	_	-
	Stop:	1	0	0	NA	detectionSingle male fitz-be			-	—	
	900					auditory det	ection				
	Total hrs:	i									
min.	141 min.										
Survey#3	Date:							# Birds	Sex	UTME	UTMN
Observer(x):	6/21/2012										
J Steinman	Start:										
	535	0	0	0	NA						
	Stop:										
	801							\vdash			
	Total hrs: 146 min.								_		
Survey # 4	Date:							# Blode	Sex	UTME	UIMN
Observariat	6/28/2012							# Birds	Sex	UIME	UIMN
J Steinman	6/28/2012 Start:										
	545								\vdash		-

US Fish & Wildlife Service Parmit #: TE-085026-4 State Wildlife Agency Parmit #: AZ SP790914

Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

NA

Total Nest

Total survey hrs: 559

111 n

7/13/201 et: 549

Total Pairs

UTME

9/30/2012

Birds

If yes, report color combination(s) in the commer section on back of form and report to USFWS.

Were any WIFLs color-banded?

Date Report Completed:

UTMN

 $Fill \ in \ the \ following \ information \ completely. \ \underline{Submit} \ form \ by \ September \ 1^{st}. \ Retain \ a \ copy \ for \ your \ records.$

Reporting Indivi	dual		Je	ff Ste	inman			Phone #	(4)	15) 250-2692
Affiliation			Garcia and	Asso	ciates			E-mail	jsteinman@	@garciaandassociates
Site Name			ock AZ-5				Date report C	ompleted		
Was this site sur	veyed in a p	revious year?	Yes No_	U	nknown_	X				
Did you verify that	t this site nan	ne is consistent v	vith that used in p	oreviou	ıs yrs?	Yes	No	X	No	t Applicable
If name is different	t, what name	(s) was used in t	he past?							
If site was surveyed	d last year, d	id you survey the	e same general ar	ea this	year?	Yes	No		If no, summa	rize below.
Did you survey the	same genera	l area during ea	ch visit to this site	e this y	year?	Yes	No	x	If no, summa	rize below.
Management Auth	ority for Surv	ey Area:	Federal	x	Municipa	l/County	State		Tribal	Private
Name of Managem	nent Entity or	Owner (e.g., To	ento National For	est)			Havasu Natio	nal Wildli	fe Refuge	
Length of area surv	veyed:		879 meters			(km)				
x Identify the 2-3 pre	Native broat Mixed nativ Mixed nativ Exotic/intro	dleaf plants (ent re and exotic pla re and exotic pla duced plants (en	nts (mostly native nts (mostly exoti- nts (mostly exoti- ntirely or almost e	ntirely, e, 50 - c, 50 - entirely	, > 90% nativ 90% nativ 90% exoti	tive) (c) (xotic) ific name.	/shrub foliar layer	at this site		
Average height of	canopy (Do 1	ot include a ran	ge):			20		(meters)		
Attach the following	ng: 1) copy o	f USGS quad/to	pographical map	(REQ	(UIRED) o	f survey area,	outlining survey s	ite and loc	ation of WIF	L detections;
2) sketch or aerial	photo showir	g site location,	patch shape, surv	ey rou	te, location	of any detect	ted WIFLs or their	nests;		
3) photos of the int	terior of the p	atch, exterior of	the patch, and o	verall:	site. Descr	ribe any uniqu	e habitat features	in Comme	nts.	
Comments (such as Attach additional s The first survey r	heets if nece	ssary.								

Territory Summary Table. Provide the following information for each verified territory at your site.

Territory Number	All Dates Detected	UTM E	UTM N	Pair Confirmed? Y or N	Nest Found? Y or N	Description of How You Confirmed Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)

Appendix D

Call Points and UTM coordinates

Name	Added/Eliminated	State	Easting	Northing
		AZ-1		
AZ1-1		AZ	730119	3844889
AZ1-2		AZ	730198	3844830
AZ1-4		AZ	730251	3845035
AZ1-6		AZ	730250	3845090
AZ1-7		AZ	730327	3845103
AZ1-8		AZ	730280	3845148
AZ1-9		AZ	730223	3845178
AZ1-10		AZ	730154	3845179
AZ1-11		AZ	730164	3845226
AZ1-12		AZ	730149	3845290
AZ1-13		AZ	730185	3845344
AZ1-14		AZ	730164	3845390
AZ1-15		AZ	730145	3845431
AZ1-16		AZ	730143	3845465
AZ1-10		AZ	730108	3845500
AZ1-17		AZ	730007	3845533
AZ1-10		AZ	729980	3845567
AZ1-20		AZ	729943	3845609
AZ1-20		AZ	729929	3845657
AZ1-21		AZ	729917	3845690
AZ1-22		AZ	729891	3845727
AZ1-23		AZ	729867	3845759
AZ1-24 AZ1-25		AZ	729873	3845812
AZ1-25		AZ	729823	3845857
AZ1-20	not surveyed/outside APE	AZ	729791	3845915
AZ1-27	not surveyed/outside APE	AZ	729791	3845955
AZ1-20	not surveyed/outside APE	AZ	729713	3845934
AZ1-29	not surveyed/outside APE	AZ	729624	3846016
AZ1-30	not surveyed/outside APE	AZ	729783	3846030
AZ1-31	not surveyed/outside APE	AZ	729736	3846004
AZ1-32	not surveyed/outside APE	AZ	729669	3845972
AZ1-35	not surveyed/outside APE	AZ	729564	3846083
AZ1-35	not surveyed/outside APE	AZ	729504	3846118
AZ1-30	not surveyed/outside APE	AZ	729654	3846178
AZ1-37	not surveyed/outside APE	AZ	729730	3846148
AZ1-30	not surveyed/outside APE	AZ	729748	3846190
AZ1-39	Hot surveyed/outside AF L	AZ	730269	3844972
AZ1-40		AZ	730209	3844898
AZ1-41		AZ AZ	730259	3844828
AZ1-42 AZ1-43		AZ AZ	730259	3844828
AZ1-43 AZ1-44		AZ AZ	730302	
				3845020
AZ1-45		AZ	730329	3844908
AZ1-46		AZ	730360	3844869
AZ1-47		AZ	730334	3845059
AZ1-48		AZ	730180	3845295
AZ1-49	addad 0040	AZ	730256	3845305
AZ1-50	added 2012	AZ	730382	3844927

Name	Added/Eliminated	State	Easting	Northing
AZ1-51	added 2012	AZ	730379	3844901
AZ1-52	added 2012	AZ	730272	3844792
AZ1-53	added 2012	AZ	730289	3844962
		AZ-2		
AZ2-1	added 2012	AZ	730325	3844433
		AZ-3		
AZ3-1	added 2012	AZ	730616	3844747
AZ3-2	added 2012	AZ	730683	3844764
AZ3-3	added 2012	AZ	730740	3844808
AZ3-4	added 2012	AZ	730774	3844846
	·	AZ-4		
AZ4-1	added 2012	AZ	730909	3844998
AZ4-10	added 2012	AZ	730976	3845444
AZ4-11	added 2012	AZ	730962	3845519
AZ4-12	added 2012	AZ	730975	3845261
AZ4-13	added 2012	AZ	730952	3845205
AZ4-14	added 2012	AZ	730936	3845148
AZ4-2	added 2012	AZ	730945	3845027
AZ4-3	added 2012	AZ	730988	3845077
AZ4-4	added 2012	AZ	731026	3845131
AZ4-5	added 2012	AZ	731051	3845213
AZ4-6	added 2012	AZ	731033	3845254
AZ4-7	added 2012	AZ	731021	3845283
AZ4-8	added 2012	AZ	730996	3845334
AZ4-9	added 2012	AZ	730991	3845397
		AZ-5		
AZ5-1	added 2012	AZ	731062	3846290
AZ5-2	added 2012	AZ	731024	3846250
AZ5-3	added 2012	AZ	730991	3846205
AZ5-4	added 2012	AZ	731001	3846123
AZ5-5	added 2012	AZ	731005	3846021
AZ5-6	added 2012	AZ	730998	3845926
AZ5-7	added 2012	AZ	730984	3845838
AZ5-8	added 2012	AZ	730978	3845736
AZ5-9	added 2012	AZ	730976	3845682
AZ5-10	added 2012	AZ	731001	3845574
AZ5-11	added 2012	AZ	731071	3845586
AZ5-12	added 2012	AZ	731029	3845643
AZ5-13	added 2012	AZ	731040	3845694
AZ5-14	added 2012	AZ	731040	3845735
AZ5-15	added 2012	AZ	731028	3845766
AZ5-16	added 2012	AZ	731039	3845808
AZ5-17	added 2012	AZ	731069	3845849
AZ5-18	added 2012	AZ	731100	3845875
AZ5-20	added 2012	AZ	731137	3845931
AZ5-21	added 2012	AZ	731163	3845968
AZ5-22	added 2012	AZ	731176	3845994
AZ5-23	added 2012	AZ	731211	3846046

Name	Added/Eliminated	State	Easting	Northing
AZ5-24	added 2012	AZ	731235	3846092
AZ5-25	added 2012	AZ	731196	3846128
AZ5-26	added 2012	AZ	731248	3846132
AZ5-26	added 2012	AZ	731148	3846127
AZ5-27	added 2012	AZ	731244	3846178
AZ5-28	added 2012	AZ	731240	3846265
AZ5-29	added 2012	AZ	731255	3846296
AZ5-30	added 2012	AZ	731309	3846309
AZ5-31	added 2012	AZ	731375	3846309
AZ5-32	added 2012	AZ	731306	3846378
AZ5-33	added 2012	AZ	731198	3846338
AZ5-35	added 2012	AZ	731134	3846395
AZ5-36	added 2012	AZ	731021	3846316
AZ5-37	added 2012	AZ	731048	3846338
AZ5-38	added 2012	AZ	731068	3846370
AZ5-39	added 2012	AZ	731034	3846406
AZ5-40	added 2012	AZ	731028	3846427
AZ5-41	added 2012	AZ	730965	3846465
AZ5-42	added 2012	AZ	731050	3846482
AZ5-43	added 2012	AZ	731118	3846529
AZ5-44	added 2012	AZ	730920	3846426
AZ5-45	added 2012	AZ	730924	3846391
AZ5-46	added 2012	AZ	730927	3846366
AZ5-47	added 2012	AZ	730902	3846345
AZ5-48	added 2012	AZ	730868	3846365
AZ5-49	added 2012	AZ	730948	3846298
	AZ-1 points surve	yed on first surve	ey round	
5/21-	only surveyed 5/21/12	AZ	731165	3845603
5/21-	only surveyed 5/21/12	AZ	731211	3845676
5/21-	only surveyed 5/21/12	AZ	731201	3845759
5/21-	only surveyed 5/21/12	AZ	731164	3845760
5/21-	only surveyed 5/21/12	AZ	731180	3845796
5/21-	only surveyed 5/21/12	AZ	731197	3845834
5/21-	only surveyed 5/21/12	AZ	731222	3845782
5/21-	only surveyed 5/21/12	AZ	731280	3845811
5/21-	only surveyed 5/21/12	AZ	731304	3845914
5/21-	only surveyed 5/21/12	AZ	731275	3845981
5/21-	only surveyed 5/21/12	AZ	731292	3846011
5/21-	only surveyed 5/21/12	AZ	731322	3846047
5/21-	only surveyed 5/21/12	AZ	731355	3846120
5/21-	only surveyed 5/21/12	AZ	731366	3846181
5/21-	only surveyed 5/21/12	AZ	731371	3846224
5/21-	only surveyed 5/21/12	AZ	731412	3846274
5/21-	only surveyed 5/21/12	AZ	731426	3846343
		CA-1		
CA1-1		CA	728108	3845784
CA1-B	eliminated 2012	CA	728151	3845822
CA1-C		CA	728199	3845750

Name	Added/Eliminated	State	Easting	Northing
CA1-E	eliminated 2012	CA	728261	3845766
CA1-H	eliminated 2012	CA	728350	3845750
CA1-L	eliminated 2012	CA	728399	3845754
CA1-J		CA	728449	3845723
CA1-M	added 2012	CA	727932	3845776
CA1-N	added 2012	CA	727960	3845769
CA1-K		CA	728081	3845821
CA1-O	added 2012	CA	728245	3845750
CA1-P	added 2012	CA	728344	3845721
CA1-Q	added 2012	CA	728403	3845709
CA1-T	added 2012	CA	728901	3845676
CA1-U	added 2012	CA	728847	3845667
CA1-V	added 2012	CA	728788	3845654
		CA-2		
CA2-C	eliminated 2012	CA	728355	3845573
CA2-F	-	CA	728507	3845579
CA2-G		CA	728558	3845596
CA2-K		CA	728595	3845612
CA2-L		CA	728646	3845620
CA2-N		CA	728708	3845636
CA2-O	eliminated 2012	CA	728921	3845660
CA2-P	eliminated 2012	CA	728844	3845628
CA2-R	added in 2009	CA	728754	3845589
CA2-S		CA	728693	3845581
		CA-3		
CA3-3		CA	729201	3845578
CA3-A		CA	729236	3845558
CA3-B		CA	729239	3845613
CA3-C		CA	729285	3845544
CA3-D		CA	729199	3845638
CA3-E		CA	729176	3845691
CA3-F		CA	729127	3845653
CA3-G		CA	729116	3845711
CA3-H	added in 2009	CA	729038	3845681
CA3-I		CA	728983	3845681
CA3-J		CA	729202	3845543
<u> </u>		CA-4		00.00.0
CA4-D		CA	729415	3845232
CA4-E		CA	729387	3845310
CA4-F		CA	729449	3845300
CA4-G		CA	729434	3845366
CA4-H		CA	729537	3845317
CA4-I		CA	729499	3845350
CA4-L		CA	729549	3845257
CA4-M		CA	729395	3845189
CA4-N		CA	729354	3845200
CA4-O		CA	729357	3845263
J/ \T U		CA	729384	3845151

Name	Added/Eliminated	State	Easting	Northing
CA4-Q		CA	729473	3845265
CA4-R	added in 2009	CA	729628	3845196
CA4-S	added in 2009	CA	729686	3845109
CA4-T	added in 2009	CA	729710	3845206
CA4-U	added in 2009	CA	729665	3845280
CA4-V	added 2012	CA	729550	3845406
CA4-W	added 2012	CA	729594	3845360
		CA-5		
CA5-5		CA	729893	3844498
CA5-B		CA	729949	3844561
CA5-C		CA	729927	3844607
CA5-D		CA	729955	3844631
CA5-E		CA	729949	3844700
CA5-F		CA	729993	3844556
CA5-G		CA	730000	3844581
CA5-H		CA	730019	3844519
CA5-I		CA	729890	3844688
CA5-J		CA	729889	3844738
CA5-K		CA	729874	3844642
CA5-L	added 2012	CA	729930	3844459
CA5-M	added 2012	CA	730025	3844330
		CA-6		
CA6-6		CA	729163	3845340
CA6-A		CA	729148	3845387
CA6-B		CA	729193	3845389
CA6-C		CA	729199	3845450
CA6-J		CA	729249	3845445
CA6-K		CA	729249	3845403
CA6-R		CA	729150	3845438
CA6-S		CA	729100	3845406
		CA-7		
CA7-A	added 2012	CA	730284	3844250
CA7-B	added 2012	CA	730206	3844225
CA7-C	added 2012	CA	730171	3844230
CA7-D	added 2012	CA	730097	3844233
		Detections		
YUCR AZ1-8		AZ	730285	3845150
GBHE nest		AZ	731151	3845960
SWFL6-5-12		CA	729551	3845409
SWFL6-7-12		AZ	730979	3845769
YUCR AZ1-14		AZ	730168	3845384
YUCR AZ3-4		AZ	730778	3844843
AZBV 6/19/2012		AZ	729867	3845759
AZBV 6/24/2012		AZ	729867	3845759