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October 29, 2014

Ms. Amanda Dodson U.S. Department of the Interior Bureau of Land Management 2610 Sweetwater Avenue Lake Havasu City, AZ 86406

Ms. Carrie Marr U.S. Fish and Wildlife Service Project Manager 2321 W Royal Palm Road, Suite 103 Phoenix, AZ 85021

**Subject:** 2014 Southwestern Willow Flycatcher Presence/Absence Surveys for the PG&E Topock Compressor Station

Dear Ms. Dodson & Ms. Marr:

This letter transmits the 2014 Southwestern Willow Flycatcher Presence/Absence Surveys for the PG&E Topock Compressor Station. This report was prepared in conformance with the 2007 Programmatic Biological Assessment, general project management measure 26, and includes information on the 2014 annual field survey for the southwestern willow flycatcher (SWFL) on lands near the PG&E Topock Compressor Station. The survey was conducted by Garcia and Associates (GANDA), and followed protocols established by the U.S. Fish and Wildlife Service.

Five SWFL were observed during the 2014 survey. Based on the single detections for each observation, it was concluded that they were most likely transient SWFL rather than nesting birds. However, because more transient SWFL were observed in 2014 than any of the previous surveys, it was thought this could indicate an increase in vigor of nearby populations. As approved in the Final Groundwater Remedy Programmatic Biological Assessment on July 7, 2014, the frequency of SWFL surveys will be every three years, with the next survey to be conducted in 2017.

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If you have any questions, please do not hesitate to contact me at (805) 546-5243.

Sincerely,

Gonne Make

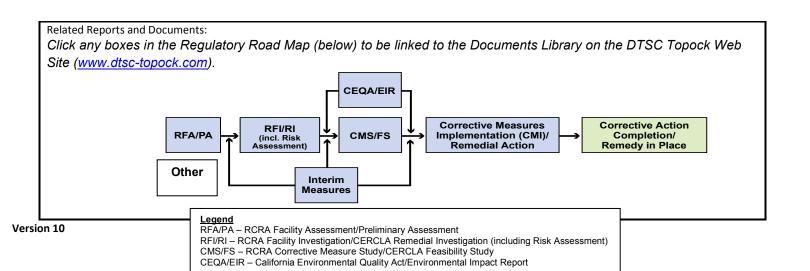
Yvonne Meeks Topock Remediation Project Manager

Cc:

Aaron Yue / DTSC David Vigil / CDFW Dawn Addelson / ADGF

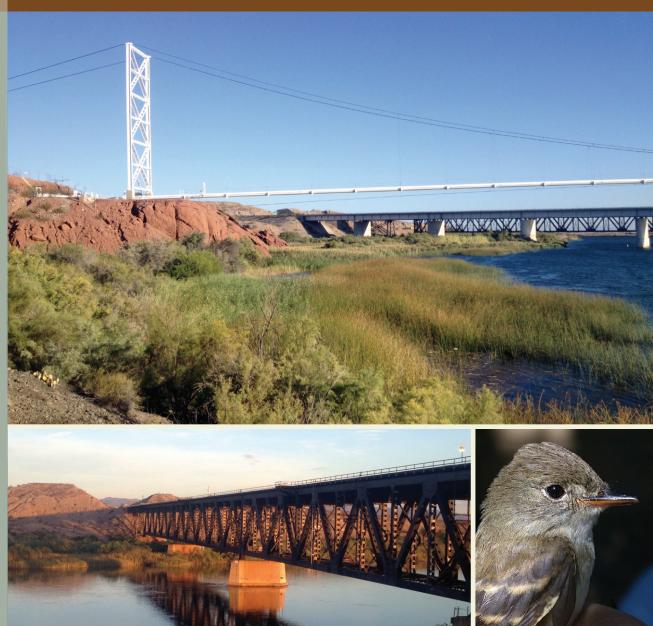
Enclosure

Topock Project Executive Abstract		
Document Title:	Date of Document: October 29, 2014	
2014 Southwestern Willow Flycatcher Presence/Absence Surveys for the PG&E Topock Compressor Station Needles, California Final Document? X 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:       Other / Explain:       Memo       Memo       Memo	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.		
	d July 2014 in areas near the PG&E Topock Compressor Station. single detections for each observation, it was concluded that they ever, because more transient SWFL were observed in 2014 than any	
Recommendations:		
This report is for information only.		
How is this information related to the Final Remedy or Regulatory Req	uirements:	
The survey and this report fulfill the requirement of project manageme	ent Measure 26 of the PBA.	
Other requirements of this information? None.		





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



# GANDA

# Prepared by:

Garcia and Associates 2601 Mission Street, Suite 600 San Francisco, California 94110 2014 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 2014

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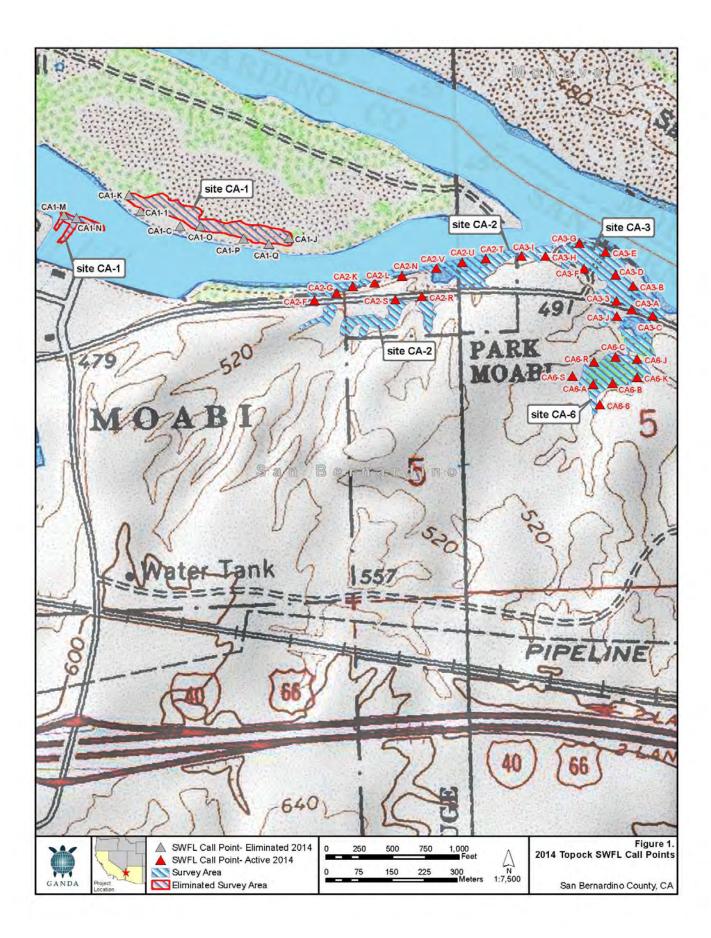
#### Introduction

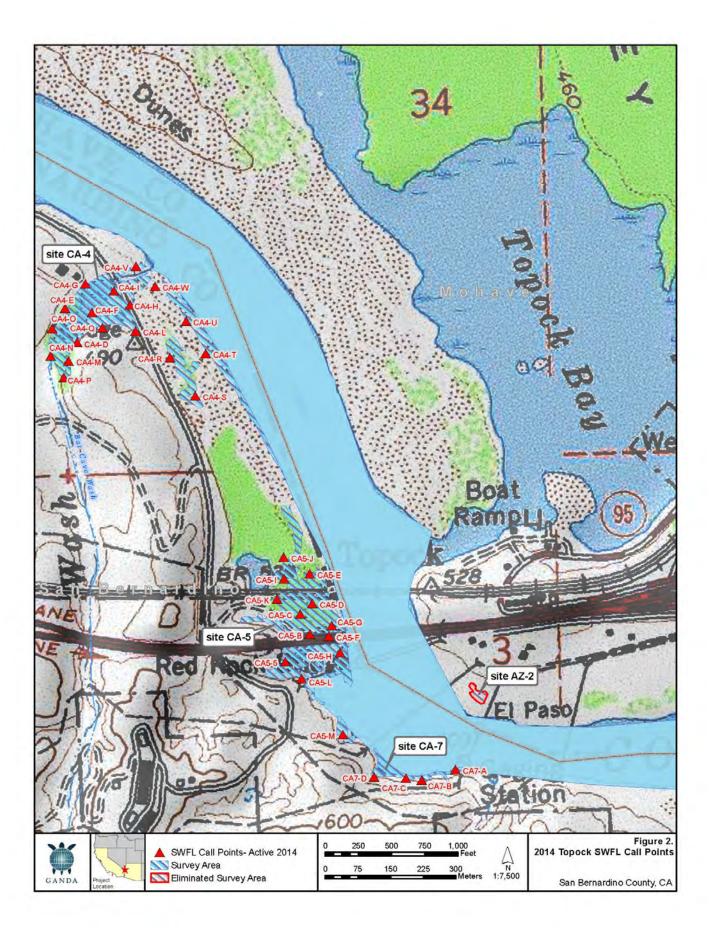
Under contract to CH2M HILL, Garcia and Associates (GANDA) conducted a protocol survey for the southwestern willow flycatcher (SWFL) (*Empidonax traillii extimus*) for Pacific Gas and Electric (PG&E) near the Topock Compressor Station Groundwater Extraction Project, 15 miles southeast of Needles, California. 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 Wildlife (CDFW) and the U.S. Fish and Wildlife Service (USFWS). In addition to this year's survey, GANDA conducted seven previous surveys at this site between 2005 and 2012. 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), which states:

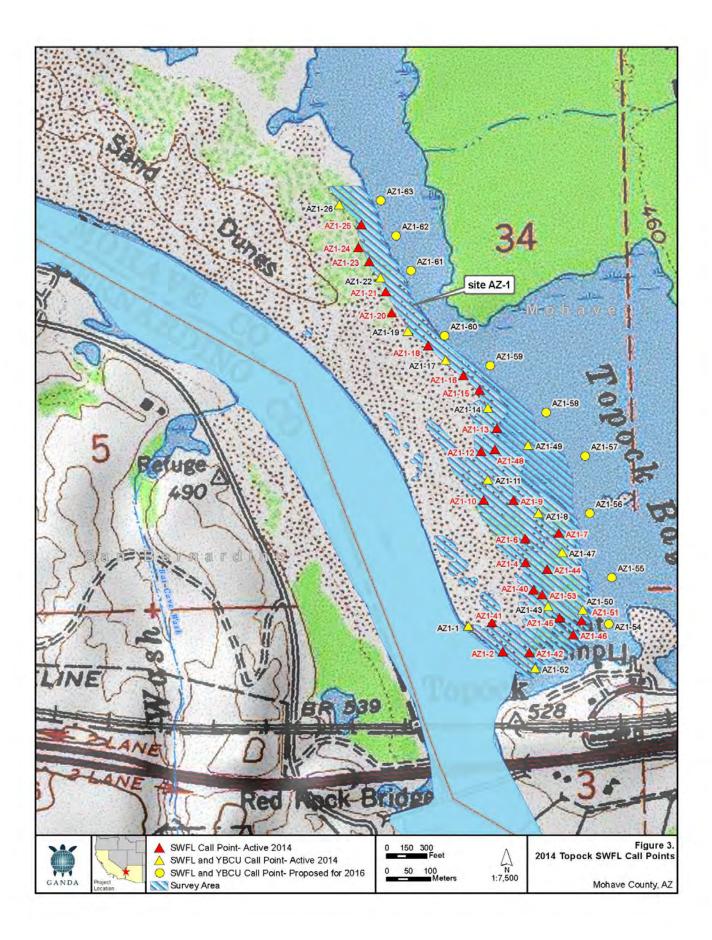
Riparian areas surrounding the proposed action site and subject to influence of operations and maintenance activities shall be surveyed for southwestern willow flycatcher according to the protocol established by the USFWS. These surveys shall be completed each year by a biologist permitted by the USFWS 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.

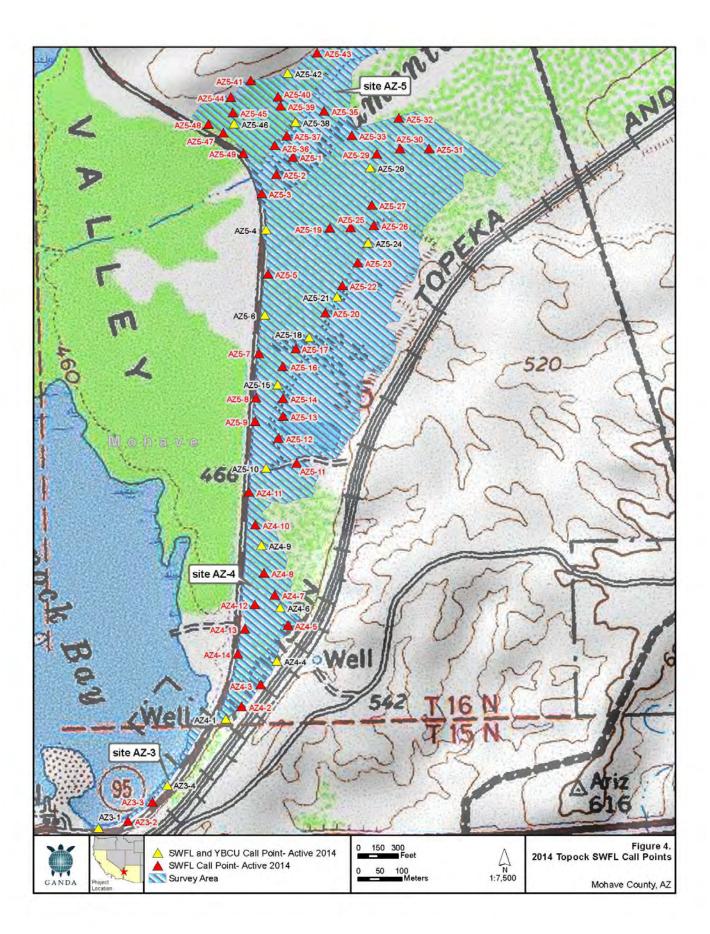
#### **Site Description**

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 managed by the Bureau of Land Management. Sites CA-1 and CA-2 are located in Moabi Regional Park. Sites CA-5 and CA-7 are in the California portion of the Havasu National Wildlife Refuge. 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 Kinder Morgan (Figures 3 and 4). Due to habitat fragmentation and small patch size sites CA-1 and AZ-2 were eliminated from the survey effort in June of this year with the permission of the USFWS (Appendix A). The 2014 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 2005). Photographs of the survey sites are provided in Appendix B.









### **Vegetation and Habitat Quality**

The most abundant plant species in the survey area include tamarisk (*Tamarix ramosissima* and *Tamarix aphylla*), coyote willow (*Salix exigua*), catclaw acacia (*Senegalia greggii*) and arrow weed (*Pluchea sericea*). 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 C.

#### **Habitat Quality**

The habitat quality of the survey sites and the area surrounding them has been reassessed 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) were assessed to determine if any areas should be eliminated or added to the survey area. This year, it was determined that sites CA-1 and AZ-2 no longer contained sufficient habitat to support breeding SWFL. Site CA-1 had diminished in habitat quality because of the removal of vegetation and the expansion of the Pirate Cove Resort in Moabi Regional Park. Site AZ-2 was fenced off and under construction during the 2012 habitat assessment and survey, and, therefore, was not assessed. In 2014, AZ-2 was determined to be too small to support breeding SWFL and was eliminated.

Overall, the survey area is of moderate habitat quality for SWFL. The Colorado River provides standing surface water throughout the breeding season and includes 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 Moabi Regional Park, Interstate 40, the Burlington Northern Santa Fe Railway, The Pirate Cove Resort, 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 mechanical clearing of the vegetation in that area, may be contributing to the degradation of habitat quality for SWFL at these sites. Appendix B 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 CDFW Permit SC-007801). All surveys followed the protocol outlined by Sogge *et al.* (2010). This protocol replaces the 1997 *A Natural History* 

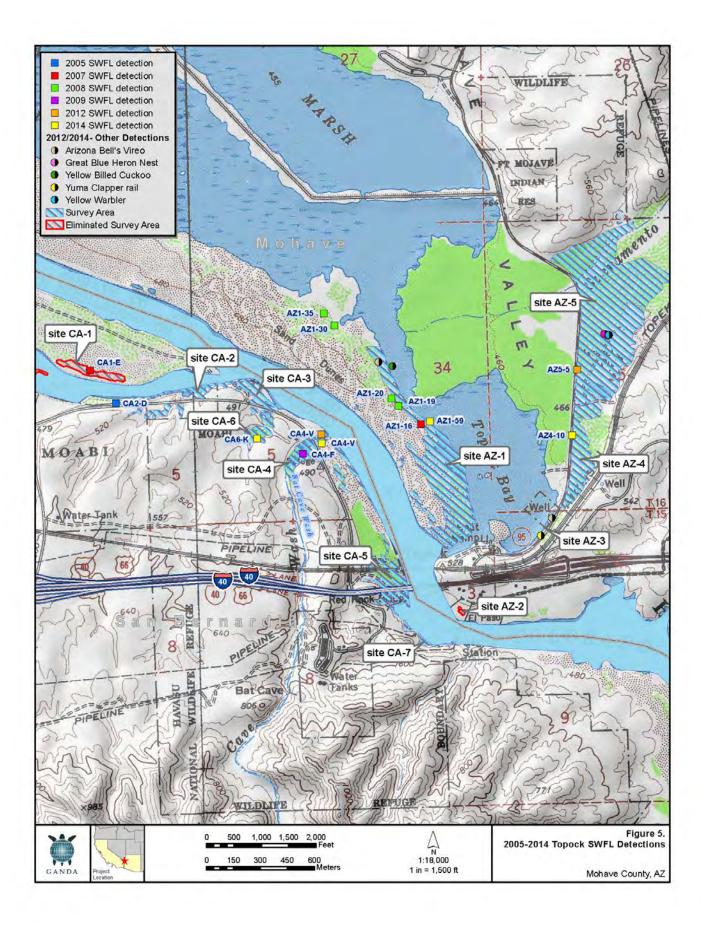
Summary and Survey Protocol for the Southwestern Willow Flycatcher and the 2000 revision prepared by the USFWS (USFWS 2000). For project-related surveys, the 2010 protocol recommends that five surveys be conducted during three survey periods, with two surveys occurring within each of the last two survey periods. The three survey periods are defined as May 15 to 31, June 1 to 24, and June 25 to July 17. Mr. Steinman conducted the SWFL surveys from May 20 to 23, June 3 to 6, June 16 to 19, July 1 to 3, and July 15 to 17. All surveys were conducted between 5:00 AM and 10:30 AM. Completed survey forms for each site are included in Appendix D. This year western yellow-billed cuckoo (YBCU) (*Coccyzus americanus*) surveys were added to the survey effort at the Arizona sites with the exception of the eliminated site AZ-2. Surveys for the two species were combined when the survey windows overlapped on June 16-17, June 30, July 2 and July 16-17. Figures 3 and 4 show the call points that were surveyed for both species. The YBCU surveys are addressed in a separate report.

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. Appendix E includes a complete list of call points surveyed in 2014 and their corresponding Universal Transverse Mercator (UTM) coordinates.

At each survey site, the first 10 minutes were spent 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 were detected on May 19 at call points CA4-V and CA6-K. Both of these detections were visual and auditory, with the characteristic "fitz-bew" call heard during both detections. Two SWFL were observed at CA4-V and a single SWFL was observed at CA6-K. A SWFL was detected on May 22 at site AZ4-10; this was a visual detection of a single SWFL and no vocalizations were heard. A SWFL was also detected on August 7 at site AZ-1, at an unestablished SWFL call point during a YBCU survey; this detection was a visual and auditory detection of a single SWFL, with the characteristic "fitz-bew" call heard. All of these detections were in response to the SWFL vocalization being played. In the case of the detection on August 7, the SWFL call was unintentionally played while playing YBCU calls. No additional SWFL were detected during any of the other surveys or at any of the other survey sites. Due to the early and late dates of the detections and only having a single detection event in all 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, at call point CA4-F AZ5-8 in 2009 and at call point CA4-V and AZ5-5 in 2012 (GANDA 2005, 2006, 2007, 2008, 2009, 2010 and 2012). The locations of all SWFL observations recorded since 2005 are shown in Figure 5.



#### Figure 5. Southwestern willow flycatcher detections (2005-2014).

#### **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 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*), and black-tailed gnatcatcher (*Polioptila melanura*). Complete lists of wildlife species observed are included in Appendix B.

Notable observations during the 2014 surveys were detections of Arizona Bell's vireo (*Vireo bellii arizonae*), brown-headed cowbird (*Molothrus ater*), yellow warbler (*Setophaga petechia*), YBCU, and Yuma clapper rail (*Rallus longirostris yumanensis*). This year two great blue heron nests (*Ardea herodias*) were observed in site AZ-5 at the same location that contained a single nest in 2012. The locations of all notable observations are shown in Figure 5 and their GPS coordinates are located in Appendix E.

#### Conclusions

Five SWFL were observed during the 2014 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 in each location indicates that they were most likely transient SWFL and that the species is not currently nesting in the survey areas. However, more transient SWFL were observed in 2014 than any of the previous surveys and could indicate an increase in vigor of nearby populations. Coupled with the cumulative detections of SWFL over the years and the presence of suitable habitat (Ellis, *et al.* 2008, SWCA 2004), there is potential for SWFL to breed in the survey area in the future. Given these conditions, continuing the survey effort is recommended, as agreed to in the Final Groundwater Remedy PBA (CH2M HILL 2014). Additionally, given the elimination of sites AZ-2 and CA-1 and the detection of a SWFL at the edge of Topock Marsh in Site AZ-1 continuing to assess the habitat quality would be recommended in addition to establishing new call points along the Topock Marsh for the 2016 surveys (Figure 3).

#### References

CH2M HILL. 2007. Programmatic Biological Assessment for Pacific Gas and Electric Topock Compressor Station Remedial and Investigative Actions. January 2007.

2014. Final Programmatic Biological Assessment for the Final Groundwater Remedy at the Topock Compressor Station. April 28.

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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.

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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.

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

- Sogge, M.K., Ahlers, Darrell, and Sferra, S.J., 2010, A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher: U.S. Geological Survey Techniques and Methods 2A-10, 38 p.
- SWCA Environmental Consultants. 2004. Southwestern Willow Flycatcher Surveys, Demography, and Ecology along the Lower Colorado River and Tributaries. Annual Report. February.
- U.S. Fish and Wildlife Service (USFWS). 2000. Southwestern Willow Flycatcher Protocol Revision 2000. July 11, 2000.

2005. Federal Register, Department of the Interior, Fish and Wildlife Service. Endangered and Threatened Wildlife and Plants; Designation of Critical Habitat for the Southwestern Willow Flycatcher; Final Rule. 50 CFR Part 17. RIN 1018-AT88. October 19.

Appendix A

USFWS Approval to Eliminate Sites AZ-2 and CA-1

From: Marr, Carrie [mailto:carrie marr@fws.gov] Sent: Monday, June 23, 2014 1:45 PM To: Strohl, Virginia Subject: Re: FW: swfl site elimination.

#### Virginia,

PG&E's southwestern willow flycatcher (WIFL) survey contractor, Garcia and Associates (GANDA), has proposed eliminating surveys at two call sites from the 2014 survey where habitat modification has occurred or site access is blocked. GANDA has determined that neither site currently provides sufficient habitat to support breeding WIFLs. The first site, CA-1, was initially surveyed in 2006 and the size and quality of the habitat since then has been significantly reduced. The habitat at this survey location has been isolated and fragmented by construction of recreation equipment and ATV paths. The second site, AZ-2, was first surveyed in 2012 and the habitat size and quality remain unchanged. However, access to the site has been blocked, preventing complete evaluation of the site. Recently, GANDA (WIFL contractor) also evaluated the size of the site and determined that it is not large enough to support WIFL nesting (the patch size is 0.1 ha vs 0.8 ha necessary for breeding WIFLs, Sogge et al. 2010).

I agree with GANDA and PG&E's proposal to eliminate survey sites CA-1 and AZ-2 given the documentation provided for the habitat disturbance and fragmentation at CA-1 and the restricted access and small size of AZ-2. Ten WIFL survey stations will continue to be surveyed to determine WIFL occurrence in and around the PG&E Topock Compressor Station and other sites in CA and AZ involved in the groundwater remedy and soil investigation. In the 2014 WIFL survey report, please include a write-up of the eliminated survey sites and why they were discontinued.

Thanks,

Carrie

Environmental Contaminant Specialist U.S. Fish and Wildlife Service Arizona Ecological Services Office 2321 W Royal Palm Road, Suite 103 Phoenix, AZ 85021 602.242.0210, fax 602.242.2513 http://www.fws.gov/southwest/es/arizona/contaminants.htm Appendix B

Photo Log



Site AZ-1 Exterior



Site AZ-1 Interior



Site AZ-2 Exterior



Site AZ-2 Interior



Site AZ-3 Exterior



Site AZ-3 Interior



Site AZ-4 Exterior



Site AZ-4 Interior



Site AZ-5 Exterior



Site AZ-5 Interior



Site CA-1 Exterior



Site CA-1 Interior



Site CA-2 Exterior



Site CA-2 Interior



Site CA-3 Exterior



Site CA-3 Interior



Site CA-4 Exterior



Site CA-4 Interior



Site CA-5 Exterior



Site CA-5 Interior



Site CA-6 Exterior



Site CA-6 Interior



Site CA-7 Exterior



Site CA-7 Interior

Appendix C

Incidental Plant, Vertebrate and Avian Species

# **Incidental Plant Species**

Common Name	Latin Name
Arrowweed	Pluchea sericea
Athel Salt Cedar	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
Russian Thistle	Salsola tragus
Catclaw Acacia	Acacia greggii
Screw Bean Mesquite	Prosopis pubescens
Palo Verde	Cercidium microphyllum
Salt Cedar	Tamarix ramosissima
Coyote Willow	Salix exigua
Gooding's Willow	Salix gooddingii
Cattail	Typha angustifolia

# **Incidental Vertebrate Species**

Common Name	Scientific Name	
American Bullfrog	Rana catesbeiana	
Beaver	Castor canadensis	
Black-tailed Jackrabbit	Lepus californicus	
Burro	Equus asinus	
Coyote	Canis latrans	
Desert Cottontail	Sylvilagus audubonii	
Desert Iguana	Dipsosaurus dorsalis	
Feral Hog	Sus scrofa	
Gray Fox	Urocyon cinereoargenteus	
Western Side-blotched Lizard	Uta stanburiana	

# **Incidental Avian Species**

Common Names	Scientific Names
Abert's Towhee	Pipilo aberti
American Coot	Fulica americana
American Kestrel	Falco sparverius
Anna's Hummingbird	Calypte costae
Arizona Bell's Vireo	Vireo bellii
Ash-throated Flycatcher	Myiarchus cinerascens
Bewicks Wren	Thryomanes bewickii
Black-chinned Hummingbird	Archilochus alexandri
Black-tailed Gnatcatcher	Polioptila melanura
Black-crowned Night Heron	Nycticorax nyciticorax
Brown-headed Cowbird	Molothrus ater
Bushtit	Psaltriparus minimus
California Gull	Larus californicus
Canada Goose	Branta canadensis
Cliff Swallow	Petrochelidon pyrrhonota
Common Raven	Corvus corax
Common Yellowthroat	Geothlypis trichas
Cooper's Hawk	Accipiter cooperil
Double-crested Cormorant	Phalacrocorax auritus
Gambel's Quall	Callipepla gambelii
Great Blue Heron	Ardea herodías
Great horned Owl	Bubo virginianus
Greater Roadrunner	Geococcyx californianus
Great-tailed Grackle	Quiscalus mexicanus
Green Heron	Butorides virecens
House Finch	Carpodacus mexicanus
Lesser Goldfinch	Carduelis psaltria
Killdeer	Charadrius vociferous
Lesser Nighthawk	Chordeiles acutipennis
Loggerhead Shrike	Lanius Iudovicianus
Mallard	Anas platyrhynchos
Marsh Wren	Cistothorus palustris
Mourning Dove	Zenaida macroura
Northern Mockingbird	Mimus polyglattos
Northern Rough-winged Swallow	Stelgidopteryx serripennis
Phainopepla	Phainopepla nitens
Pied-billed Grebe	Podilymbus podiceps
Red-winged Blackbird	Agelaius phoeniceus
Summer Tanager	Piranga rubra
Snowy Egret	Egretta thula
Song Sparrow	Melospiza melodia
Southwestern Willow Flycatcher	Empidonax traillii extimus
Townsend's Warbler	Dendroica townsendi
Turkey Vulture	Cathartes aura
Verdin	Auriparus flaviceps
Western Grebe	Aechmorphous accidentalis
Western Kingbird	Tyrannus verticalis
White-faced Ibis	Plegadis chihi
White-winged Dove	Zenaida asiatica
Wilson's Snipe	Gallinago delicata
Yellow-billed Cuckoo	Coccyzus americanus
Yellow-breasted Chat	Icteria virens
Yellow-Headed Blackbird	Xanthocephalus xanthocephalus
Yuma Clapper Rail	Rallus longirostris yumanensis

Appendix D

Survey Forms

USGS Quad	Name:	Topock	1.00			1	Elevation	134	(meter	3)
Creek, River			Colorado	River			or other the			1
					nd WIFL	sightings attached (as required)?	Yes	X	No	
Survey Coor	1 C	Start:		729823	N		Datum:	83		tructions)
Jul 19 2001	childres,	Stop:	-	730272	N		Zone:	11		a av a chay
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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 Inreats [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	IFL Detections on for documentin found on dditional sheets if r	
Survey #1	Date:			-			# Birds	Sex	UTM E	UTMN
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	Stop: 9:08						-			-
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Hostver(s)	6/3/2014									
Steinman	Start: 6:01						-			-
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	Total hrs						-	1		1
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		ō	õ	ũ	NA	AZBV and BHCO observed	-	-	-	-
	Stop: 8:57						· · · · ·	1		-
	Total hrs:	· · · · ·					1	5		
Survey # 4	190.0 Date:		-	÷	-		# Birds	Sex	UTME	UTMN
(bserver(a)	7/2/2014									
Steinman	Start: 5:38						1	1		
		Ō	0	0	NA	BHCO and NOSH				-
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	203.0 Date:	-		-	-		# Birds	Sex	UTME	UTMN
Survey # 5 baerver(s)	7/16/2014						ar birod	- Coun	CIN D	
Steinman	Start:		-				-		(	1
	6:30	0	0	0	NA	AZBV adult and juvenille observed and YBCU observed in response to YBCU call	-		-	-
	Stop: 8:55									
	Total hrs:	1000						n n	e 1	1
Survey # 6	145,0 Date:	-		-	-		# Birds	Sex	UTM E	UTMN
baerver(s)	8/7/2014					the second second second	1	1-11	-	
Steinman	Start: 8:10		-			SWFL responds to accidental SWFL call at 8:10	-		6	
	and the second se	1	0	0	NA	while conducting YBCU surveys. Visual and auditory detection. Very vocal with fitz-bew and	-	-	-	-
	Stop: 8:20					whits calls.	-		/	
	Total hrs:						-	1-2		
Overall Site S	N/A			2						-
otals do not equal th		Total Adult	an and	Total	in and	and the second sec				
clumn. Include only	resident adults	Residents	Total Pairs	Territories	Total Nests	Were any WIFLs color-banded	Yes		No X	
Do not include migra ledglings	and the second	1000		1000		and a start of the				
le careful not to dout ndividuals	ble count					If yes, report color col	nbination(s)	in the con	nments	
fotal survey h	ITS: 15.0	0	0	0	na	section on back of f				
eporting Indiv			-	Jeff Steinma		Date Report Complete		1000	9/30/2014	-
	TOOR IS			Jett Stenna		Date Report Complete			M/ 60/2014	

Reporting Individual	1	eff Steinman		Phone #	(415) 250-2692
Affiliation	Garcia an	d Associates		E-mail	isteinman@garciaandassociates
Site Name	Topock AZ-1		L L	ate report Completed	9/30/2014
	in a previous year? Yes <u>x</u> Note name is consistent with that used in		Yes I	No	Not Applicable
If name is different, what	name(s) was used in the past?	And a second		Topack AZ	
If site was surveyed last y	ear, 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 s	ite this year?	Yes x	No	If no, summarize below.
Management Authority fo	r Survey Area: Federal	x Municipal/C	ounty	State	TribalPrivate
Name of Management En	tity or Owner (e.g., Tonto National F	orest)	1	lavasu National Wildli	fe Refuge
Length of area surveyed:	1.2		(km)		
Nativ Mixed	8: Check (only one) category that bes e broadleaf plants (entirely or almost l native and exotic plants (mostly nati native and exotic plants (mostly exo	entirely, > 90% nativ ve, 50 - 90% native)	e)	uo tettai tayet at ilus site	
Exotic	/introduced plants (entirely or almost	entirely, > 90% exo	tic)		
Identify the 2-3 predomin	ant tree/shrub species in order of don	iinance. Use scientifi	c name.		
	Tomarix	spp., Salix Gooddin,	gii, Accacia gra	egii,	
Average height of canony	(Do not include a range):		5	(meters)	
				(meters)	

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections: 2) sketch or aerial photo showing 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. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features,

Attach additional sheets if necessary.

The survey area is smaller then that was surveyed in previous years to eliminate the survey of areas outside the projects Are of Potential Effect

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)
		-			1	
_					7 - 2	

USGS Quad	Name:	Topock					Elevation:	144	(meter	(a
Creek, River,			Colorado	Direr	_		sievauon.	144	uneter	5)
			Colorado		AUTET	1.1.4	P.	**	A7	-
and the second						sightings attached (as required)?	Yes	X	No	T.
Survey Coord	dinates;	Start:	-	730324	N		Datum:			nuctions)
		Stop:		730324	N	And the second se	Zone:			
If	survey coor	dinates cl				ordinates for each survey in commen		on back	of this page.	
			**Fill i	n additio	nal site	information on back of this pa	ige**			
			· · ·		Nest(s)					
Survey #	10 m 11	Number of	Estimated	Estimated	Found?				I'L Detections	
Observer(s)	Date (m/d/y)	Adult	Number of	Number of	YorN	breeding: potential threats [livestock, cowbirds, Diorhabda spp.]). If Diorhabda found, contact	(this is an op pairs, or grou		an for documenting	individuals
(Full Name)	Survey Time	WIFLS	Pairs	Territories	If Yes, number of	USFWS and State WIFL coordinator.			Iditional sheets if n	ccessary.
	1000				number of					
Survey #1	Date:		1				# Birds	Sex	UTM E	UTM
Observer(s)	5/22/2014							1		1
Steinman	Start:							-	-	-
	9:01	1			105			-		
	Stop:	0	0	0	NA					
	9:19									
	Total hrs:	1					1		-	
	18 min.							1		1
Survey # 2	Date:	-	-		-		# Birds	Sex	UTM E	UTM
Observer(s)	6/4/2014									
) Steinman	Start:	r								
	9:01	121								
	Stop:	0	0	Ø	NA		12		0	
	9:12				_		1			
	Total hrs:									
	11min						-	1		
Survey # 3	Date:	-	(		1.		# Birds	Sex	UTM E	UTM
Observer(s)	6/19/2014	1								
J Steinman	Start:									
	9:40	0	.0		NTA.		1			
	Stop:	ů.	. 9	Q	NA					
	9:45						-			
	Total hrs:						1	1		
	5 min.								1	
Survey #4	Date:						# Birds	Sex	UTME	UTMN
Observer(\$)	N/A						in the second			1
	Start:								-	
		0	.0	D	NTA	Company Aline Witnessend	1			
	Stop:	U.	-0	u	NA	Survey Area Eliminated			1	
	-							1		
	Total hrs:							1		-
	V	· · · · · · · ·	1	C	-	a second s	1.00		1	1
Survey #5	Date:						# Birds	Sex	UTME	UTMN
(boerver(s)	N/A	1					-	1		100
	Start:								1	
		0	0	Ó	NA	Survey Area Eliminated	1	1	-	
	Stop:				ear					
	-									
	Total hrs:									
Descell Charles										
Overall Site St Totals do not equal th		Back 1 8 4		10.212						
otais do not equal the column Include only		Total Adult Residents	<b>Total Pairs</b>	Total Territories	Total Nests	Wana and WITT to to to t			No	
lo not include migrae	nts, nestlings, and	a constraints	$\leq r$	- en averes	1.5	Were any WIFLs color-banded	Yes		No	
lédglings Se careful not lo doub	le count	-	-	-			1. ar 71	-		•
nshvi duala		0	D	0	0	If yes, report color co				
fotal survey h	rs:	1				section on back of f	orm and rep	ort to USF	WS.	
	idual:			Jeff Steinma	1	Date Report Complete			9/30/2014	

	al	Jeff Steinman		Phone #	(415) 250-269	2
Affiliation		Garcia and Associates		E-mail	isteinman@garciaandas	sociate
Site Name		opock AZ-2	2	Date report Completed	9/30/2014	
and the second sec	yed in a previous yea ns site name is consister	r? Yes No Unknown x nt with that used in previous yrs?	Yes	No	Not Applicable	x
If name is different, v	what name(s) was used i	in the past?				
If site was surveyed l	ast year, did you survey	the same general area this year?	Yes	No	If no, summarize below.	
Did you survey the sa	ame general area during	each visit to this site this year?	Yes x	No	If no, summarize below.	
Management Author Name of Managemer		FederatMunicipal Tonto National Forest)	County	State	Tribal Privale	x
Length of area surve	yed:	10 meters	_(km)			
Vegetation Character	istics: Check (only one	) category that best describes the prede	ominant tree/sh	rub foliar layer at this site	÷	
		) category that best describes the pred- entirely or almost entirely, > 90% nati		rub foliar layer at this site		
P	Vative broadleaf plants (		ve)	nıb foliar layer at this site		
P	Vative broadleaf plants ( Vixed native and exotic	entirely or almost entirely, > 90% nati	ve) )	nıb foliar layer af this site		
P	Native broadleaf plants ( Mixed native and exotic Mixed native and exotic	entirely or almost entirely, > 90% nati plants (mostly native, 50 - 90% native	ve) ) )	nıb foliar layer at this site		
x F	Native broadleaf plants ( Mixed native and exotic Mixed native and exotic Mixed native and exotic Exotic/introduced plants	entirely or almost entirely, > 90% nati plants (mostly native, 50 - 90% native plants (mostly exotic, 50 - 90% exotic	ve) ) ) otie)	nıb foliar layer at this site		

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing 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. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features.\_\_Attach additional sheets if necessary\_\_\_\_\_

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)
		1				
					1	
				-		
		_		-		
			-			

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

USGS Quad	Name	Topock					Elevation:	141	(meter	s)
Creek, River,			Colorado	Divor			sievauon.	141	(interes)	6)
					AUTET	1.1.4	0	**	A1	_
and the second second second						sightings attached (as required)?	Yes	X	No	T.
Survey Coord	dinates:	Start:	-	730616	N		Datum:			nuctions)
		Stop:	E	730773	N	3844846 UTM	Zone:	11	(	
If	survey coor	dinates c	hanged bet	ween visits	s, enter co	ordinates for each survey in commen	ts section	on back	of this page.	
						information on back of this pa				
	1	-			Nest(s)	,	8-			
Survey # Observer(s) (Full Name)	Date (m/d/y) Survey Time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Found? Y or N If Yes, number of	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 opt pairs, or grou	ional colum ps of birds	PL Detections in for documenting found on lditional sheets if n	
	Data	-			nests					1
Survey #1	Date:						# Birds	Sex	UTM E	UTMN
Observer(s)	5/22/2014	1 m					1			
J Steinman	Start:									
	5:21	ö	0	Ó	NA	YUCL and AZBV heard			-	
	Stop:				1.11	A THE BALL MADE WAR S	-			
	5:42						1			
	Total hrs:									
	21min							1		1
Survey # 2	Date:				1		# Birds	Sex	UTM E	UTM
Observer(s)	6/4/2014								1	
) Steinman	Start:									
	5:30					and a second second second				1
	Stop:	0	0	0	NA	YUCL and AZBV heard				
	5:50				-					
	Total hrs:									
	20min						-	-		-
Survey # 3	Date:				-		# Birds	Sex	UTME	UTM
Observer(s)							# Ditus	DEA	UTNELS	GIMI
J Steinman	6/17/2014 Start:						-			
	5:23						-	-	-	-
	Stop:	0	.0	0	NA	AZBV heard	-			
							-		-	-
	5:50 Total hrs:						-			-
	27min					1	-			-
Character of the		-		_						
Survey #4	Date:						# Birds	Sex	UTME	UTMN
Observer(\$)	6/30/2014						-			
J Steinman	Start:						-			1
	8:30	0	0	D	NA			1		
	Stop:									
	8:55								1	
	Total hrs:									
	25min		1	C (	-	1.0	1000			-
Survey #5	Date:						# Birds	Sex	UTM E	UTMI
Observer(s)	7/17/2014	1				i i mana		Contraction of the		
J Steinman	Start:									
	9:19	0	0	Ó	NA	-				
	Stop:	ų.	4	ų.	NA				-	
	9:40									
	Total hrs:									
	21min					1.4	1			
Overall Site St	unmary	-		-						
Totals do not equal th	e sum of each	Total Adult	mader	Total						
column Include only	remdent a dultr.	Residents	Total Pairs	Territories	Total Nests	Were any WIFLs color-banded	Yes		No	
Do not include migrae ledglings	nts, nemings, and									
Be careful not to doub	ole count		(		1	The second second	abination ( )	in the set		
nshviðuale	-	0	D	0	na	If yes, report color con section on back of f				
fotal survey h	rs: 2.0					section on back of t	orm and repo	arto USP	ma.	
Reporting Indivi	Distance in the second se			Jeff Steinma		Date Report Complete			9/30/2014	

Reporting Individual	Jeff Steinman		Phone #	(415) 250-2692	l a com
Affiliation	Garcia and Associates		E-mail	jsteinman@garciaandass	ociate
Site Name	Topock AZ-3	Date report Co	mpleted	9/30/2014	
Was this site surveyed in a Did you verify that this site na if name is different, what nam	me is consistent with that used in previous yrs?	YesNo	<u>x</u>	Not Applicable	x
f site was surveyed last year,	did you survey the same general area this year?	Yes No		If no, summarize below	
Jid you survey the same gene	ral area during each visit to this site this year?	Ycs x No	_	If no, summarize below.	
Management Authority for Su	rvey Area: Federal <u>x</u> Municipal/Coun	ty State	-	TribalPrivale	
Name of Management Entity of	or Owner (e.g., Tonto National Forest)	Havasu V	ildlife Re	fuge	
Length of area surveyed:	208 meters dan	ŭ			
Vegetation Characteristics: C	heck (only one) category that best describes the predomina	ant tree/shrub foliar layer a	t this site:		
1 149 - Dide of data in contra contra					
Native bro	oadleaf plants (entirely or almost entirely, > 90% native)				
	oadleaf plants (entirely or almost entirely, > 90% native) tive and exotic plants (mostly native, 50 - 90% native)				
Mixed nat					
Mixed nat	tive and exotic plants (mostly native, 50 - 90% native)				
Mixed nat Mixed nat x Exotic/int	tive and exotic plants (mostly native, 50 - 90% native) tive and exotic plants (mostly exotic, 50 - 90% exotic)	me.			

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing 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. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features.\_\_Attach additional sheets if necessary\_\_\_\_\_

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)
		1				
	1				1	
				-		
				-		
				-		

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

USGS Quad	Topock A Name:	Topock			_	State: AZ	County: Elevation:		(meter	8)
Creek, River,			Colorado	Divor			nevauon.	145	uneter	91
					JUTET	sightings attached (as required)?	Yes	X	No	_
								_		T.
Survey Coord	dinates:	Start:	-	730908	N		Datum:	83		fructions)
		Stop:	E	730961	N	3845519 UTM	Zone:	11	C	
If	survey coor	dinates cl	hanged bet	ween visit	s, enter co	ordinates for each survey in commen	s section	on back	of this page.	
						information on back of this pa				
	T				Nest(s)	<u> </u>	0	_		
Survey # Observer(s) (Full Name)	Date (m/d/y) Survey Time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior, evidence of pairs or breeding-potential threats [livestock, cowbirds, Disrhabda spp.]]. If Disrhabda found, contact USFWS and State WIFL coordinator.	(this is an opt pairs, or grou	ional colum ps of birds	I'L Detections an for documenting found on Iditional sheets if r	
Survey #1	Date:						# Birds	Sex	UTM E	UTMN
Observer(s)	5/22/2014						in Dirus		C III I	C.I.M.I
J Steinman	5/22/2014 Start:								-	-
						Single male fitz-bew and whitt visual and auditory	-	-		-
	8:09	1	0	Ó	NA	detectionSingle male fitz-bew and whitt visual and	-	-	-	1
	Stop:					auditory detection				
	8:50	2					-	_	-	-
	Total hrs:	_								
	41min				-					1
Survey # 2	Date:						# Birds	Sex	UTME	UTM
Observen(\$)	6/4/2014	2							1	-
Steinman	Start:									
	5:52	0	σ	σ	NA					
	Stop:	N.			na					
	6:38	_								
	Total hrs:							1		
	46min						-	1		
Survey # 3	Date:						# Birds	Sex	UTME	UTM
Observer(s)	6/17/2014						in Bride		e mus	-
J Steinman	Start:						-			
	5:50						-	-	-	-
	Stop:	0	.0	Q	NA		-	-	-	
			1		1.0		-			-
	6:30 2/9/1900						-			-
	40min								-	
0				_	-			-		-
Survey #4	Date:						# Birds	Sex	UTM E	UTM
Observer(\$)	6/30/2014						-		-	-
Steinman	Start:									-
	7:50	0	-0	D	NA		-	1		
	Stop:									
	8:30									
	Total hrs:								P	
	40min		2	<u> </u>		1.0	1.4			12.5
Survey #5	Date:						# Birds	Sex	UTME	UTMI
(boerver(s)	7/17/2014	1								-
Steinman	Start:									
	8:37	0		ó			in an ing		-	10000
	Stop:	0	0	0	NA					
	9:19									
	Total hrs:									1
	42min		(				1			
Overall Site St	ummary		-	-	1		-		-	
'otals do not equal th	e sum of each	Total Adult	-	Total	Same.					
alumn Include only	ren dent a duitr	Residents	Total Pairs	Territories	Total Nests	Were any WIFLs color-banded?	Yes		No	
) o not include migrae ledglings	ats, nextlings, and		1 - C			the second second second second	103		- 15	
e careful not to doub	le count					i a secondaria de la composición de la			9. j	
nshvi duala		0	D	0	na	If yes, report color cor				
						section on back of f	orm and repo	at to USF	W.S.	
'otal survey h	rs: 3.5	and the second sec			A					

Reporting Individual	Jeff Steinman	Phone #	(415) 250-2692
Affiliation	Garcia and Associates	E-mail	isteinman@garciaandassociate
Site Name	Topock AZ-4	Date report Completed	9/30/2014
Was this site surveyed in a p Did you verify that this site nar if name is different, what name	ne is consistent with that used in previous yrs?	Yes No	Not Applicable
If site was surveyed last year, d	id you survey the same general area this year?	Yes No	If no, summarize below
Did you survey the same gener	al area during each visit to this site this year?	Yes No	If no, summarize below.
Management Authority for Sur Name of Management Entity o	vey Area: Federal <u>x</u> Municipal/Count r Owner (e.g., Tonto National Forest)	y State Havasu National Wildli	Tribal Private
Length of area surveyed:	564 meter(km		
Native brow Mixed nati Mixed nati x Exotic/intro	eck (only one) category that best describes the predomina adleaf plants (entirely or almost entirely, > 90% native) ve and exotic plants (mostly native, 50 - 90% native) ve and exotic plants (mostly exotic, 50 - 90% exotic) oduced plants (entirely or almost entirely, > 90% exotic) ee/shrub species in order of dominance. Use scientific nan		
and a second s			
	Tamarix spp.		

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing 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. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features.\_\_Attach additional sheets if necessary\_\_\_\_\_

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)
a		1				
		_				
			-	1		
				1		
				1		

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

Creeks, River, or Lako Name         Colorado River           Ls copy of USGS map marked with survey ore and WIFL sightings attacked (as required)?         Yes         No           Survey Coordinates         Start:         E         731000         N         3845574         UTM         Daitum:         83         (See information of the page)           Survey Coordinates         Start:         E         731118         N         3846528         UTM         Zone         11           Ursurvey coordinates         Start:         F         731118         N         3846528         UTM         Zone         11           Survey Coordinates         Starter of Manager (Starter of With Starter of Starter of WITM)         Survey (Starter of WITM)         Survey (Starer of WITM)         Survey (Starter of WITM) <th>USGS Quad</th> <th>Topock A Name:</th> <th>Topock</th> <th></th> <th></th> <th></th> <th>State: AZ</th> <th>County: Elevation:</th> <th></th> <th>(meter</th> <th>8)</th>	USGS Quad	Topock A Name:	Topock				State: AZ	County: Elevation:		(meter	8)
Lis copy of USCS may marked with survey are and WIPL sightings discabed (as required)?         Fes.         X         No         No         No         States (Control (	and the second			Colorado	River			creviacin.	110	(incies	.,
Sarvey Coordinates         Statt         F         73100         N         346574         UTM         Datum         83         Generation           If survey coordinates         constraints         constraints         min         346574         UTM         Datum         83         Generation           If survey coordinates         constraints         constraints         for constraints <t< th=""><th></th><th></th><th></th><th></th><th></th><th>d WIFL</th><th>violitinos attachad (as ramirad)?</th><th>Var</th><th>v</th><th>Na</th><th>_</th></t<>						d WIFL	violitinos attachad (as ramirad)?	Var	v	Na	_
Stop:         F.         231115         N         366232         UTM         Zone:         11           If survey coordinates changed between twists, enter coordinates for such survey in comments social on on back of this page.         **         **         **         11         2010:         11           Survey if Observed/ Observed/ Observed/ Observed/ December         Date:         Number of Number of Num of Number of Number of Number of Num of Number of Num of Number	1	C									-
If survey coordinates is langed between visits, entre coordinates for each survey in additional size is information on back of this page.       Note: is information on back of this page.         Survey if all bet: (019)       Note: is information on back of this page.       Note: is information on back of this page.       Note: is information on back of this page.         Survey if all bet: is information on back of this page.       Note: is information on back of this page.       Note: is information on back of this page.       Note: is information on back of this page.         Survey if all bet: is information on back of this page.       Note: is information on back of this page.       Note: is information on back of this page.         Survey if all bet: is information on back of this page.       Note: is information on back of this page.       Note: is information on back of this page.         Survey if all bet: information on back of this page.       Note: is information on back of this page.       Note: is information on back of this page.         Survey if all bet: information on back of this page.       Note: is information on back of this page.       Note: is information on back of this page.         Survey if all bet: information on back of this page.       Note: is information on back of this page.       Note: is information on back of this page.         Survey if all bet: information on back of this page.       Note: is information on back of this page.       Note: is information on back of this page.         Survey if all bet: information on back of this page.	Survey Coord	innates.				- C		and the second second			ructions)
**Fill in additional site information on back of this page **           Survey # Offerenced Offerenced Offerenced Offerenced Offerenced Offerenced Survey #1         Number of Number of Disis         Site Survey Prior Prior         Site Survey Disis         Comment Survey Prior Prior         Comment Survey Prior Prior         Comment Survey Prior Prior         Comment Survey Prior Prior         Comment Survey Prior Prior         Comment Survey Prior Prior         Comment Survey Prior Prior         Survey Prior Prior Prior         Survey Prior Prior Prior         Survey Prior Prior Prior Prior         Survey Prior Prior Prior Prior         Survey Prior Prior Prior Prior Prior Prior         Survey Prior Pri											
Survey # Outcometer (e.g., bid behavior, evidence of pairs of OutCometer (e.g., bid behavior, evidence of pairs of OutCometer (e.g., bid behavior, evidence of pairs of Commeter (e.g., bid Commeter (e.g.,	If	survey coor	dinates c						on back	t of this page.	
Survey #1 Outwords     Date (wide) (wide Name)     Number of Markey (Wide Name)     Desinate Markey (Wide Name)     Desinate Markey (Wide Name)     Desinate Markey (Wide Name)     Desinate Markey (Wide Name)     Survey #1 (Wide Name)     Outset (Wide Name)     Outset (Wide Name)     Outset (Wide Name)     Outset (Wide Name)     Outset (Wide Name)     Wide Name     Outset (Wide Name)     Wide Name				**Full L	n additio	nal site	information on back of this pa	ige**			
Statistics (Statistics)         Statistics)         Statiss         Statistics)         Statiss	Observer(s)		Adult	Number of	Number of	Found? Y or N If Yes, number of	breeding, potential threats [livestock, cowbirds, Diorhabda spp.]). If Diorhabda found, contact	(this is an opt pairs, or grou	ional colu ps of birds	nn for documenting found on	
3 fatimum       Stat:       0       0       0       NA       Gean Blue Heres Netre       Image: Constraint of the Heres Netre	Survey #1	Date:		1				# Birds	Sex	UTM E	UTMN
5.42         0         0         0         NA         Gene Bits Heres Netry         1         1         1           min         117min         -         <	Observer(s)	5/22/2014							-		1
Stop:         0         0         0         0         NA         Stead Bile Here Netts         1 <th1< th="">         1<td>Steinman</td><td>Start:</td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td></th1<>	Steinman	Start:						-			
Stor: B:09 Fred has         Stor: B:09 B:00 Starter         Stor: B:00 B:00 B:00 B:00 B:00 B:00 B:00 B:		5:42	à		é		Chart Blue Hours Made			· · · · ·	
India         Total Information         Total Information         Information <thinformation< th=""></thinformation<>		Stop:	0	0	6	NA	Great Blue Heron Nests				
min.     147wai     out     out     out     out     out     out     out       Storey 72     04201     04201     44201     44201     0<		8:09						1	1		
Starvey #2         Date: 64(2014) Steinman         Mathematical Starvey #3         Start: 6.39         Sec 1         0         0         NA         Yellow Watter at Creat Blue Been Note:         # Birds         Sec         UTM E         U           min.         128/min         1         0         0         NA         Yellow Watter at Creat Blue Been Note:		Total hrs:									
Otherwite         6442014 (5.39)         442014 (5.39)         4         9         9         NA         Yellow Wather at Gree Bloe Boron News         1         1         1           12 Grinman         8:47 Total Inc.         1         0	min.	147min							1		1
Start:       6.3.9 6.3.9 (1)       1       0       0       NA       Yellew Wattler at Green Blue Baron Notes       1	Survey # 2	Date:				1		# Birds	Sex	UTME	UTM
6:39 Stop: min.         1         9         9         NA         Yeileee Wathler at Great Blue Heron Notes		6/4/2014	6								
Stop:         1         0         0         NA         Values Wander at Grad Blob Errors Nets           min.         1280ain         1         0         0         NA         Values Wander at Grad Blob Errors Nets           Strop:         1280ain         1         0         0         0         1         1         0         0         0           Strop:         172014         4         Birds         2         1         0         0         0         0         NA         4         Birds         2         1         0 <td>) Steinman</td> <td>and the second se</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	) Steinman	and the second se									
Stop:         8.47         Image: Stop:         Image: Stop: <t< td=""><td></td><td></td><td>1</td><td>σ</td><td>Ø</td><td>NA</td><td>Vellow Warbler at Great Blue Heron Nests</td><td></td><td></td><td></td><td></td></t<>			1	σ	Ø	NA	Vellow Warbler at Great Blue Heron Nests				
Tetal hrs:         Tetal hrs:         Image: Constraint of the section		and the second second						1.			
min.         128min         min.         128min         min.         128min         min.         128min         min.											
Survey # 3 Otherwit// 1 Steinman         Date: 0 (17/2014) Start: 	14	1 million 1							-	1	
Overse(1)         6/17/2014 Nata:         0         0         0         0         NA         Image: Constraint of the second o			2	1							
Start:         6:30         0         0         0         0         NA           Stop:         9:50			-		-			# Birds	Sex	UTME	UTMN
6:30 Stop: 9:50 Tetal line: 200min     0     0     0     NA     Image: Constraint of the state of t								1			1
Stop:     0     0     0     0     NA       Total brs:     200min     -     -     -       Sturvey #4     Date:     -     -     -       5200min     630/2014     -     -     -       53tart:     -     -     -     -       51art:     -     -     -     -       7:50     -     0     0     NA     -       Start:     -     -     -     -       129min     -     -     -     -       Start:     -     -     -     -       129min     -     -     -     -       Start:     -     -     -     -       129min     -     -     -     -       129min     -     -     -     -       129min     -     -     -     -	Steinman	and the second						-			_
9:50 Tetal huse: 200min         9:60 Tetal huse: 200min         9:60 Tetal huse: 200min         0			0	.0	Ó	NA				1	
Total hrs:         200min         Image: Construct of the construction on back of the construction of the construction of the construction on back of the construction on back of the construction of the constructio					1 A A					-	-
200min         Image: Construction of the construction								1			-
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00clerver(i)       63002014         15 Start:       0       0       0       NA         Start:       129min       1       1       1         Start:       129min       1       1       1       1         Start:       129min       0       0       NA       # Birds       Sex       UTME       U         Start:       129min       0       0       NA       # Birds       Sex       UTME       U         Start:       13min       0       0       NA       Image: Control in the c			-	-						-	-
Start:       5:41       0       0       0       0       NA         Stop:       7:50       0       0       0       NA       1		the second second						# Birds	Sex	UTME	UTMN
5:41     0     0     NA       Stop: 7:50     7:50     129min       Total hrs: 129min     129min     4       Starvey # 5     Date: 7:33     4       5:40     0     0       Stop: 7:33     0     0       Total hrs: 113min     1       113min     1       Overall Site Summary 113min     Total Addit Residents     Total Pairs       Total or segal the sum of such colume. Individuals     Total Pairs     Total Nester       Total survey Hrs:     120     0     0								-		-	-
Stop:     0     0     0     NA       7:50     Total brs:     129min     1       129min     129min     1       Starvey # 5     Date:     7/17/2014       7:50     7/17/2014     #Birds Sex       Starvey # 5     0     0       Stop:     7/17/2014       Stop:     0     0       7:33     Total hrs:       113min     Total Addit       Residents     Total Pairs       Total Neter     Total Neter       Were any WIFLs color-banded?     Yes       No     0     0       native days     113min	Stehnan	and the second se						-		-	
7:50 Total hrs: 129min     129min     1     1     1     1       Survey # 5 Observe(c)     Date: 7/17/2014 Start: 55:40     4     Birds     Sex     UTM E     U       Start: 5:40     0     0     NA     #Birds     Sex     UTM E     U       Start: 5:40     0     0     NA     1     1     1     1       Start: 77:33 Total hrs: 113min     0     0     NA     1     1     1     1       Overall Site Summary Total do not equal the num of each column. Instruct out of out be double count: maker.dauke     Total Pairs     Total Nests     Were any WIFLs color-banded?     Yes     No       Total survey Irrs:     12.0     0     0     na     If yes, report color combination(s) in the comments section on back of form and report to USFWS.			0	-0	D	NA				-	
Total hrs:     129min     Image: Construction of the start duty of the comments section on back of form and report to USFWS.       Survey # 5     Date:     0     0     NA       Start:     7/17/2014     # Birds     Sex.     UTM E     U       Observer(s)     7/17/2014     0     0     NA     # Birds     Sex.     UTM E     U       Start:     5:40     0     0     NA     Image: Construction on back of form and report to USFWS.     Image: Construction on back of form and report to USFWS.		and the st		1 A.				-		-	-
129min     129min     120min     120min <td></td> <td></td> <td></td> <td></td> <td></td> <td>11.00</td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td>						11.00		-	-		
Survey # 5       Date:       7/17/2014         Observe(i)       7/17/2014         Stati:       5:40         Stop:       0         7:33       0         Total hrs:       1:3min         1:3min       Total Pairs         Total Nests:       Total Pairs         Total Adult       Total Pairs         Be careful not to double touts:       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         0       0         1:4       1:4         1:4       1:4         1:5:4       1:4         1:1:5:4       1:5:4         1:1:5:4       1:5:4         1:1:5:5:5:5:5:5:5:5:5:5:5:5:5:5:5:5:5:5					-	1.2.2.1			-		1
Observe(s)       747/2014         1 Steinman       Start:         5:40       0         Stop:       7:33         Total hrs:       113min         113min       Total Pairs         Total Nester       Total Adult         Doverall Site Summary       Total Adult         Total Site Summary       Total Adult         Down in Subsection to south second research adult.       Total Pairs         Be careful to is double south       0         0       0         0       0         0       0         0       0         0       0         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1         1       1 <td>Survey #5</td> <td></td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td># Birds</td> <td>Sex</td> <td>UTME</td> <td>UTME</td>	Survey #5			-	-	-		# Birds	Sex	UTME	UTME
Start:       5:40       0       0       0       NA         Stop:       7:33       Total hrs:       113min       1		for the second								1	1
Stop:     0     0     0     NA       7:33     Total hrs:     113min     113min       Overall Site Summary     113min     Total Adult       Coverall Site Summary     Total Adult     Total Pairs       Total of to double count     Total Adult     Total Pairs       Residents     Total Pairs     Total Nests       Were any WIFLs color-banded?     Yes       No     0     0       na     If yes, report color combination(s) in the comments section on back of form and report to USFWS.			1								
Stop:     0     0     0     NA       7:33     Total hrs:     113min     113min       Overall Site Summary     113min     Total Adult       Coverall Site Summary     Total Adult     Total Pairs       Total of to double count     Total Adult     Total Pairs       Residents     Total Pairs     Total Nests       Were any WIFLs color-banded?     Yes       No     0     0       na     If yes, report color combination(s) in the comments section on back of form and report to USFWS.		5:40		2	é			1.			
Total hrs:     L13min       Overall Site Summary     Total Adult       Total on seguid the sum of each of yene deta tabuty     Total Adult       Periodens. Include only renders tabuty     Total Adult       Previdens.     Total Pairs       Total Nests     Total Nests       Be careful no tota double counts     If yes, report color combination(s) in the comments       ndvidual     0     0       Total survey hrs:     12.0		Stop:	â.	0	ų	NG.					
Total hrs:     L13min       Overall Site Summary     Total Adult       Total on seguid the sum of each of yene deta tabuty     Total Adult       Periodens. Include only renders tabuty     Total Adult       Previdens.     Total Pairs       Total Nests     Total Nests       Be careful no tota double counts     If yes, report color combination(s) in the comments       ndvidual     0     0       Total survey hrs:     12.0		7:33									
Overall Site Summary Totals do not equal the sum of each column. Include only reacher a dult. Do not include migrant, nertingers, and designate in a construction migrant, nertingers, and designate in a construction migrant, nertingers, report color combination(s) in the comments section on back of form and report to USFWS.		Total hrs:									
Total do not equal the runn of each volume. Instance do yrea dowine a utility of each with the rest of the re		and the second sec		(	1				1		
Column. Include only readents adult.     Residents     Total Pairs     Territories     Total Nests       On or indude migrant. nerlings, and leadings     Residents     Total Pairs     Territories     Total Nests       Se cardial not to double count:     0     0     0     na       If yes, report color combination(s) in the comments     section on back of form and report to USFWS.			1 i								
Total survey hrs:     12.0				Total Pairs		Total Nests	and and and the second			200	
Be carful not to double count unividuals 0 0 0 na If yes, report color combination(s) in the comments section on back of form and report to USFWS.			Residents	and a second	Territories	Card Could	Were any WIFLs color-banded	Yes		No	
ndwidedade 0 0 0 net international in the comments section on back of form and report to USFWS.		In count	-	-	-			S. 54	-		
Total survey hrs: 12.0 section on back of form and report to USFWS.		re count	0	p	n	na.					
	Fotal survey h	12.0				Ha	section on back of t	form and repo	ort to USI	FWS.	
Reporting Individual: Jeff Steinman Date Report Completed: 9/30/2014		divide			Jeff Steinma	0	Date Report Complete	wh-		0/20/2014	

Reporting Individual	Jeff Steinman		Phone #	(415) 250-2692
Affiliation	Garcia and Associates		E-mail	isteinman@garciaandassociates
Site Name	Topock AZ-5	1.0	Date report Completed	9/30/2014
and the second	consistent with that used in previous yrs?	XYes	No <u>x</u>	Not Applicable
If name is different, what name(s) v			1.647	A conserve week for the
	on survey the same general area this year?	Yes	No	If no, summarize below.
.hd you survey the same general ar	ea during each visit to this site this year?	Yes	No x	If no, summarize below.
Management Authority for Survey.	Area: Federal x Municip	oal/County	State	Tribal Private
Name of Management Entity or Ow	mer (e.g., Tonto National Forest)		Havasu National Wildli	fe Refuge
Length of area surveyed:	879 meters	(km)	A	
	(only one) category that best describes the pr of plants (entirely or almost entirely, > 90% n		surub foliar layer at mis sue.	
	nd exotic plants (mostly native, 50 - 90% nati			
	ad exotic plants (mostly exotic, 50 - 90% exo			
	ed plants (entirely or almost entirely, >90%			
dentify the 2-3 predominant tree/sh	mb species in order of dominance. Use scier	tific name.		
menting me - a presentation neers				
activity the e-spectral matter account	Tamar	ix spp.		

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing 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. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features.

Attach additional sheets if necessary

The first survey round was only of the east side of the habitat point 1-20 on map. The subsequent surveys were of points AZ5-1 to AZ5-52

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

Territory Number	All Dates Defected	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)
		1				
_		_				
		_				
-						-
				1		

Site Name:	Topock C		lountain			State: CA	Elevation:		ernardino	10
USGS Quad				D.C.	_		Elevation:	134	(meter	s)
Creek, River,			Colorado							_
		-				sightings attached (as required)?	Yes	X	No	1.1
Survey Coord	dinates:	Start:	-	728449	N		Datum:	8.	3 (See ins	tructions)
		Stop:	E	728081	N	3845821 UTM	Zone:	1	1	
11	survey coor	rdinates c				ordinates for each survey in commen		on back	of this page.	
			**Fill i	n additio	nal site	information on back of this pa	ige**			
Survey # Observer(s) (Full Name)	Date (m/d/y) Survey Time	Number of Aduli WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of	Comments (e.g., bird behavior; evidence of pairs or breeding-potential fluents [livestock, cowbirds, Diorhabda spp.]]. If Diorhabda found, contact USPWS and State WIFL coordinator.	(this is an opt pairs, or grou	ional colur ps of birds	IFL Detections an for documenting found on dditional sheets if r	
	1000	-		· · · · · · · · · · · · · · · · · · ·	nests					
Survey #1	Date:		1				# Birds	Sex	UTM E	UTMN
Observer(s)	5/23/2014									1
Steinman	Start:						the second			
	7:26			ó					1	
	Stop:	0	0	0	NA					
	7:47						1			
	Total hrs:									
	21min	-	-						· · · · · · · · · · · · · · · · · · ·	1
Survey # 2	Date:				-		# Birds	Sex	UTME	UTM
Observen(s) Steinman	6/6/2014	2					-		-	-
Steinman	Start:						-	-		-
	8:02	0	0	Ø	NA		-	-		
	Stop: 8:24			1.0			-	-		-
	O.24 Total hrs:						-	-	-	
	22min						-			-
Survey # 3	Date:	-					# Birds	Sex	UTME	UTMN
Obaerwer(s)	6/19/2014									
Steinman	Start:						-		1	
	9:07	0	0		NTA		1		1	
	Stop:			Q	NA					
	9:33					-	-			
	Total hrs:						1			
	26,0		_		-				1	
Survey # 4	Date:						# Birds	Sex	UTME	UTMN
Observer(\$)	Start:						-		-	
	otart.	1.4					-			
	Stop:	0	-0	D	NA	Survey Area Eliminated	-	-		
	1.1									
	Total hrs:							1	· · · · · · · · · · · · · · · · · · ·	-
		-	-	h1	1	1	-			1
Survey # 5	Dale:						# Birds	Sex	UTM E	UTMN
(bserver(s)	-									
	Start:				1.000		-		1	
	Stop:	0	0	0	NA	Survey Area Eliminated	-			
	comp.									
	Total hrs:						1			
	Could be		-				1			
Overall Site St		i, and i			(IC. TH					
'otals do not equal th olumn. Include only		Total Adult	Total Pairs	Total	Total Nests	and 1 and 10 and 10			200	
	nts, nextlings, and	Residents	a contraction	Territories	Lange Conde	Were any WIFLs color-banded	? Yes		No	
	de count	-	-	-	-		Sec. 23	-		÷
ledglings					1.00	If yes, report color co	mbination(s)	in the cor	aments	
	are contra	0	0	0	na			the second second		
edglings e cærful not to doub	-	0	0	0	na	section on back of		ort to USE		

Reporting Individual		Jeff Steinman		4	Phone #	(41	5) 250-2692
Affiliation	Garcia a	nd Associates			E-mail	isteinman@	garciaandassociates
Site Name	Topock CA-1			Date report Co	mpleted		0/30/2014
and a fight of the state of the	aprevious year? Yes x N ame is consistent with that used i	No Unknown in previous yrs?	Yes	x No		Not	Applicable
If name is different, what nam	ie(s) was used in the past?	<u></u>					
If site was surveyed last year,	did you survey the same general	l area this year?	Yes	No	x	If no, summar	ize below.
Did you survey the same gene	eral area during each visit to this	site this year?	Yes	x No	_	If no, summar	ize below.
Management Authority for St	urvey Area: Federal	Municip	al/County	x State		Tribal	Privale
Name of Management Entity	or Owner (e.g., Tonto National I	Forest)		Moabi Re	egional I	Park	
Length of area surveyed:	382 meters		(km)				
Vegetation Characteristics: C	Theck (only one) category that be	est describes the pre	dominant tree/	shrub foliar layer at	this site		
Native br	oadleaf plants (entirely or almost	t entirely, > 90% ns	itive)				
Mixed na	tive and exotic plants (mostly na	ttive, 50 - 90% nati	ve)				
Mixed na	tive and exotic plants (mostly ex	otic, 50 - 90% exol	ic)				
x Exotic/int	troduced plants (entirely or almo	st entirely, > 90% e	exotic)				
Identify the 2-3 predominant	tree/shrub species in order of dor	minance. Use scien	tific name.				
	C	Cercidium microphy	lum, Tamarix s	pp.			
Average height of canopy (De	o not include a range):		4		meters)		
and a second second second	and the second states of			,			

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections;

2) sketch or aerial photo showing 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. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features.

Attach additional sheets if necessary.

The area has had 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	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)
-		-				
		-				

USGS Quad	Topock C		Iountain			State: CA	Elevation:		ernardino (meter	(a
Creek, River.			Colorado	Divor			Lievaden.	110	(incite)	
					JUTEL	sightings attached (as required)?	Yes	X	No	_
							1000 and 4			Teres and
Survey Coord	dinates:	Start:		728507	N		Datum:	8.		inictions)
		Stop:		728921	N	And the second se	Zone:	1		
If	survey coor	dinates c	hanged bei	ween visits	s, enter co	ordinates for each survey in commen	its section	on back	of this page.	
			**Fill i	n additio	nal site	information on back of this pa	ige**			
	1				Nest(s)		1	_		
P	Sec. 11	mark of	estimate.	Estimated	Found?	Comments (e.g., bird behavior, evidence of pairs or	GPS Coordin	ates for W	II'L Detections	
Survey # Observer(s)	Date (m/d/y)	Number of Adult	Estimated Number of	Number of	YorN	breeding;-potential threats [livestock, cowbirds,			an for documenting	individuals.
(Full Name)	Survey Time	WIFL	Pairs	Territories	If Yes,	Diorhabda spp.]). If Diorhabda found, contact USFWS and State WIFL coordinator.	pairs, or grou			
	a second a	1			number of	USP wis and state wifel, coordinator.	each survey).	include a	dditional sheets if r	decessary.
Survey #1	Date:				nests		# Divide	C.o.	1 205 4 12	UTMN
							# Birds	Sex	UTM E	UIMA
Observer(s) Steimnan	5/23/2014	·					-	-	-	
oteninais	Start:						-	-	-	-
	6:03	Ö	0	Ó	NA	BHCO	-	-		-
	Stop:						-			
	6:39 Tatal has	2					-	-	-	-
	Total hrs:						-		-	
the mark of the	36min	-			-					
Survey #2	Date:				-		# Birds	Sex	UTME	UTMN
Observer(s)	6/6/2014	2					-			
Steinman	Start:									
	5:20	0	σ	0	NA		1	1		
	Stop:						1.00	-		
	6:05									
	Total hrs:									
	45min									1
Survey # 3	Date:	-					# Birds	Sex	UTME	UTMN
Observer(s)	6/19/2014						-			
J Steinman	Start:						-			
	7:25	0	.0	0	NA				· · · · · · · · · · · · · · · · · · ·	
	Stop:	Ŷ.	.9	Q.	P.G.					
	7:45					~				
	Total hrs:					<		1		
	20min		_						1	
Survey #4	Date:						# Birds	Sex	UTME	UTMN
Observer(s)	7/1/2014						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			11
Steinman	Start:						1		-	1
	5:23	1.5						0	1	
	Stop:	0	-0	D	NA				1	
	6:00							1	1	
	Total hrs:						1	1 1	· · · · · · · · · · · · · · · · · · ·	-
	37min					1				
Survey #5	Date:						# Birds	Sex	UTME	UTMN
(bserver(s)	7/15/2014	1							1	
Steinman	Start:									
	5:35	1.0	5		- 22				· · · · · ·	
	Stop:	0	0	Q	NA				1.0	
	5:58								1	
	Total hrs:						1			
	23min					1				1
Overall Site St	ummarv	-		-	1.			_		
'otals do not equal th		Total Adult	and some	Total	Gand					
olumn Include only	rendent a dultr	Residents	Total Pairs	Territories	Total Nests	Were any WIFLs color-banded	Yes		No	
Do not include migræ ledglings	ats, nextlings, and					a constant particular	. 63			
e careful not to doub	ole count		( T. 1		1.5.21	1	a hind and a	in the second		
nshvi duala		0	D	0	na	If yes, report color con section on back of f				
fotal survey h	rs: 2.7					section on back of I	com anu repo	arto cos	and a	
	dual:			Jeff Steinma		Date Report Complete			9/30/2014	

Reporting Individual	Jeff Stei	nman	Phone #	(415) 250-2692
Affiliation	Garcia and Assoc	lates	E-mail	isteinman@garciaandassociates
Site Name	Topock CA-2		Date report Completed	9/30/2014
Did you verify that this site name	e is consistent with that used in previous	nknown yrs? Yes	x No	Not Applicable
f name is different, what name(s	s) was used in the past? d you survey the same general area this y	vear? Yes	No X	If no, summarize below.
	I area during each visit to this site this ye			If no, summarize below.
Management Authority for Surv	rey Area: Federal	Municipal/County	xState	Tribal Privale
Name of Management Entity or	Owner (e.g., Tonto National Forest)		Moabi Regional	Park
Length of area surveyed:	609.0	<u>(km)</u>		
Vegetation Characteristics: Che	eck (only one) category that best describe	s the predominant tree/	shrub foliar layer at this site	6
Native broad	dleaf plants (entirely or almost entirely,	> 90% native)		
Mixed nativ	e and exotic plants (mostly native, 50 - 9	00% native)		
	e and exotic plants (mostly native, 50 - 9 e and exotic plants (mostly exotic, 50 - 9			
Mixed nativ		00% exotic)		
Mixed nativo	e and exotic plants (mostly exotic, 50 - 9	00% exotic) > 90% exotic)		

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections;

2) sketch or aerial photo showing 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. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features.

Attach additional sheets if necessary

Pirates cove has incroached and eliminated the habitat on the north side, cut a trail through the middle of the habitat and cleared a portion on the west. See photos in report.

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)
		1		+		

USGS Quad	Topock C		Iountain		_	State: CA	Elevation:		ernardino (meter	(a
Creek, River.			Colorado	Divor			Lievadon.	134	interes	91
					JUTET	debelan attack adda and a 19	V····	v	M-	_
						sightings attached (as required)?	Yes	X	No	S
Survey Coor	dinates:	Start:		729285	- N		Datum:	8.		inictions)
		Stop:		729038	N	And the second se	Zone:	1		
1f	survey coor	dinates c	hanged be	tween visits	s, enter co	ordinates for each survey in commen	its section	on back	of this page.	
			**Fill i	n additio	nal site	information on back of this pa	ige**			
	1			-	Nest(s)		Ĩ.			
	A			ana mana	Found?	Comments (e.g., bird behavior, evidence of pairs or	GPS Coordin	ates for W	II'L 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 opt		an for documenting	individuals.
(Full Name)	Survey Time	WIFL	Pairs	Territories	If Yes,	Diorhabda spp.]). If Diorhabda found, contact USFWS and State WIFL coordinator.	pairs, or grou			
	a second as	1 m			number of	USP wis and state wifel, coordinator.	cach survey).	include a	dditional sheets if r	deessary.
Pagastana de 3	Date:				nests		# Birds	C.o.	1 275 4 72	Treeses
Survey #1							# Dilus	Sex	UTM E	UTM N
Steinman	5/23/2014 Start:	·					-	-	-	
Stemmas							-	-	-	-
	6:39	Ö	0	Ó	NA		-	-		-
	Stop:						-			-
	7:17 Total hrs:						-	_	-	-
							-			-
Alexander of the	38min	-	-	-	-					
Survey #2	Date:				-		# Birds	Sex	UTME	UTMN
Diverven(s)	6/6/2014	2					-			
Steinman	Start:							-		
	6:06	10	0	σ	NA		1			
	Stop:							-		
	6:36									
	Total hrs:									
-	30min	1								1
Survey #3	Date:	-		-			# Birds	Sex	UTME	UTM N
Observer(s)	6/19/2014						-			
J Steinman	Start:						-	, d		
	7:45	o	0	0	NA				· · · · · · · · · · · · · · · · · · ·	
	Stop:	Ŷ.		Q.	P.G.					
	8:39					~				
	Total hrs:					<				
	54min	(							1	
Survey #4	Date:						# Birds	Sex	UTME	UTMN
Observer(s)	7/1/2014						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			11
Steinman	Start:	·					1		-	1
	6:00	150					-		-	
	Stop:	0	-0	D	NA				1	
	6:29							1	1	
	Total hrs:						1		· · · · · · · · · · · · · · · · · · ·	1
	29min			-	12.24	1				
Survey #5	Date:						# Birds	Sex	UTM E	UTMN
bserver(s)	7/15/2014	· · · · · ·								
Steinman	Start:									
	5:58	2	5		- 22				· · · · · ·	
	Stop:	Ó.	0	0	NA				1.0	
	6:30							-	1	
	Total hrs:						1			
	32min					1	1			
Overall Site St	unmary	-	-	-	1.			-	-	
"otals do not equal th	e sum of each	Total Adult	mater	Total						
olumn Include only		Residents	Total Pairs	Territories	Total Nests	Were any WIFLs color-banded	Yes		No	
Do not include migra ledglings	ais, ne mingt, and									
e careful not to doub	ole count				1.1.1	If yes, report color co	mbination	in the are	annuard a	
nshviðuals Datal	1	0	0	0	na	if yes, report color col section on back of f				
fotal survey h						section on back of 1	and and rep			
	dual:			Jeff Steinma		Date Report Complete	- de		9/30/2014	

Reporting Individu	al Jeff Steinman	Phone #	(415) 250-2692
Affiliation	Garcia and Associates	E-mail	isteinman@garciaandassociates
Site Name	Topock CA-3	Date report Completed	9/30/2014
	red in a previous year? Yes X No Unknown is site name is consistent with that used in previous yrs? Ye	es X No	Not Applicable
If name is different, v	that name(s) was used in the past?		
If site was surveyed h	ast year, did you survey the same general area this year? Year?	es X No	If no, summarize below.
Did yon survey the sa	me general area during each visit to this site this year? Ye	cs X No	If no, summarize below.
Management Authori	ty for Survey Area: Federal X Municipal/County	State	Tribal Privale
Name of Managemen	t Entity or Owner (e.g., Tonto National Forest)	BLM	1.00 million (1.00 million (1.
Length of area survey	ed: 152 meters (km)		
Vegetation Character	stics: Check (only one) category that best describes the predominant	tree/shrub foliar laver at this site	
	ative broadleaf plants (entirely or almost entirely, > 90% native)		
N	lixed native and exotic plants (mostly native, 50 - 90% native)		
x N	tixed native and exotic plants (mostly exotic, 50 - 90% exotic)		
E	xotic/introduced plants (entirely or almost entirely, > 90% exotic)		
Identify the 2-3 predo	minant tree/shrub species in order of dominance. Use scientific name	le.	
	Acaci gregii. Tamarix sp	pp.	
Augment hought of an	topy (Do not include a range): 4	(meters)	
Average neight of car	topy (no not menue a range).	(incleas)	

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing 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. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features.\_\_Attach additional sheets if necessary\_\_\_\_\_

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)
		1				
	1				1	
				-		
				-		
				-		

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

Site Name: USGS Quad	Topock C Name:		Iountain			State: CA	Elevation:		ernardino (meter	s)
Creek, River,			Colorado	Divor			crevaden.	191	unteres	
					dWIFT	sightings attached (as required)?	Yes	X	No	_
							C100			in the second
Survey Coord	dimates.	Start:		729537	- N		Datum:	8.		mictions)
		Stop:		729384	N	And the second se	Zone:	1		
If	survey coor	rdinates cl	hanged be	tween visits	s, enter co	ordinates for each survey in commen	ts section	on back	of this page.	
			**Full	n additio	nal site	information on back of this pa	ige**			
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 USPWS and State WIFL coordinator.	(this is an opt pairs, or grou	ional colur ps of birds	IPL Detections an for documenting found on Idational sheets if r	
Survey #1	Date:		1	1	1.0		# Birds	Sex	UTM E	UTMN
Observer(s)	5/20/2014									1
Steinman	Start:						-		-	
	5:37	2	0	0	NA	two SWFL respond fitz-bew and whitt visual and				
	Stop:	1				auditory detection.		-	-	
	6:46	2.1					-			
	Total hrs:	-					-		_	
Survey # 2	69min Date:	-	-	-	-		di Dianta	0	Little a re-	
Survey # 2 Observen(s)	and the second second						# Birds	Sex	UTM E	UTMN
Steinman	6/5/2014 Start:	1					-	unk		1
	5:15					Long to the long			-	
	Stop:	0	0	Ø	NA	BHCO observed		-	-	
	7:15				-		1		1	
	Total hrs:								1	
	120min									
Survey # 3	Date:	-		à	1		# Birds	Sex	UTME	UTM N
Observer(s)	6/18/2014						-		1	1
J Steinman	Start:						10000		-	-
	5:34	0	.0	-0	NA					
	Stop:			1.1			-			-
	6:24 Total hrs:				1.4		-	-		-
	50min								-	
Survey #4	Date:	-	-				# Birds	Sex	UTME	UTMN
Observen(\$)	7/1/2014						in Bride	w one	Star	C.D.I.
Steinman	Start:						1		-	
	7:28	0		ñ	374		1			-
	Stop:	U.	-0	D	NA				1	
	8:30									
	Total hrs:	· · · · · ·								
	62min	-	-	-	-		4.00			
Survey # 5	Date:						# Birds	Sex	UTM E	UTMN
(bserver(s)) Steinman	7/15/2014 Start:	1					-	-		-
	8:22	2	- C		1.00	Sin .	-		-	
	Stop:	0	0	Ó	NA	внсо		-		
	9:04									
	Total hrs:									1
	42min		(					1		
Overall Site St		1 i			i.c.m					
"otals do not equal th olumn. Include only		Total Adult	Total Pairs	Total	Total Nests	and 1 and 10 and 10			200	
lo not include migrae		Residents		Territories		Were any WIFLs color-banded	Yes		No	
lédglings le careful not lo doub	ole count	-	-	-	-		1. ar 73	-		•
nshvi duala		0	0	O	na	If yes, report color co				
	TS: 5.8					section on back of t	orm and repo	ort to USE	WS.	
'otal survey h	IS: 3.6				1					

Reporting Individual	Jeff Steinman		Phone #	(415) 250-2692
Affiliation	Garcia and Associates		E-mail	isteinman@garciaandassociates
Site Name	Topock CA-4	2	Date report Completed	9/30/2014
Was this site surveyed in a p Did you verify that this site nam f name is different, what name	ne is consistent with that used in previous yrs?	Yes x	No	Not Applicable
	id you survey the same general area this year?	Yes	No x	If no, summarize below.
	al area during each visit to this site this year?	Yes X	-	If no, summarize below.
Management Authority for Surv	vey Area: Federal <u>x</u> Municipal/C	County	State	TribalPrivale
Name of Management Entity or	r Owner (e.g., Tonto National Forest)		BLM	
Length of area surveyed:	249 meters	(km)		
Vegetation Characteristics: Ch	teck (only one) category that best describes the predor	minant tree/sl	inib foliar layer at this site:	
Native broa	adleaf plants (entirely or almost entirely, > 90% native	e)		
	adleaf plants (entirely or almost entirely, > 90% native ve and exotic plants (mostly native, 50 - 90% native)			
Mixed nativ				
Mixed nativ x Mixed nativ	ve and exotic plants (mostly native, 50 - 90% native)			
Mixed nativ x Mixed nativ Exotic/intro	ve and exotic plants (mostly native, 50 - 90% native) ve and exotic plants (mostly exotic, 50 - 90% exotic)	tic)		
Mixed nativ x Mixed nativ Exotic/intro	ve and exotic plants (mostly native, 50 - 90% native) ve and exotic plants (mostly exotic, 50 - 90% exotic) oduced plants (entirely or almost entirely, > 90% exot	tic) 2 name.		

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing 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. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features.

Attach additional sheets if necessary.

The site was expanded to inlcude several points around the east sided of the bat cave wash route 66 bridge. This areas has improved over the years.

# 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)
			+			

USGS Quad	Topock C		Iountain			State: CA	Elevation:		ernardino (meter	(z
Creek, River.				Divor			Sievauon.	134	Interes	01
			Colorado		JUTET	and the second s	Van	v	Al-	_
1						sightings attached (as required)?	Yes	X	No	Trans.
Survey Coor	dinates:	Start:		729889	- N		Datum:	8		tructions)
		Stop:		730025	N	And the second se	Zone:	1		
1f	survey coor	rdinates c	hanged bet	ween visits	s, enter co	ordinates for each survey in commen	ts section	on bacl	t of this page.	
			**Fill i	n additio	nal site	information on back of this pa	ge**			
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 Y es, 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 opt pairs, or grou	ional colu ps of birds	IFL Detections nm for documenting found on dditional sheets if r	
Survey #1	Date:		-		and the		# Birds	Sex	UTM E	UTMN
Observer(s)	5/20/2014									1
J Steimnan	Start:						1 in 1		-	
	6:51									
	Stop:	0	0	0	NA		-			
	7:39						1			
	Total hrs:									
	48min	-	-						· · · · · · · · · · · · · · · · · · ·	1
Survey #2	Date:				1		# Birds	Sex	UTM E	UTM
Observer(s)	6/5/2014	1								-
J Steinman	Start:									
	7:22	0	σ	0	NA			-		
	Stop:		100	1 A A			1	-		-
	8:09						-		-	
	Total hrs: 42min						-	_	-	-
Survey # 3	Date:	-	-		-		# Birds	Sex	UTME	UTM
Obaerver(s)	6/18/2014						# Birds	Sex	UIME	UIMP
J Steinman	6/18/2014 Start:						-	-		
	6:57			1.00			-	-		-
	Stop:	0	.0	Q	NA				-	
	8:17				1					
	Total hrs:									
	80min									
Survey #4	Date:	-	-				# Birds	Sex	UTME	UTM
Observer(\$)	7/3/2014									11
Steinman	Start:								-	
	6:03	0	0	D	NA			)		
	Stop:			2						
	6:50									
	Total hrs:	· · · · · ·							1	-
	47min	-		-						-
Survey #5	Date:						# Birds	Sex	UTM E	UTMN
Observer(s) Steinman	7/15/2014 Start:	1					-	-		
osymmetry	A COMPANY OF						-		-	
	7:34 Stop:	0	0	Ó	NA		-	-		
	8:20							-		-
	Total hrs:						-		-	-
	46min		· · · · · · · · · · · · · · · · · · ·				1			
Overall Site St	ummary	-	-	-	-				-	
Totals do not equal th	e sum of each	Total Adult	Total Pairs	Total	Total Nests					
tolumn. Include only Do not include migra		Residents	Lotai Pairs	Territories	Total Prests	Were any WIFLs color-banded	Yes		No	
ledglings				_						
Be careful not to doub nehviduale	ble count				1000	If yes, report color co	nbination(s)	in the co	mments	
Fotal survey h	rs: 4.4	0	0	0	na	section on back of t				
Reporting Indivi	-94	-	-	Jeff Steinma		Data Banast Councilate	wl-		9/30/2014	-
selvaring multi	nudi.	rmit #:		TE-08		Date Report Complete			2/31/4/14	_

	Jeff Steinr	nan	Phone #	(415) 250-2692
Affiliation	Garcia and Associa	tes	E-mail	isteinman@garciaandassociates
Site Name	Topock CA-5		Date report Completed	9/30/2014
Was this site surveyed in a p		anown		
and the second	te is consistent with that used in previous y	rs? Yes 1	No	Not Applicable
If name is different, what name(	s) was used in the past?			
	id you survey the same general area this yes		No	If no, summarize below.
Did you survey the same genera	al area during each visit to this site this year	? Yes	No x	If no, summarize below.
Management Authority for Surv	vey Area: Federal <u>x</u> M	funicipal/County	State	Tribal Privale
Name of Management Entity or	Owner (e.g., Tonto National Forest)		BLM	
Length of area surveyed:	152 meters	(ltm)		
in the second	eck (only one) category that best describes	the predominant tree/s	hrub foliar layer at this site:	
egetation Characteristics: Che	Contrast and a second	CONTRACTOR STREET, STREET, STREET, ST	for a Grune of Color warded	
	dleaf plants (entirely or almost entirely, > 9	0% native)	and the second state	
Native broa				
Native broa Mixed nativ	dleaf plants (entirely or almost entirely, > 5	% native)		
Native broa Mixed nativ X Nixed nativ	dleaf plante (entirely or almost entirely, > 5 ve and exotic plants (mostly native, 50 - 90)	% native) % exotic)		
Native broa     Mixed nativ     x     Mixed nativ     Exotic/intro	dleaf plants (entirely or almost entirely, $> 5$ re and exotic plants (mostly native, 50 - 90% re and exotic plants (mostly exotic, 50 - 90%	% native) % exotic) 90% exotic)		
Native broa     Mixed nativ     x     Mixed nativ     Exotic/intro	dleaf plants (entirely or almost entirely, > 5 ve and exotic plants (mostly native, 50 - 90% ve and exotic plants (mostly exotic, 50 - 90% oduced plants (entirely or almost entirely, > ve/shrub species in order of dominance. Use	% native) % exotic) 90% exotic)		

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing 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. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features...

Attach additional sheets if necessary

The site has been extended to the south to inlclude the expanded Project Area of Potential Effect.

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)
		1				
-						
		_				
				1		

USGS Quad	Topock C Name:		Iountain			State: CA	Elevation:		ernardino (meter	s)
Creek, River.			Colorado	Divor			Lievaden.	191	unterer	5)
					JUTEL	sightings attached (as required)?	Yes	X	No	_
							1000 m 1			Sec. 1
Survey Coor	dinates:	Start:	-	729163	- N		Datum:	8.		nuctions)
	1.5	Stop:		729249	N	and the second se	Zone:	11		
If	survey coor	dinates c				ordinates for each survey in commen		on back	of this page.	
			**Fill	n additio	nal site	information on back of this po	age **			
Survey# Observer(s) (Full Name)	Date (m/d/y) Survey Time	Number of Adult WIFLs	Estimated Number of Paits	Estimated Number of Territories	Nest(s) Found? Y or N If Y es, number of nests	Comments (e.g., bird behavior; evidence of pairs o breeding-potential threats [livestock, cowbirds, Disrhabda sop.]]. If Disrhabda found, contact USFWS and State WIFL coordinator.	(this is an opt pairs, or grou	ional colum ps of birds	IPL Detections an for documenting found on dditional sheets if n	
Survey #1	Date:		-		and the		# Birds	Sex	UTM E	UTMN
Observer(s)	5/20/2014									-
J Steimnan	Start:						-		-	-
	8:31			1.1	100	SWFL single indiuvidual auditory and visual			1	
	Stop:	1	0	0	NA	detection fitz-bew heard	-			
	8:55									
	Total hrs:								-	
	24min									1
Survey # 2	Date:				1		# Birds	Sex	UTME	UTMN
Dhuerver(s)	6/6/2014	5					1			
J Steinman	Start:									
	6:38	0	0	σ	NA					
	Stop:						1	-		
	7:37									
	Total hrs:								-	
Recording of a	59min	-	-							
Survey # 3	Date:			1			# Birds	Sex	UTM E	UTM N
Observer(s) J Steinman	6/18/2014						-		-	
orenomian	Start: 6:25			- 11			-	-		
	Stop:	0	.0	Q	NA		-		-	-
	6:54			1.1	1		-			
	Total hrs:	1.000							-	-
	29min						-	-		
Survey #4	Date:	-	-				# Birds	Sex	UTM E	UTMN
Observer(\$)	7/1/2014									
J Steinman	Start:	1					1		-	
	6:36	1.5		1.2			· · · · · · ·			
	Stop:	0	-0	D	NA	BHCO				
	7:28									
	Total hrs:									-
	52min		2	<u>b</u> (	-	1.0	1.000		1	1
Survey #5	Date:						# Birds	Sex	UTME	UTMN
(bserver(s)	7/15/2014					1 Provent	-			
Steinman	Start:						-			
	630	0	0	0	NA		-		-	1
	Stop:						-		-	
	7:00 Total hrs:						-		-	-
	30min						-			
Overall Site St		-	-	-	-		1	1. P. 1		
'otals do not equal th		Total Adult	-	Total	Same .					
alumn Include only	r rem dent a dultr.	Residents	Total Pairs	Territories	Total Nests	Were any WIFLs color-banded	? Yes		No	
Do not include migra ledglings	nis, nemings, and									
e careful not to doub	ole count	-	-		1.7-11	If yes, report color co	mbination(a)	in the cor	nments	
nshviðuale Pested autorstone h	rs: 3.2	0	0	0	na	section on back of				
fotal survey h				2000						_
eporting Indivi	idual:			Jeff Steinman	n	Date Report Complet	ed:		9/30/2014	

Reporting Individual		Jeff Steinman		Phone	# (415) 250-2692
Affiliation	G	arcia and Associates		E-ma	II jsteinman@garciaandassociate
Sile Name	Topock C		2.1	Date report Complet	ed 9/30/2014
Did you verify that this	ed in a previous year? Yes_ s site name is consistent with th	at used in previous yrs?	Yes x	No	Not Applicable
	nat name(s) was used in the pas				
	st year, did you survey the same		Yes x	No	If no, summarize below
Did you survey the san	ne general area during each visi	it to this site this year?	Yes x	No	If no, summarize below.
Management Authority	for Survey Area:	Federal <u>x</u> Municipal/	County	State	Tribal Privale
Name of Management	Entity or Owner (e.g., Tonto N	ational Forest)		BLM	
enoth of area surveye	d	152.0	(km)		
length of area surveye	d/	152.0	(km)		
	d: tics: Check (only one) categor	View Wildows N	-	nb foliar layer at this si	te:
Vegetation Characteris	No. of Concession, Name	y that best describes the predd	ominant tree/sh	nıb foliar layer at this si	le:
/egetation Characteris	tics: Check (only one) categor	y that best describes the prede or almost entirely, > 90% nati	ominant tree/shi ve)	nıb föliar layer at this si	te:
Na Na	tics: Check (only one) eategor tive broadleaf plants (entirely o	y that best describes the prede or almost entirely, > 90% nati- nostly native, 50 - 90% native		nib fòliar layer at this si	le.
Vegetation Characteris Na	tics: Check (only one) categor tive broadleaf plants (entirely o xed native and exotic plants (n	y that best describes the predd or almost entirely, > 90% nati- nostly native, 50 - 90% native nostly exotic, 50 - 90% exotic		nıb foliar layer at this si	te.
Vegetation Characteris Na Mi <u>x</u> Mi Ex	tics: Check (only one) categor tive broadleaf plants (entirely o xed native and exotic plants (n xed native and exotic plants (n	y that best describes the prede or almost entirely, > 90% nati- nostly native, 50 - 90% native nostly exotic, 50 - 90% exotic or almost entirely, > 90% exo		nıb foliar layer at this si	le:

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing 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. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features.\_\_Attach additional sheets if necessary\_\_\_\_\_

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)
i		1				
-						
	( (					
					1	
			1			

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

USGS Quad		A-7 Whale N	lountain	· · · · · · · · · · · · · · · · · · ·			Elevation:		rnardino (meter	s)
Creek, River.			Colorado	River	-		ine ruden.		(incites	.,
					d WIFL	sightings attached (as required)?	Yes	X	No	
Survey Coor		Start:		730283	N	a second s	Datum:	8		muctions)
Survey Coon	umates.				- C - C - C - C - C - C - C - C - C - C					(ructions)
		Stop:		730097	N	A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O	Zone:	1		
II	survey coo	rdinates c.	hanged bet	ween visits	s, enter co	ordinates for each survey in commen	ts section	on back	of this page.	
			**Ful L	n additio		information on back of this pa	ge **	-		
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, mumber 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 opt pairs, or grou	ional colur ps of birds	IL Detections an for documenting found on dational sheets if r	
Survey #1	Date:		1				# Birds	Sex	UTM E	UTMN
Observer(s)	5/20/2014									1
) Steimnan	Start:	1 C					-		-	
	7:45	2			1 Care		-		1	
	Stop:	0	0	Q	NA				-	
	8:24									1
	Total hrs:	2.6					-		-	1
	39min	-							-	
Survey # 2	Date:	-	-	-			# Birds	Sex	UTME	UTMN
Diserver(s)	6/5/2014									
Steinman	Start:	r								1
	8:11	121								
	Stop:	0	0	Ø	NA		1			
	8:56								1	
	Total hrs:									
	45min	1					1			
Survey # 3	Date:	-	()		1.000		# Birds	Sex	UTM E	UTMN
Obaerwer(#)	6/18/2014									
J Steinman	Start:						-			
	8:25	0	.0	0	NA		1			
	Stop:	Ū.		é.	150		1000			
	9:06									
	Total hrs:						1			
	41min								-	_
Survey #4	Date:						# Birds	Sex	UTM E	UTM
Observer(\$)	7/3/2014						-			1
Steinman	Start:								-	
	6:55	0	0	D	NA			1		
	Stop:									
	7:20									
	Total hrs:									
	25min		-	-						
Survey #5	Date:						# Birds	Sex	UTME	UTMN
(beerver(s)	7/15/2014						-	-		-
Steinman	Start:						-	-		
	7:06	0	0	Ó	NA		-			
	Stop: 7:30	-							-	
	7:30 Total hrs:									-
	24min									
Overall Site St		-		-			-		-	
Fotals do not equal th		Total Adult	1000	Total	Sec. 1					
column Include only	ren dent a dultr.	Residents	Total Pairs	Territories	Total Nests	Were any WIFLs color-banded	Yes		No	
Do not include migra ledglings	ats, an stlings, and		Sec. 1.		1.1	The start the const-ballued	105		110	
e careful not to doub	de count		(			T	A.T. Married	in the second		
nshvi duala	-	0	D	0	0	If yes, report color con section on back of f				
fotal survey h	rs: 3.0		-			section on back of f	orm and rept	acto cist	11.05	
	dual:			Jeff Steinma		Date Report Complete	vi-		9/30/2014	

	di la constante di	Jei	f Steinman		Phone	#(4	15) 250-269	2
Affiliation		Garcia and	Associates		E-mai	I isteinman	Qgarciaandas	ssociate
Site Name		pock CA-7		1	Date report Complete	bd	9/30/2014	
and the second sec	ed in a previous year s site name is consister		_Unknown_ evious yrs?	_XYes	No	N	ot Applicable	-
f name is different, w	hat name(s) was used i	n the past?						
f site was surveyed la	st year, did you survey	the same general are	a this year?	Yes	No	If no, summ	arize below.	
Jid yon survey the sa	me general area during	each visit to this site	this year?	Yes X	No	If no, summa	arize below.	
Management Authorit	y for Survey Area:	Federal	Municipa	I/County	State	Tribal	Privale	
Name of Management	Entity or Owner (e.g.,	Tonto National Fores	st)		PG&E			
length of area survey	ed:	228 meters		(km)				
	the distinguise	Second and the second			a en araba a araba			
					unib fòliar layer at this sit	e.		
N	ative broadleaf plants (	entirely or almost ent	irely, >90% nat	tive)				
x M	ixed native and exotic	plants (mostly native	, 50 - 90% nativ	e)				
M	ixed native and exotic	plants (mostly exolic	, 50 - 90% exoti	c)				
E	cotic/introduced plants	(entirely or almost er	ntirely, >90% ex	xotic)				
dentify the 2-3 predo	minant tree/shrub speci	es in order of domina	ince. Use scienti	fic name.				
Contraction of the State of the	2 - Mar 1 1	Salix Goo	ddingii. Acacia	gregii, Tamari	x spp.			

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections, 2) sketch or aerial photo showing 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. Describe any unique habitat features in Comments.

Comments (such as start and end coordinates of survey area if changed among surveys, supplemental visits to sites, unique habitat features.\_\_Attach additional sheets if necessary\_\_\_\_\_

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)
	1	1				
				1		
		-		-		

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

Appendix E

**Call Points and Detection UTM Coordinates** 

Vame	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	730108	3845465
AZ1-17		AZ	730067	3845500
AZ1-18		AZ	730027	3845533
AZ1-19		AZ	729980	3845567
AZ1-20		AZ	729943	3845609
AZ1-21		AZ	729929	3845657
AZ1-22		AZ	729917	3845690
AZ1-23		AZ	729891	3845727
AZ1-24		AZ	729867	3845759
AZ1-25		AZ	729873	3845812
AZ1-26		AZ	729823	3845857
AZ1-40		AZ	730269	3844972
AZ1-41		AZ	730173	3844898
AZ1-42		AZ	730259	3844828
AZ1-42		AZ	730302	3844935
AZ1-44		AZ	730300	3845020
AZ1-45		AZ	730329	3844908
AZ1-45		AZ	730334	3845059
AZ1-48		AZ	730180	3845295
AZ1-49		AZ	730256	3845305
AZ1-49 AZ1-50		AZ	730382	3844927
AZ1-50 AZ1-51		AZ	730379	3844901
AZ1-51		AZ	730379	3844792
AZ1-52 AZ1-53		AZ	730272	3844962
AZ1-53		AZ	730441	3844892
AZ1-54 AZ1-55		AZ	730441	3844986
AZ1-55 AZ1-56		AZ	730442	3845117
AZ1-56 AZ1-57		AZ	730400	3845202
AZ1-57 AZ1-58		AZ	730398	3845202
AZ1-08 AZ1-59				
		AZ	730168	3845486
AZ1-60		AZ	730063	3845555
AZ1-61		AZ	729986	3845704
AZ1-62		AZ	729952	3845785
AZ1-63		AZ	729917	3845866
170.1		AZ-2	-	0011100
AZ2-1	eliminated June 2014	AZ	730325	3844433

Name	Added/Eliminated	State	Easting	Northing
AZ3-1		AZ	730616	3844747
AZ3-2		AZ	730683	3844764
AZ3-3		AZ	730740	3844808
AZ3-4		AZ	730774	3844846
		AZ-4		
AZ4-1		AZ	730909	3844998
AZ4-10		AZ	730976	3845444
AZ4-11		AZ	730962	3845519
AZ4-12	2	AZ	730975	3845261
AZ4-13		AZ	730952	3845205
AZ4-14		AZ	730936	3845148
AZ4-2		AZ	730945	3845027
AZ4-3		AZ	730988	3845077
AZ4-4		AZ	731026	3845131
AZ4-5		AZ	731051	3845213
AZ4-6		AZ	731033	3845254
AZ4-7		AZ	731021	3845283
AZ4-8		AZ	730996	3845334
AZ49		AZ	730991	3845397
1210		AZ-5	100001	0010001
AZ5-1		AZ	731062	3846290
AZ5-2		AZ	731024	3846250
AZ5-3		AZ	730991	3846205
AZ5-4		AZ	731001	3846123
AZ5-5		AZ	731005	3846021
AZ5-6		AZ	730998	3845926
AZ5-7		AZ	730984	3845838
AZ5-8		AZ	730978	3845736
AZ5-9		AZ	730976	3845682
AZ5-10		AZ	731001	3845574
AZ5-11		AZ	731071	3845586
AZ5-12		AZ	731029	3845643
AZ5-12		AZ	731040	3845694
AZ5-14		AZ	731040	3845735
AZ5-15		AZ	731028	3845766
AZ5-16		AZ	731039	3845808
AZ5-17		AZ	731069	3845849
AZ5-18		AZ	731100	3845875
AZ5-18 AZ5-19		AZ	731148	3845675
AZ5-19 AZ5-20		AZ	731137	3845931
AZ5-20 AZ5-21		AZ	731163	3845968
AZ5-21 AZ5-22		AZ	731163	3845994
AZ5-22		AZ		
AZ5-23 AZ5-24		AZ	731211 731235	3846046 3846092
AZ5-24 AZ5-25		AZ	731235	3846128
AZ5-26		AZ	731248	3846132
AZ5-27		AZ	731244	3846178
AZ5-28		AZ	731240	3846265
AZ5-29		AZ	731255	3846296
AZ5-30		AZ	731309	3846309
AZ5-31		AZ	731375	3846309

Name	Added/Eliminated	State	Easting	Northing
AZ5-32	10	AZ	731306	3846378
AZ5-33		AZ	731198	3846338
AZ5-35		AZ	731134	3846395
AZ5-36		AZ	731021	3846316
AZ5-37		AZ	731048	3846338
AZ5-38		AZ	731068	3846370
AZ5-39		AZ	731034	3846406
AZ5-40		AZ	731028	3846427
AZ5-41	184	AZ	730965	3846465
AZ5-42	- 1 - 1 - 1 - 1	AZ	731050	3846482
AZ5-43		AZ	731118	3846529
AZ5-44	1	AZ	730920	3846426
AZ5-45		AZ	730924	3846391
AZ5-46		AZ	730927	3846366
AZ5-47		AZ	730902	3846345
AZ5-48		AZ	730868	3846365
AZ5-49		AZ	730948	3846298
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		CA-1	100340	5040290
CA1-1	eliminated June 2014	CA	728108	3845784
CA1-C	eliminated June 2014	CA	728199	3845750
CA1-J	eliminated June 2014	CA	728449	3845723
CA1-M	eliminated June 2014	CA	727932	3845776
CA1-N	eliminated June 2014	CA	727960	3845769
CA1-K	eliminated June 2014	CA	728081	3845821
CA1-O	eliminated June 2014	CA	728245	3845750
CA1-P	eliminated June 2014	CA	728344	3845721
CA1-Q	eliminated June 2014	CA	728403	3845709
UNI-G	eliminated some 2014	CA-2	120400	0040700
CA2-F	1	CA	728507	3845579
CA2-G		CA	728558	3845596
CA2-K	111	CA	728595	3845612
CA2-L	- 1	CA	728646	3845620
CA2-N		CA	728708	3845636
CA2-R		CA	728754	3845589
CA2-S		CA	728693	3845581
CA2-S CA2-T		CA	728901	3845676
CA2-U		CA	728847	3845667
CA2-V		CA	728788	3845654
0/12-1		CA-3	1 /20/00	5045054
CA3-3	1	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	729199	3845691
CA3-F		CA	729176	3845653
CA3-G	1	CA	729116	3845711
CA3-H		CA	729038	3845681
CA3-I		CA	728983	3845681
CA3-J	1111	CA CA-4	729202	3845543

Name	Added/Eliminated	State	Easting	Northing
CA4-D		CA	729415	3845232
CA4-E		CA	729387	3845310
CA4-F		CA	729449	3845300
CA4-G		CA	729434	3845366
CA4-H		GA	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
CA4-P		CA	729384	3845151
CA4-Q		CA	729473	3845265
CA4-R	-	CA	729628	3845196
CA4-S		CA	729686	3845109
CA4-T		CA	729710	3845206
CA4-U		CA	729665	3845280
CA4-V		CA	729550	3845406
CA4-W		CA	729594	3845360
		CA-5	1	
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		CA	729930	3844459
CA5-M		CA	730025	3844330
07.0 m		CA-6	100020	0011000
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
1		CA-7	1.20100	0040400
CA7-A		CA	730284	3844250
CA7-B		CA	730206	3844225
CA7-C		CA	730171	3844230
CA7-D		CA	730097	3844233
		Detections	(00007	0044200
SWFL CA4-V		CA	729554	3845357
SWFL CA6-K		CA	729193	3845384
SWFL AZ4-10		AZ	730951	3845404
			100001	0040404

Name	Added/Eliminated	State	Easting	Northing
YUCR AZ3-4		AZ	730778	3844843
YEWA AZ5-21		AZ	731156	3845961
AZBV AZ1		AZ	729949	3845787
AZBV AZ3	1	AZ	730839	3844943
GBHE nests		AZ	731132	3845968