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September 18, 2008

Ms. Cathy Wolff-White
U.S. Department of the Interior
Bureau of Land Management
2610 Sweetwater Avenue
Lake Havasu City, AZ 86406

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

Dear Ms. Wolff-White:

This letter transmits the *Southwestern Willow Flycatcher Presence/Absence Surveys for the PG&E Topock Compressor Station*. This report was prepared in conformance with the Programmatic Biological Assessment, general project management measure 26, and includes information on the 2008 annual field survey for the southwestern willow flycatcher 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. Three pairs of SWFL were detected at Site A (between call points A19 and A20; A30; and A35) during late May to early June. These detections were most likely of transients, since no detections occurred after the first two survey periods. These results indicate that these survey sites provide habitat as stopover points for SWFL during migration.

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

Sincerely,

A handwritten signature in blue ink that reads 'Yvonne Meeks'.

Cc:

Cindi Hall/USFWS
Lesley Fitzpatrick/USFWS
Aaron Yue/DTSC
David Elms/CDFG
Rebecca Davidson/ADGF
Rob Knutson/PG&E

September 2008

SOUTHWESTERN WILLOW FLYCATCHER PRESENCE/ABSENCE SURVEYS FOR THE PG&E TOPOCK COMPRESSOR STATION



Prepared By:

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GARCIA and ASSOCIATES

NATURAL & CULTURAL RESOURCE CONSULTANTS



2008 Southwestern Willow Flycatcher Presence/Absence Surveys for the PG&E Topock Compressor Station

Prepared by:

Garcia and Associates

September 2008

Prepared for:

CH2M HILL, Inc. and

Pacific Gas & Electric Co.

Contents

1.0	Introduction.....	1-1
2.0	Site Description	2-1
3.0	Vegetation and Habitat Quality	3-1
3.1	Vegetation.....	3-1
3.2	Habitat Quality	3-1
4.0	Survey Methods.....	4-1
5.0	Results	5-1
5.1	SWFL	5-1
5.2	Incidental Species	5-1
6.0	Conclusions	6-1
7.0	References.....	7-1

Figures

1	Map of survey sites and call points.....	2-2
2	Area of vegetation removal in Moabi Regional Park from Site 1.	4-2
3	Area of vegetation removal in Moabi Regional Park from north side of Site 2... 4-2	
4	Area of vegetation removal in Moabi Regional Park from south side of Site 2.	4-3
5	Map of southwestern willow flycatcher detections.....	6-2

Appendices

A	Photo Log
B	Incidental Plant and Vertebrate Species
C	Survey Forms
D	Call Points and UTM Coordinates

1.0 Introduction

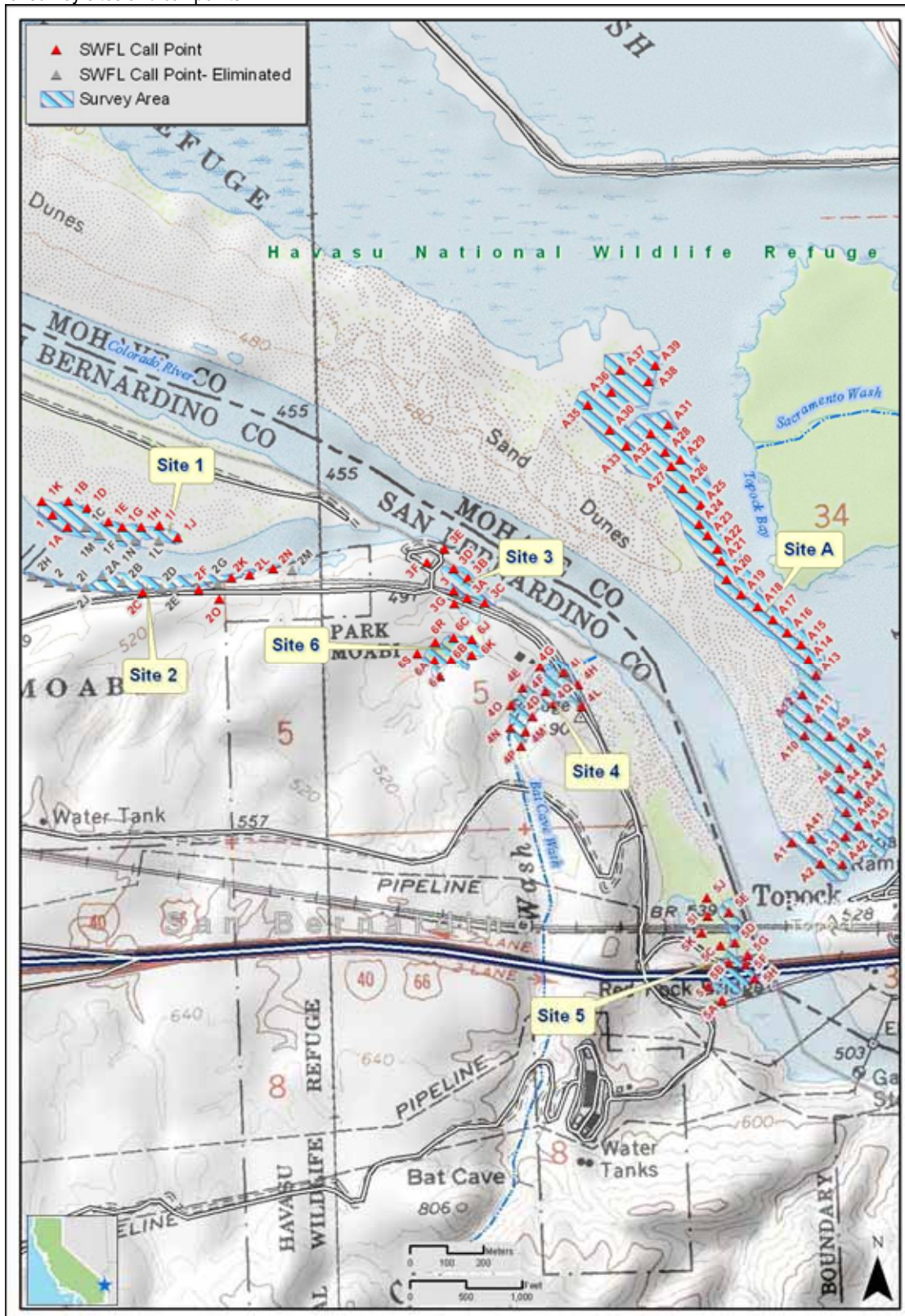
Under contract to CH2M HILL, Garcia and Associates (GANDA) conducted a protocol survey for the southwestern willow flycatcher (SWFL) (*Empidonax traillii extimus*) for Pacific Gas and Electric Company (PG&E) near the Topock Compressor Station, 15 miles southeast of Needles, California. The purpose of the survey was to determine the presence or absence of the federally and State of California threatened SWFL. Surveys were conducted following the survey protocol outlined in *A Southwestern Willow Flycatcher Natural History and Survey Protocol* (Sogge *et al.* 1997) and the changes outlined in the 2000 US Fish and Wildlife Service (USFWS) revision (USFWS 2000). This report fulfills general project management Measure 26 of the Programmatic Biological Assessment (PBA) (CH2M HILL 2007). Measure 26 states:

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

2.0 Site Description

The survey area consists of seven sites near the Topock Compressor Station. The sites are located along either side of the Colorado River. Six sites are in San Bernardino County, California, and one site is in Mohave County, Arizona. These seven sites were all located within the area of potential effect (APE) of the PBA. None of the survey sites are located within USFWS designated critical habitat for the SWFL (USFWS 2005), in fact there is no critical habitat for this species within the APE. The Arizona site, the largest of the sites, is in the USFWS Havasu National Wildlife Refuge (Site A, Figure 1). Three of the California sites are on Bureau of Land Management (BLM) land (Sites 3, 4 and 6, Figure 1), two sites are in the Moabi Regional Park (Sites 1 and 2, Figure 1), and one site is in the California portion of the Havasu National Wildlife Refuge (Site 5, Figure 1). Survey sites total approximately 80 acres and vary in elevation from 400 to 500 feet above sea level.

FIGURE1
Map of survey sites and call points



3.0 Vegetation and Habitat Quality

3.1 Vegetation

The most abundant plant species in the survey area include salt cedar (*Tamarix ramosissima*), coyote willow (*Salix exigua*), catclaw acacia (*Acacia greggii*), arrowweed (*Pluchea sericea*), and palo verde (*Cercidium microphyllum*). Salt cedar is the predominant species throughout the survey area, often forming dense thickets over eight feet in height. A complete list of the plant species observed is included in Appendix B.

3.2 Habitat Quality

Overall, the survey area is of moderate habitat quality for SWFL. The Colorado River provides standing surface water throughout the breeding season and includes a suitable vegetation composition; however, habitat fragmentation and human disturbance detract from the overall habitat quality. The California sites (Figure 1) are small and geographically isolated by the surrounding desert, National Trails Highway, and the Colorado River. Additionally, the proximity of the California sites to Park Moabi, Interstate 40, the Burlington Northern Santa Fe (BNSF) Railway, and the PG&E Topock Compressor Station also result in a high level of human disturbance. The Arizona site (Figure 1) is located on a large peninsula and generally bordered by contiguous riparian habitat and bulrush-dominated marsh. However, this site is also adjacent to the Topock Marina, a community that includes more than a dozen houses and several businesses. Watercraft were frequently observed on the Colorado River and in the Topock Marsh and are likely a contributing factor to the increased disturbance at this location. A photo of each survey site is included in Appendix A.

4.0 Survey Methods

GANDA wildlife biologist Jeff Steinman (USFWS permit #TE-085026-2, AZGFD Permit #SP-597467, and CDFG Permit SC-007801) conducted the SWFL surveys, following the protocol outlined by Sogge *et al.* (1997) and the protocol revision prepared by the USFWS (USFWS 2000). The protocol revision for project-related surveys recommends that five surveys be conducted during three survey periods, with three of the surveys occurring within the last survey period. These three survey periods are May 15 to 31, June 1 to 21, and June 22 to July 17. Mr. Steinman conducted the SWFL surveys from May 20 to 23, June 3 to 6, June 24 to 27, July 7 to 10, and July 14 to 16. All surveys were conducted between 04:30 and 10:00 hours. Completed survey forms for each site are included in Appendix C.

The 2008 survey areas were the same as surveyed in previous years (2005 through 2007) with the exception of call points 2 and 2H that were eliminated in 2006, and call points 1L, 1N, 1F, 1M, 1C, 2I, 2J, 2A, 2B, 2D, 2E, 2G, and 2M that were eliminated in 2008 (Figure 1). These call points were eliminated due to vegetation removal in Moabi Regional Park (Figures 2 through 4).

The survey method consisted of using an MP3 player and speaker system to broadcast SWFL calls from call points established during the 2005 survey. Call points were originally established in the field using aerial photographs, topographic maps, and global positioning system (GPS) units to ensure that the same call points were used each year. Call points were placed between 30 and 50 meters apart, depending on the quality of the habitat, thickness of vegetation, and accessibility. The call points were located in 2008 using a GPS unit containing their UTM coordinates. Appendix D includes a complete list of call points.

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

During the SWFL surveys, Mr. Steinman also collected incidental species data, which he recorded on separate data sheets presented in Appendix B.

FIGURE 2

Area of vegetation removal in Moabi Regional Park from Site 1.

**FIGURE 3**

Area of vegetation removal in Moabi Regional Park from north side of Site 2.



FIGURE 4

Area of vegetation removal in Moabi Regional Park from south side of Site 2.



5.0 Results

5.1 SWFL

One pair of SWFL was detected on May 21, 22 and June 3 between call points A19 and A20 in Site A along the Arizona side of the Colorado River. Two additional pairs of SWFL were detected on May 22 in Site A at call points A30 and A35 (Figure 5). All detections were based on the visual and auditory characteristics of individual birds. The “fitz-bew” call, which is required for a confirmed detection, was heard from every individual detected. Surveys of the same sites on subsequent visits resulted in no SWFL detections. There were no SWFL detections in any other survey sites during any surveys.

5.2 Incidental Species

A variety of incidental wildlife species were observed during the SWFL survey. The diversity and abundance of wildlife species encountered were influenced by their proximity to the creosote-dominated desert and the Topock Marsh, a large wetland with abundant wildlife and bird species. The most commonly observed non-avian vertebrate species were desert cottontail (*Sylvilagus audubonii*), black-tailed jackrabbit (*Lepus californicus*), beaver (*Castor canadensis*), coyote (*Canis latrans*), bullfrog (*Rana catesbeiana*), and western side-blotched lizard (*Uta stansburiana*). The most commonly observed avian species were great-tailed grackle (*Quiscalus mexicanus*), white-winged dove (*Zenaida asiatica*), lesser nighthawk (*Chordeiles acutipennis*), and black-tailed gnatcatcher (*Polioptila melanura*). Complete lists of the avian and non-avian vertebrate species observed are included in Appendix B.

Some significant observations during the 2008 surveys were the detections of western yellow-billed cuckoo (*Coccyzus americanus*), Yuma clapper rail (*Rallus longirostris yumanensis*), Arizona Bell’s vireo (*Vireo bellii arizonae*), and brown-headed cowbird (*Molothrus ater*).

A single western yellow-billed cuckoo was observed on July 14 at call point A11 in the Arizona survey area. Western yellow-billed cuckoo is listed as an endangered species by the California Department of Fish and Game (CDFG), a Species of Concern by the Arizona Game and Fish Department (AZGFD), and is a Candidate for listing by the USFWS. Although this observation was of a single individual, it is significant in that the late timing of the observation may indicate that cuckoo are breeding in the area.

A single Yuma clapper rail was observed on June 24 at call point A13 in the Arizona Site. Yuma clapper rail is listed as a federal and California State Endangered species and a Species of Concern by the AZGFD.

Detections of Arizona Bell’s vireo occurred during every survey period in the Arizona survey area from call points A39 to A20. Although this species has no Arizona or federal protective status, the California subspecies least Bells vireo (*Vireo bellii pusillus*) is listed as

endangered in California. This is the fourth year that Arizona Bell's vireo was observed during surveys, and the second year that detections occurred during every visit.

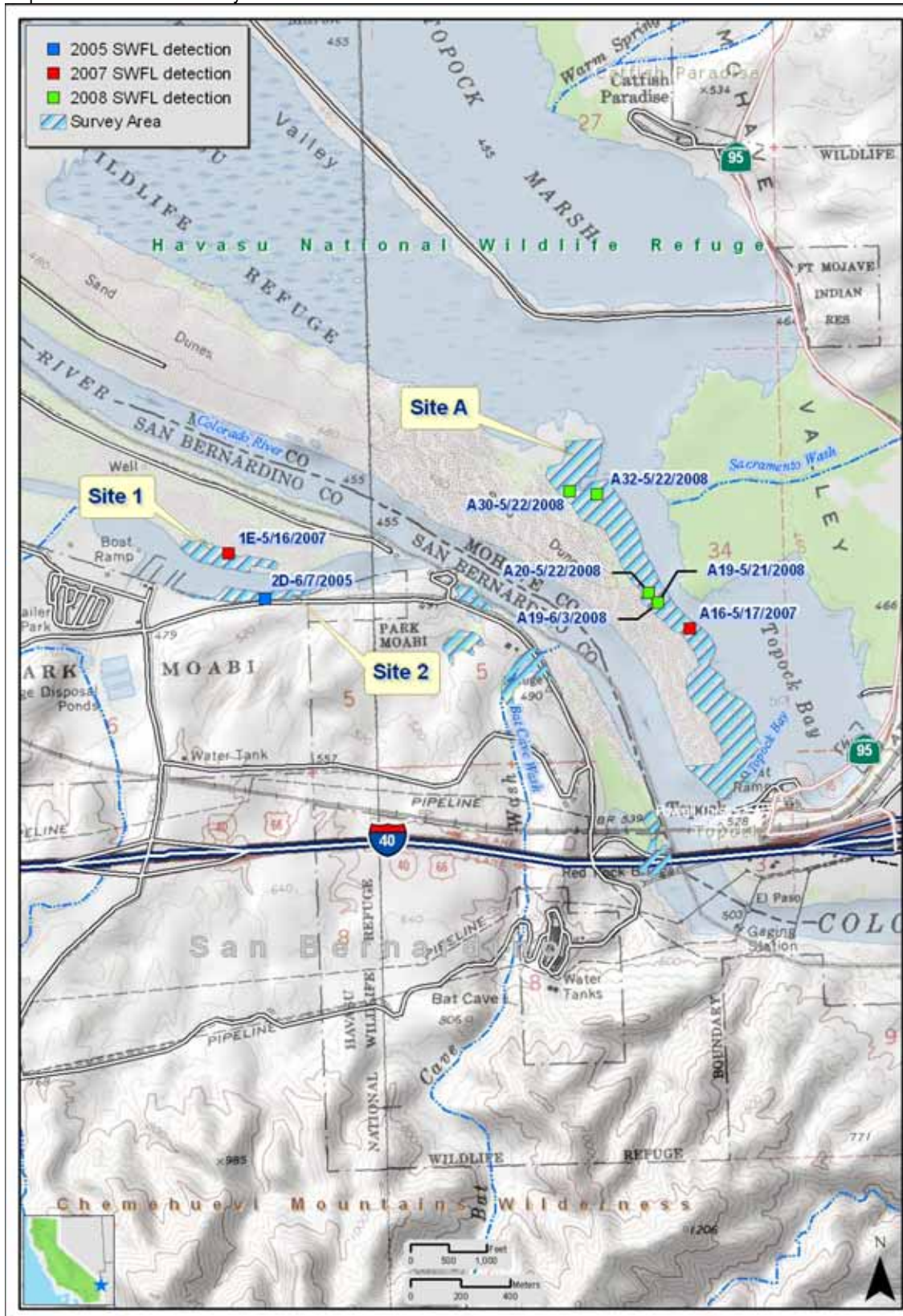
Brown-headed cowbirds were observed at four sites in the project area (Sites A, 2, 3, and 5). This differed from the three previous years when cowbirds were observed at every site. Cowbirds are known nest parasites of SWFL and other songbirds, and their presence may be reducing SWFL presence in the area.

6.0 Conclusions

Although SWFL were detected during the 2008 survey, the detections were most likely of transients, since no detections occurred after the first two survey periods. Had SWFL been breeding in the survey area there would have been detections in subsequent survey periods. Three detections at call point A19 on May 21, 22 and June 3, are assumed to be the same individuals since the detection location was the same for all three surveys. In previous surveys, potential transient SWFL were detected at call points 2D in 2005 and at 1E and A16 in 2007 (Figure 5). Collectively these detections indicate that the survey sites provide habitat as a stopover points for SWFL during migration. Given the detections of SWFL in the last several years, the presence of suitable habitat, and the presence of nearby breeding populations (Ellis, et. al. 2008; SWCA 2004), there is potential for SWFL to breed in the survey area in the future.

FIGURE 5

Map of southwestern willow flycatcher detections.



7.0 References

- CH2M HILL. 2007. Programmatic Biological Assessment for Pacific Gas and Electric Topock Compressor Station Remedial and Investigative Actions. January 2007.
- Ellis, L.A., D.M. Weddle, S.D. Stump, H.C. English, and A.E. Graber. 2008. Southwestern Willow Flycatcher Final Survey and Nest Monitoring Report. Arizona Game and Fish Department, Research Technical Guidance Bulletin #10. Arizona Game and Fish Department, Phoenix, AZ. 2008.
- Sogge, M.K., R.M. Marshall, S.J. Sferra, and T.J. Tibbits. 1997. A Southwestern Willow Flycatcher Natural History Summary and Survey Protocol. National Park Service Cooperative Studies Unit. USGS Colorado Plateau Research Station- Northern Arizona University, Flagstaff, Arizona. 1997.
- SWCA Environmental Consultants. 2004. Southwestern Willow Flycatcher Surveys, Demography, and Ecology along the Lower Colorado River and Tributaries. Annual Report. February 2004.
- U.S. Fish and Wildlife Service (USFWS). 2000. Southwestern Willow Flycatcher Protocol Revision 2000. July 11, 2000.
- United States Fish and Wildlife Service (USFWS). 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

Photo Log



Photo 1. Site 1 from call point 2F looking east.



Photo 2. Site 2 from call point 2F looking north.



Photo 3. Site 3 from south side of the site looking north.



Photo 4. Site 4 from the northwest side of the site looking east.



Photo 5. Site 5 from call point 5A looking north.



Photo 6. Site 6 from call point 6K looking north.



Photo 7. Site A from call point A19 looking north.

Appendix B
Incidental Plant and Vertebrate Species

Table 1. Bird Species Observed

Common Names	Scientific Names
Abert's Towhee	<i>Pipilo aberti</i>
American Coot	<i>Fulica americana</i>
American Kestrel	<i>Falco sparverius</i>
Anna's Hummingbird	<i>Calypte anna</i>
Arizona Bell's Vireo	<i>Vireo bellii</i>
Ash-throated Flycatcher	<i>Myiarchus cinerascens</i>
Bewick's Wren	<i>Thryomanes bewickii</i>
Black Phoebe	<i>Sayornis nigricans</i>
Black-chinned Hummingbird	<i>Archilochus alexandri</i>
Black-tailed Gnatcatcher	<i>Poliophtila melanura</i>
Blue Grosbeak	<i>Passerina caerulea</i>
Brown-headed Cowbird	<i>Molothrus ater</i>
Bushtit	<i>Psaltiriparus minimus</i>
Canada Goose	<i>Branta canadensis</i>
Caspian Tern	<i>Sterna caspia</i>
Clark's Grebe	<i>Aechmophorus clarkia</i>
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>
Common Poorwill	<i>Phalaenoptilus nuttallii</i>
Common Raven	<i>Corvus corax</i>
Common Yellowthroat	<i>Geothlypis trichas</i>
Common-ground Dove	<i>Columbina passerina</i>
Cooper's Hawk	<i>Accipiter cooperii</i>
Crissal Thrasher	<i>Toxostoma crissale</i>
Double-crested Cormorant	<i>Phalacrocorax auritus</i>
European Starling	<i>Sturnus vulgaris</i>
Gadwall	<i>Anas strepera</i>
Gambel's Quail	<i>Callipepla gambelii</i>
Great Blue Heron	<i>Ardea herodias</i>
Great Egret	<i>Ardea alba</i>
Greater Roadrunner	<i>Geococcyx californianus</i>
Great-tailed Grackle	<i>Quiscalus mexicanus</i>
Hepatic Tanager	<i>Piranga flava</i>
Hooded Oriole	<i>Icterus cucullatus</i>
House Finch	<i>Carpodacus mexicanus</i>
Inca Dove	<i>Columbina inca</i>
Killdeer	<i>Charadrius vociferous</i>
Ladder-backed Woodpecker	<i>Picoides scalaris</i>
Least Bittern	<i>Ixobrychus exilis</i>
Lesser Goldfinch	<i>Carduelis psaltria</i>
Lesser Nighthawk	<i>Chordeiles acutipennis</i>

Common Names	Scientific Names
Loggerhead Shrike	<i>Lanius ludovicianus</i>
Lucy's Warbler	<i>Vermivora luciae</i>
Mallard	<i>Anas platyrhynchos</i>
Mourning Dove	<i>Zenaida macroura</i>
Northern Harrier	<i>Circus cyaneus</i>
Northern Mockingbird	<i>Mimus polyglottos</i>
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>
Olive-sided Flycatcher	<i>Contopus cooperi</i>
Orange-crowned Warbler	<i>Vermivora celata</i>
Osprey	<i>Pandion haliaetus</i>
Purple Finch	<i>Carpodacus purpureus</i>
Red-tailed Hawk	<i>Buteo jamaicensis</i>
Red-shouldered Hawk	<i>Buteo lineatus</i>
Red-winged Blackbird	<i>Agelaius phoeniceus</i>
Rock Pigeon	<i>Columba livia</i>
Rock Wren	<i>Salpinctes obsoletus</i>
Ruddy Duck	<i>Oxyura jamaicensis</i>
Say's Phoebe	<i>Sayornis saya</i>
Snowy Egret	<i>Egretta thula</i>
Song Sparrow	<i>Melospiza melodia</i>
Summer Tanager	<i>Piranga rubra</i>
Turkey Vulture	<i>Cathartes aura</i>
Verdin	<i>Auriparus flaviceps</i>
Western Grebe	<i>Aechmophorus occidentalis</i>
Western Kingbird	<i>Tyrannus verticalis</i>
White-Faced Ibis	<i>Plegadis chihi</i>
White-Winged Dove	<i>Zenaida asiatica</i>
Wilson's Warbler	<i>Wilsonia pusilla</i>
Yellow-Breasted Chat	<i>Icteria virens</i>
Yellow-Headed Blackbird	<i>Xanthocephalus xanthocephalus</i>
Yuma Clapper Rail	<i>Rallus longirostris yumanensis</i>

Table 2. Wildlife Species Observed

Common Name	Scientific Name
American Bullfrog	<i>Rana catesbeiana</i>
Beaver	<i>Castor canadensis</i>
Black-tailed Jackrabbit	<i>Lepus californicus</i>
Burro	<i>Equus asinus</i>
Coyote	<i>Canis latrans</i>
Desert Cottontail	<i>Sylvilagus audubonii</i>
Desert Iguana	<i>Dipsosaurus dorsalis</i>
Feral Hog	<i>Sus scrofa</i>
Side-blotched Lizard	<i>Uta stansburiana</i>
Western Whiptail	<i>Cnemidophorus tigris</i>
Western Diamond-backed Rattlesnake	<i>Crotalus atrox</i>

Table 3. Plant Species Observed

Common Name	Latin Name
Arrowweed	<i>Pluchea sericea</i>
Cheesebush	<i>Hymenoclea salsola</i>
Prickly Lettuce	<i>Lactuca serriola</i>
Buckhorn Cholla	<i>Cylindropuntia</i> c.f. <i>achanthocarpa</i>
Silver Cholla	<i>Cylindropuntia echinocarpa</i>
Pencil Cholla	<i>Cylindropuntia ramosissima</i>
California Barrel Cactus	<i>Ferocactus cylindraceus</i>
Beavertail	<i>Opuntia basilaris</i> var. <i>basilaris</i>
Fish-hook Cactus	<i>Mammillaria dioica</i>
Russian Thistle	<i>Salsola tragus</i>
Catclaw Acacia	<i>Acacia greggii</i>
Palo Verde	<i>Cercidium microphyllum</i>
Honey Mesquite	<i>Prosopis glandulosa</i> var. <i>torreyana</i>
Desert Lavender	<i>Hyptis emoryi</i>
Anderson Wolfberry	<i>Lycium andersonii</i>
Cooper's Wolfberry	<i>Lycium cooperi</i>
Desert Tobacco	<i>Nicotiana obtusifolia</i>
Thick-leaf Ground Cherry	<i>Physalis crassifolia</i>
Salt Cedar	<i>Tamarix ramosissima</i>
Cottonwood	<i>Populus deltoides</i>
Coyote Willow	<i>Salix exigua</i>
Gooding's Willow	<i>Salix gooddingii</i>

Common Name	Latin Name
Cattail	<i>Typha angustifolia</i>
Ironwood	<i>Oleaya tesota</i>

Appendix C

Survey Forms

Fill in the following information completely. Submit original form by August 1st. Retain a copy for your records.

Reporting Individual Jeff Steffen Phone # 415 642 8969
 Affiliation Garcia and Associates E-mail garcia.and.associates.com
 Site Name Topock Compressor Station AR-1 Date Report Completed _____

Did you verify that this site name is consistent with that used in previous years? Yes/ No (circle one)
 If name is different, what name(s) was used in the past? _____
 If site was surveyed last year, did you survey the same general area this year? Yes/ No If no, summarize in comments below.
 Did you survey the same general area during each visit to this site this year? Yes/ No If no, summarize in comments below.

Management Authority for Survey Area (circle one): Federal Municipal/County State Tribal Private
 Name of Management Entity or Owner (e.g., Tonto National Forest) Havasu Wildlife Refuge

Length of area surveyed: 3600 ft (specify units, e.g., miles = mi, kilometers = km, meters = m)

Vegetation Characteristics: Overall, are the species in tree/shrub layer at this site comprised predominantly of (check one):

- ☐ Native broadleaf plants (entirely or almost entirely, includes high-elevation willow)
☐ Mixed native and exotic plants (mostly native)
☒ Mixed native and exotic plants (mostly exotic)
☐ Exotic/introduced plants (entirely or almost entirely)

Identify the 2-3 predominant tree/shrub species: Tamarix Ramosissima / Acacia greggii

Average height of canopy (Do not put a range): 20 ft. (specify units)

Was surface water or saturated soil present at or adjacent to site? Yes/ No (circle one)

Distance from the site to surface water or saturated soil: 0 (specify units)

Did hydrological conditions change significantly among visits (did the site flood or dry out)? Yes/ No (circle one)
 If yes, describe in comments section below.

Remember to attach a copy of a USGS quad/topographical map (REQUIRED) of the survey area, outlining the survey site and location of WIFL detections. Also include a sketch or aerial photograph showing details of site location, patch shape, survey route in relation to patch, and location of any willow flycatchers or willow flycatcher nests detected. Such sketches or photographs are welcomed, but DO NOT substitute for the required USGS quad map. Please include photos of the interior of the patch, exterior of the patch, and overall site and describe any unique habitat features.

Comments (attach additional sheets if necessary)

WIFL Detection Locations:

Date Detected	N UTM	E UTM	Date Detected	N UTM	E UTM
5/31	34.7263354	114.4883260	5/22	34.7303194	114.4908694
7/22	34.7263354		6/3	34.7263354	114.4883260
6/22	34.7267180	114.4887042			
5/22	34.7304525	114.4920946			

Willow Flycatcher Survey and Detection Form (revised April, 2004)

Site Name Topock Compressor Station AZ-1 State AZ County Mohave
USGS Quad Name Topock Elevation 440 (feet) meters (circle one)

Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? ☒ Yes ☐ No

Site Coordinates: Start: N 38 46 17.8 E 11 07 29 655 UTM Datum 83 (NAD27 preferred)
Stop: N 38 44 82.8 E 11 07 30 259 UTM Zone 11

**** Fill in additional site information on back of this page ****

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	Corvids Detected? Y or N	Presence of Livestock, Recent sign, If Yes, Describe Y or N	Comments about this survey (e.g., bird behavior, evidence of pairs or breeding, number of nests, nest contents or number of fledges seen, potential threats)
1. Jeff Stammann	Date 5/21- 5/22 Start 0540- 0545 Stop 0545- 0822 Total hrs 5h11m	6	3	3	N	Y	N	3 very responsive pairs observed and heard.
2	Date 6/2-6/4 Start 0601- 0842 Stop 0853- 0851 Total hrs 5h20m	2	1	1	N	N	N	1 pair observed and heard
3	Date 6/24- 6/25 Start 0531- 0847 Stop 0850- 0808 Total hrs 5h12m	0	0	0	N	Y	N	
4	Date 7/5-7/9 Start 0544- 0817 Stop 0836- 0824 Total hrs 4h4m	0	0	0	N	Y	N	
5	Date 7/14 Start 0540 Stop 0907 Total hrs 4h27m	0	0	0	N	Y	N	Monsoon/Rain before survey. Optimal survey conditions.
Overall Site Summary (Total resident WIFLs only)		Adults	Pairs	Territories	Nests	Were any WIFLs color-banded? Yes (No)		
Total survey hrs		0	0	0	0	If yes, report color combination(s) in the comments section on back of form		

Reporting Individual Jeff Stammann Date Report Completed 8/15
US Fish and Wildlife Service Permit # TE-085026 AZ Game and Fish Department (or other state) Permit # 58597467

Submit original form by August 1st. Retain a copy for your records.

Fill in the following information completely. Submit original form by August 1st. Retain a copy for your records.

Reporting Individual Jeff Steinman Phone # 415 642 8969
 Affiliation Garcia and Associates E-mail garciaandassociates.com
 Site Name Topock Compressor Station CA-1 Date Report Completed _____

Did you verify that this site name is consistent with that used in previous years? (Yes) No (circle one)
 If name is different, what name(s) was used in the past? _____
 If site was surveyed last year, did you survey the same general area this year? (Yes) No If no, summarize in comments below.
 Did you survey the same general area during each visit to this site this year? (Yes) No If no, summarize in comments below.

Management Authority for Survey Area (circle one): Federal Municipal/County State Tribal Private
 Name of Management Entity or Owner (e.g., Tonto National Forest) Monterey Regional Park

Length of area surveyed: 1500 ft (specify units, e.g., miles = mi, kilometers = km, meters = m)

Vegetation Characteristics: Overall, are the species in tree/shrub layer at this site comprised predominantly of (check one):

- ☐ Native broadleaf plants (entirely or almost entirely, includes high-elevation willow)
☐ Mixed native and exotic plants (mostly native)
☐ Mixed native and exotic plants (mostly exotic)
☒ Exotic/introduced plants (entirely or almost entirely)

Identify the 2-3 predominant tree/shrub species: Tamarix ramosissima / Cercidium microphyllum

Average height of canopy (Do not put a range): 10 ft (specify units)

Was surface water or saturated soil present at or adjacent to site? (Yes) No (circle one)
 Distance from the site to surface water or saturated soil: 0 (specify units)

Did hydrological conditions change significantly among visits (did the site flood or dry out)? Yes No (circle one)
 If yes, describe in comments section below.

Remember to attach a copy of a USGS quad/topographical map (REQUIRED) of the survey area, outlining the survey site and location of WIFL detections. Also include a sketch or aerial photograph showing details of site location, patch shape, survey route in relation to patch, and location of any willow flycatchers or willow flycatcher nests detected. Such sketches or photographs are welcomed, but DO NOT substitute for the required USGS quad map. Please include photos of the interior of the patch, exterior of the patch, and overall site and describe any unique habitat features.

Comments (attach additional sheets if necessary)

The vegetation along the shoreline was removed prior to the start of the survey. Survey points 24, 25, 26, 27, 28 eliminated from previous years survey area due to lack of habitat.

WIFL Detection Locations:

Date Detected	N UTM	E UTM	Date Detected	N UTM	E UTM

Willow Flycatcher Survey and Detection Form (revised April, 2004)

Site Name Topock Compressor Station CA-1 State CA County San Bernardino
USGS Quad Name White Mountain Elevation 440 feet/meters (circle one)

Is copy of USGS map marked with survey area and WFL sightings attached (as required)? ☐ Yes ☐ No

Site Coordinates: Start: N 38 45 821 E 11 07 28 081 UTM Datum 83 (NAD27 preferred)
Stop: N 38 45 722 E 11 07 28 449 UTM Zone 11

**** Fill in additional site information on back of this page ****

Survey # Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Cowbirds Detected? Y or N	Presence of Livestock, Recent sign, If Yes, Describe Y or N	Comments about this survey (e.g., bird behavior, evidence of pairs or breeding, number of nests, nest contents or number of fledges seen, potential threats)
1 <u>Jeff</u> <u>Stemman</u>	Date <u>5/28</u> Start <u>0751</u> Stop <u>0841</u> Total hrs <u>50 min</u>	0	0	0	2	2	2	
2	Date <u>6/6</u> Start <u>0603</u> Stop <u>0647</u> Total hrs <u>44 min</u>	0	0	0	2	2	2	
3	Date <u>6/26</u> Start <u>0814</u> Stop <u>0853</u> Total hrs <u>39 min</u>	0	0	0	2	2	2	
4	Date <u>7/11</u> Start <u>0753</u> Stop <u>0829</u> Total hrs <u>36 min</u>	0	0	0	2	2	2	
5	Date <u>7/16</u> Start <u>0739</u> Stop <u>0820</u> Total hrs <u>41 min</u>	0	0	0	2	2	2	
Overall Site Summary (Total resident WFLs only)		Adults	Pairs	Territories	Nests	Were any WFLs color-banded? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form		
Total survey hrs <u>3h 32m</u>		0	0	0	0			

Reporting Individual Jeff Stemman Date Report Completed 8/15
US Fish and Wildlife Service Permit # TE-085036 AZ Game and Fish Department (or other state) Permit # SC-007081 CAL.
801

Submit original form by August 1st. Retain a copy for your records.

Fill in the following information completely. Submit original form by August 1st. Retain a copy for your records.

Reporting Individual Jeff Steinman Phone # 415 642 8969
 Affiliation Garcia and Associates E-mail garciaandassociates.com
 Site Name Topack Compressor Station CA-2 Date Report Completed _____

Did you verify that this site name is consistent with that used in previous years? Yes (circle one) No
 If name is different, what name(s) was used in the past? _____
 If site was surveyed last year, did you survey the same general area this year? Yes (circle one) No If no, summarize in comments below.
 Did you survey the same general area during each visit to this site this year? Yes (circle one) No If no, summarize in comments below.

Management Authority for Survey Area (circle one): Federal Municipal/County State Tribal Private
 Name of Management Entity or Owner (e.g., Tonto National Forest) Monterey Regional Park

Length of area surveyed: 2000 ft. (specify units, e.g., miles = mi, kilometers = km, meters = m)

Vegetation Characteristics: Overall, are the species in tree/shrub layer at this site comprised predominantly of (check one):

- ☐ Native broadleaf plants (entirely or almost entirely, includes high-elevation willow)
☐ Mixed native and exotic plants (mostly native)
☐ Mixed native and exotic plants (mostly exotic)
☒ Exotic/introduced plants (entirely or almost entirely)

Identify the 2-3 predominant tree/shrub species: Tamaria ramosissima / Acacia greggii

Average height of canopy (Do not put a range): 15ft (specify units)

Was surface water or saturated soil present at or adjacent to site? Yes (circle one) No
 Distance from the site to surface water or saturated soil: 0 (specify units)

Did hydrological conditions change significantly among visits (did the site flood or dry out)? Yes (circle one) No
 If yes, describe in comments section below.

Remember to attach a copy of a USGS quad/topographical map (REQUIRED) of the survey area, outlining the survey site and location of WIFL detections. Also include a sketch or aerial photograph showing details of site location, patch shape, survey route in relation to patch, and location of any willow flycatchers or willow flycatcher nests detected. Such sketches or photographs are welcomed, but DO NOT substitute for the required USGS quad map. Please include photos of the interior of the patch, exterior of the patch, and overall site and describe any unique habitat features.

Comments (attach additional sheets if necessary)

Part of site bulldozed and part being bulldozed. stations
21, 2, 21, 23, 24, 28, 22, 25, 26 eliminated due to lack of habitat.

WIFL Detection Locations:

Date Detected	N UTM	E UTM	Date Detected	N UTM	E UTM

Willow Flycatcher Survey and Detection Form (revised April, 2004)

Site Name Topock Compressor Station CA-2 State CA County San Bernardino
USGS Quad Name Whale Mountain Elevation 480 (feet) meters (circle one)

Is copy of USGS map marked with survey area and WFL sightings attached (as required)? ☒ Yes ☐ No

Site Coordinates: Start: N 38 45 617 E 11 07 28 053 UTM Datum 83 (NAD27 preferred)
Stop: N 38 45 638 E 11 07 28 760 UTM Zone 11

**** Fill in additional site information on back of this page ****

Survey # Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Cowbirds Detected? Y or N	Presence of Livestock, Recent signs. If Yes, Describe Y or N	Comments about this survey (e.g., bird behavior, evidence of pairs or breeding, number of nests, nest contents or number of fledglers seen; potential threats)
1 <u>Jeff Steinhilber</u>	Date <u>5/25</u> Start <u>0649</u> Stop <u>0731</u> Total hrs <u>50 min</u>	0	0	0	N	N	N	
2	Date <u>6/6</u> Start <u>0659</u> Stop <u>0730</u> Total hrs <u>31 min</u>	0	0	0	N	N	N	
3	Date <u>6/27</u> Start <u>0652</u> Stop <u>0736</u> Total hrs <u>44 min</u>	0	0	0	N	N	N	
4	Date <u>7/11</u> Start <u>0722</u> Stop <u>0743</u> Total hrs <u>21 min</u>	0	0	0	N	Y	N	
5	Date <u>7/16</u> Start <u>0603</u> Stop <u>0631</u> Total hrs <u>28 min</u>	0	0	0	N	N	N	
Overall Site Summary (Total resident WFLs only)		Adults	Pairs	Territories	Nests	Were any WFLs color-banded? Yes No		
Total survey hrs <u>2h 54 min</u>		0	0	0	0	If yes, report color combination(s) in the comments section on back of form		

Reporting Individual Jeff Steinhilber Date Report Completed 8/15
US Fish and Wildlife Service Permit # TE-085026 AZ Game and Fish Department (or other state) Permit # SK-007001 CAL
7801

Submit original form by August 1st. Retain a copy for your records.

Fill in the following information completely. Submit original form by August 1st. Retain a copy for your records.

Reporting Individual Jeff Steinman Phone # 415 642 8969
Affiliation Garcia and Associates E-mail garciaandassociates.com
Site Name Topock Compressor Station CA-3 Date Report Completed _____

Did you verify that this site name is consistent with that used in previous years? ☒ Yes ☐ No (circle one)

If name is different, what name(s) was used in the past? _____

If site was surveyed last year, did you survey the same general area this year? ☒ Yes ☐ No If no, summarize in comments below.

Did you survey the same general area during each visit to this site this year? ☒ Yes ☐ No If no, summarize in comments below.

Management Authority for Survey Area (circle one): ☒ Federal ☐ Municipal/County ☐ State ☐ Tribal ☐ Private

Name of Management Entity or Owner (e.g., Tonto National Forest) BLM

Length of area surveyed: 500 ft (specify units, e.g., miles = mi, kilometers = km, meters = m)

Vegetation Characteristics: Overall, are the species in tree/shrub layer at this site comprised predominantly of (check one):

☐ Native broadleaf plants (entirely or almost entirely, includes high-elevation willow)

☐ Mixed native and exotic plants (mostly native)

☒ Mixed native and exotic plants (mostly exotic)

☐ Exotic/introduced plants (entirely or almost entirely)

Identify the 2-3 predominant tree/shrub species: Tamaria Ruminosa / Acacia greggii

Average height of canopy (Do not put a range): 10 ft (specify units)

Was surface water or saturated soil present at or adjacent to site? ☒ Yes ☐ No (circle one)

Distance from the site to surface water or saturated soil: 0 (specify units)

Did hydrological conditions change significantly among visits (did the site flood or dry out)? ☒ Yes ☐ No (circle one)

If yes, describe in comments section below.

Remember to attach a copy of a USGS quad/topographical map (REQUIRED) of the survey area, outlining the survey site and location of WIFL detections. Also include a sketch or aerial photograph showing details of site location, patch shape, survey route in relation to patch, and location of any willow flycatchers or willow flycatcher nests detected. Such sketches or photographs are welcomed, but DO NOT substitute for the required USGS quad map. Please include photos of the interior of the patch, exterior of the patch, and overall site and describe any unique habitat features.

Comments (attach additional sheets if necessary)

WIFL Detection Locations:

Date Detected	N UTM	E UTM	Date Detected	N UTM	E UTM

Willow Flycatcher Survey and Detection Form (revised April, 2004)

Site Name Topock Compressor Station CA-3 State CA County San Bernardino
USGS Quad Name Topock Elevation 446 (feet) meters (circle one)

Is copy of USGS map marked with survey area and WFL sightings attached (as required)? ☒ Yes ☐ No

Site Coordinates: Start: N 38 45 653 E 11 07 27 128 UTM Datum 83 (NAD27 preferred)
Stop: N 38 45 544 E 11 07 27 285 UTM Zone 11

**** Fill in additional site information on back of this page ****

Survey # Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Cowbirds Detected? Y or N	Presence of Livestock, Recent sign, If Yes, Describe Y or N	Comments about this survey (e.g., bird behavior, evidence of pairs or breeding, number of nests, nest contents or number of fledglings seen, potential threats)
1 <u>Jeff Steinman</u>	Date <u>5/20</u> Start <u>0803</u> Stop <u>0845</u> Total hrs <u>42 min</u>	0	0	0	N	N	N	
2	Date <u>6/5</u> Start <u>0551</u> Stop <u>0630</u> Total hrs <u>39 min</u>	0	0	0	N	N	N	
3	Date <u>6/26</u> Start <u>0638</u> Stop <u>0711</u> Total hrs <u>33 min</u>	0	0	0	N	N	N	
4	Date <u>7/10</u> Start <u>0630</u> Stop <u>0702</u> Total hrs <u>32 min</u>	0	0	0	N	N	N	
5	Date <u>7/15</u> Start <u>0753</u> Stop <u>0807</u> Total hrs <u>34 min</u>	0	0	0	N	N	N	
Overall Site Summary (Total resident WFLs only)		Adults	Pairs	Territories	Nests	Were any WFLs color-banded? Yes No If yes, report color combination(s) in the comments section on back of form		
Total survey hrs <u>3 h</u>		0	0	0	0			

Reporting Individual Jeff Steinman Date Report Completed 8/15
US Fish and Wildlife Service Permit # FE-085026 AZ Game and Fish Department (or other state) Permit # SE-003881 CM

Submit original form by August 1st. Retain a copy for your records.

Fill in the following information completely. Submit original form by August 1st. Retain a copy for your records.

Reporting Individual Jeff Stemman Phone # 415 642 8969
Affiliation Garcia and Associates E-mail garciaandassociates.com
Site Name Topock Compressor Station CA-4 Date Report Completed _____

Did you verify that this site name is consistent with that used in previous years? (Yes) No (circle one)

If name is different, what name(s) was used in the past? _____

If site was surveyed last year, did you survey the same general area this year? (Yes) No If no, summarize in comments below.

Did you survey the same general area during each visit to this site this year? (Yes) No If no, summarize in comments below.

Management Authority for Survey Area (circle one): (Federal) Municipal/County State Tribal Private

Name of Management Entity or Owner (e.g., Tonto National Forest) BLM

Length of area surveyed: 300 ft (specify units, e.g., miles = mi, kilometers = km, meters = m)

Vegetation Characteristics: Overall, are the species in tree/shrub layer at this site comprised predominantly of (check one):

☐ Native broadleaf plants (entirely or almost entirely, includes high-elevation willow)

☐ Mixed native and exotic plants (mostly native)

☒ Mixed native and exotic plants (mostly exotic)

☐ Exotic/introduced plants (entirely or almost entirely)

Identify the 2-3 predominant tree/shrub species: Tamaria Ramorissima / Acacia greggii

Average height of canopy (Do not put a range): 15 ft. (specify units)

Was surface water or saturated soil present at or adjacent to site? (Yes) No (circle one)

Distance from the site to surface water or saturated soil: 4 (specify units)

Did hydrological conditions change significantly among visits (did the site flood or dry out)? Yes (No) (circle one)

If yes, describe in comments section below.

Remember to attach a copy of a USGS quad/topographical map (REQUIRED) of the survey area, outlining the survey site and location of WIFL detections. Also include a sketch or aerial photograph showing details of site location, patch shape, survey route in relation to patch, and location of any willow flycatchers or willow flycatcher nests detected. Such sketches or photographs are welcomed, but DO NOT substitute for the required USGS quad map. Please include photos of the interior of the patch, exterior of the patch, and overall site and describe any unique habitat features.

Comments (attach additional sheets if necessary)

WIFL Detection Locations:

Date Detected	N UTM	E UTM	Date Detected	N UTM	E UTM

Willow Flycatcher Survey and Detection Form (revised April, 2004)

Site Name Topock Compressor Station CA-4 State CA County San Bernardino
USGS Quad Name Topock Elevation 520 (feet) meters (circle one)

Is copy of USGS map marked with survey area and WFL sightings attached (as required)? ☒ Yes ☐ No

Site Coordinates: Start: N 38 45 150 E 11 07 29 384 UTM Datum 83 (NAD27 preferred)
Stop: N 38 45 317 E 11 07 29 537 UTM Zone 11

**** Fill in additional site information on back of this page ****

Survey # Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Cowbirds Detected? Y or N	Presence of Livestock, Recent sign, If Yes, Describe Y or N	Comments about this survey (e.g., bird behavior, evidence of pairs or breeding, number of nests, nest contents or number of fledglings seen, potential threats)
1 <u>Jeff Steinhilber</u>	Date <u>6/03</u> Start <u>0545</u> Stop <u>0643</u> Total hrs <u>58 min</u>	0	0	0	N	N	N	
2	Date <u>6/5</u> Start <u>0731</u> Stop <u>0821</u> Total hrs <u>50 min</u>	0	0	0	N	N	N	
3	Date <u>6/26</u> Start <u>0713</u> Stop <u>0804</u> Total hrs <u>50 min</u>	0	0	0	N	N	N	
4	Date <u>7/10</u> Start <u>0706</u> Stop <u>0753</u> Total hrs <u>47 min</u>	0	0	0	N	N	N	
5	Date <u>7/15</u> Start <u>0601</u> Stop <u>0650</u> Total hrs <u>49 min</u>	0	0	0	N	N	N	
Overall Site Summary (Total resident WFLs only)		Adults	Pairs	Territories	Nests	Were any WFLs color-banded? Yes No If yes, report color combination(s) in the comments section on back of form		
Total survey hrs <u>5h 5m</u>		0	0	0	0			

Reporting Individual Jeff Steinhilber Date Report Completed 8/15
US Fish and Wildlife Service Permit # TE-025026 AZ Game and Fish Department (or other state) Permit # SC-607801 CAL

Submit original form by August 1st. Retain a copy for your records.

Fill in the following information completely. Submit original form by August 1st. Retain a copy for your records.

Reporting Individual Jeff Steinman Phone # 405 642 8969
Affiliation Garcia and Associates E-mail garciaandassociates.com
Site Name Topock Compressor Station CA-5 Date Report Completed _____

Did you verify that this site name is consistent with that used in previous years? Yes No (circle one)

If name is different, what name(s) was used in the past? _____

If site was surveyed last year, did you survey the same general area this year? Yes No If no, summarize in comments below.

Did you survey the same general area during each visit to this site this year? Yes No If no, summarize in comments below.

Management Authority for Survey Area (circle one): Federal Municipal/County State Tribal Private

Name of Management Entity or Owner (e.g., Tonto National Forest) USFWS Havasu Wildlife Refuge

Length of area surveyed: 900-ft (specify units, e.g., miles = mi, kilometers = km, meters = m)

Vegetation Characteristics: Overall, are the species in tree/shrub layer at this site comprised predominantly of (check one):

☐ Native broadleaf plants (entirely or almost entirely, includes high-elevation willow)

☐ Mixed native and exotic plants (mostly native)

☐ Mixed native and exotic plants (mostly exotic)

☒ Exotic/introduced plants (entirely or almost entirely)

Identify the 2-3 predominant tree/shrub species: Tamaria Rimosissima / Acacia greggii

Average height of canopy (Do not put a range): 10 ft. (specify units)

Was surface water or saturated soil present at or adjacent to site? Yes No (circle one)

Distance from the site to surface water or saturated soil: 0 (specify units)

Did hydrological conditions change significantly among visits (did the site flood or dry out)? Yes No (circle one)

If yes, describe in comments section below.

Remember to attach a copy of a USGS quad/topographical map (REQUIRED) of the survey area, outlining the survey site and location of WIFL detections. Also include a sketch or aerial photograph showing details of site location, patch shape, survey route in relation to patch, and location of any willow flycatchers or willow flycatcher nests detected. Such sketches or photographs are welcomed, but DO NOT substitute for the required USGS quad map. Please include photos of the interior of the patch, exterior of the patch, and overall site and describe any unique habitat features.

Comments (attach additional sheets if necessary)

WIFL Detection Locations:

Date Detected	N UTM	E UTM	Date Detected	N UTM	E UTM

Willow Flycatcher Survey and Detection Form (revised April, 2004)

Site Name Topock Compressor Station CA-5 State CA County San Bernardino
USGS Quad Name Topock Elevation 500 (feet) meters (circle one)

Is copy of USGS map marked with survey area and WFL sightings attached (as required)? ☒ Yes ☐ No

Site Coordinates: Start: N 38 44 738 E 11 07 27 889 UTM Datum 83 (NAD83 preferred)
Stop: N 38 44 458 E 11 07 27 730 UTM Zone 11

**** Fill in additional site information on back of this page ****

Survey # Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Cowbirds Detected? Y or N	Presence of Livestock, Recent signs, If Yes, Describe Y or N	Comments about this survey (e.g., bird behavior, evidence of pairs or breeding, number of nests, nest contents or number of fledglings seen, potential threats)
1 <u>Jeff Steinman</u>	Date <u>5/30</u> Start <u>0543</u> Stop <u>0646</u> Total hrs <u>1hr 3mi</u>	0	0	0	N	N	N	
2	Date <u>6/6</u> Start <u>0756</u> Stop <u>0830</u> Total hrs <u>59mi</u>	0	0	0	N	N	N	
3	Date <u>6/27</u> Start <u>0740</u> Stop <u>0831</u> Total hrs <u>51mi</u>	0	0	0	N	N	N	
4	Date <u>7/11</u> Start <u>0653</u> Stop <u>0717</u> Total hrs <u>44mi</u>	0	0	0	N	N	N	
5	Date <u>7/16</u> Start <u>0635</u> Stop <u>0730</u> Total hrs <u>55mi</u>	0	0	0	N	Y	N	
Overall Site Summary (Total resident WFLs only)		Adults	Pairs	Territories	Nests	Were any WFLs color-banded? Yes No		
Total survey hrs <u>4hr 27m</u>		0	0	0	0	If yes, report color combination(s) in the comments section on back of form		

Reporting Individual Jeff Steinman Date Report Completed 8/15
US Fish and Wildlife Service Permit # TE-035026 AZ Game and Fish Department (or other state) Permit # SC 007801 CAL

Submit original form by August 1st. Retain a copy for your records.

Fill in the following information completely. Submit original form by August 1st. Retain a copy for your records.

Reporting Individual Jeff Strimman Phone # 415 648 8969
Affiliation Garcia and Associates E-mail garciaandassociates.com
Site Name Topock Compressor Station CA-6 Date Report Completed _____

Did you verify that this site name is consistent with that used in previous years? Yes No (circle one)

If name is different, what name(s) was used in the past?

If site was surveyed last year, did you survey the same general area this year? Yes No If no, summarize in comments below.

Did you survey the same general area during each visit to this site this year? Yes No If no, summarize in comments below.

Management Authority for Survey Area (circle one): Federal Municipal/County State Tribal Private
Name of Management Entity or Owner (e.g., Tonto National Forest) BLM

Length of area surveyed: 500 ft (specify units, e.g., miles = mi, kilometers = km, meters = m)

Vegetation Characteristics: Overall, are the species in tree/shrub layer at this site comprised predominantly of (check one):

- ☐ Native broadleaf plants (entirely or almost entirely, includes high-elevation willow)
☐ Mixed native and exotic plants (mostly native)
☒ Mixed native and exotic plants (mostly exotic)
☐ Exotic/introduced plants (entirely or almost entirely)

Identify the 2-3 predominant tree/shrub species: Tamaria ramosissima / Acacia greggii / Cercidium microphyllum

Average height of canopy (Do not put a range): 15 ft. (specify units)

Was surface water or saturated soil present at or adjacent to site? Yes No (circle one)

Distance from the site to surface water or saturated soil: 20 ft (specify units)

Did hydrological conditions change significantly among visits (did the site flood or dry out)? Yes No (circle one)
If yes, describe in comments section below.

Remember to attach a copy of a USGS quad/topographical map (REQUIRED) of the survey area, outlining the survey site and location of WIFL detections. Also include a sketch or aerial photograph showing details of site location, patch shape, survey route in relation to patch, and location of any willow flycatchers or willow flycatcher nests detected. Such sketches or photographs are welcomed, but DO NOT substitute for the required USGS quad map. Please include photos of the interior of the patch, exterior of the patch, and overall site and describe any unique habitat features.

Comments (attach additional sheets if necessary)

WIFL Detection Locations:

Date Detected	N UTM	E UTM	Date Detected	N UTM	E UTM

Willow Flycatcher Survey and Detection Form (revised April, 2004)

Site Name Topock Compressor Station CA-6 State CA County San Bernardino
USGS Quad Name Topock Elevation 480 feet (meters (circle one))

Is copy of USGS map marked with survey area and WFL sightings attached (as required)? ☒ Yes ☐ No

Site Coordinates: Start: N 38 45 406 E 11 07 27 101 UTM Datum 83 (NAD27 preferred)
Stop: N 38 45 444 E 11 07 27 250 UTM Zone 11

**** Fill in additional site information on back of this page ****

Survey # Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Cowbirds Detected? Y or N	Presence of Livestock, Recent signs, If Yes, Describe Y or N	Comments about this survey (e.g., bird behavior, evidence of pairs or breeding, number of nests, nest contents or number of fledglings seen, potential threats)
1 Jeff Stearman	Date 5/30 Start 0658 Stop 0703 Total hrs 45 min	0	0	0	N	N	No	
2	Date 6/5 Start 0630 Stop 0723 Total hrs 53 min	0	0	0	N	N	No	
3	Date 7/16 Start 0550 Stop 0638 Total hrs 48 min	0	0	0	N	N	Yes Burro	
4	Date 7/10 Start 0542 Stop 0620 Total hrs 48	0	0	0	N	N	Yes Burro	
5	Date 7/15 Start 0655 Stop 0735 Total hrs 38 min	0	0	0	N	N	Yes Burro	
Overall Site Summary (Total resident WFLs only)		Adults	Pairs	Territories	Nests	Were any WFLs color-banded? Yes No If yes, report color combination(s) in the comments section on back of form		
Total survey hrs 4h 12m		0	0	0	0			

Reporting Individual Jeff Stearman Date Report Completed 8/15
US Fish and Wildlife Service Permit # TE-085026 AZ Game and Fish Department (or other state) Permit # 003801 CAL.

Submit original form by August 1st. Retain a copy for your records.

Appendix D

Call Points and UTM Coordinates

Call Point	Northing	Easting
Site CA1		
1	34.7287023	114.5086978
1A	34.7283877	114.5082587
1B	34.7290362	114.5082202
1C (eliminated 2008)	34.7283767	114.5077127
1D	34.7288573	114.5076507
1E	34.7285071	114.5070372
1F (eliminated 2008)	34.7281293	114.5067438
1G	34.7283547	114.5066217
1H	34.7283437	114.5060757
1I	34.7283693	114.5055359
1J	34.7280777	114.5049927
1K	34.7290484	114.5089878
1L (eliminated 2008)	34.7280077	114.5055517
1M (eliminated 2008)	34.728179	114.5073177
1N (eliminated 2008)	34.7280152	114.5062765
Site CA2		
2A (eliminated 2008)	34.7271701	114.5072564
2B (eliminated 2008)	34.7270027	114.5066627
2C	34.7267487	114.5060653
2D (eliminated 2008)	34.7268256	114.5055053
2E (eliminated 2008)	34.7267972	114.5051156
2F	34.726769	114.5044044
2G (eliminated 2008)	34.7269073	114.5038429
2I (eliminated 2008)	34.7269448	114.5081916
2J (eliminated 2008)	34.7269087	114.5077567
2K	34.7270438	114.5034344
2L	34.727109	114.502874
2M	34.7272046	114.5016267
2N	34.7272409	114.5021941
2O	34.7265482	114.5038114
Site CA3		
3	34.7266066	114.4968334
3A	34.7264137	114.4964485
3B	34.7269123	114.4964092
3C	34.7262786	114.4959193
3D	34.7271437	114.4968306
3E	34.7276294	114.4970733

Call Point	Northing	Easting
3F	34.7272984	114.4976113
3G	34.7262869	114.4968244
Site CA4		
4D	34.7234366	114.4945918
4E	34.7241494	114.4948672
4F	34.7240427	114.4941947
4G	34.7246473	114.4943451
4H	34.7241802	114.4932324
4I	34.7244817	114.4936357
4L	34.7236327	114.4931157
4M	34.7230606	114.4948162
4N	34.7231627	114.4952587
4O	34.7237292	114.4952113
4P	34.722715	114.4949501
4Q	34.7237269	114.4939468
Site CA5		
5	34.7167161	114.4895676
5A	34.7163575	114.4891762
5B	34.717273	114.4889426
5C	34.717695	114.4891746
5D	34.7177678	114.4887486
5E	34.7185247	114.4889027
5F	34.7172167	114.4884643
5G	34.7174399	114.4883834
5H	34.7168767	114.4881948
5I	34.7184326	114.4895547
5J	34.7188832	114.4895511
5K	34.7180249	114.4897361
Site CA6		
6	34.724471	114.4973025
6A	34.7249002	114.4974595
6B	34.7249037	114.4969708
6C	34.7254506	114.4968827
6J	34.7253937	114.4963377
6K	34.7250157	114.4963497
6R	34.7253507	114.4974186
6S	34.7250823	114.4979739
Site A		
A1	34.720193	114.4869984

Call Point	Northing	Easting
A10	34.7227959	114.4865362
A11	34.7232189	114.4864155
A12	34.7237988	114.4865631
A13	34.7242722	114.4861577
A14	34.7246916	114.4863712
A15	34.7250658	114.4865683
A16	34.7253807	114.4869605
A17	34.7257065	114.4873952
A18	34.7260185	114.4878299
A19	34.7263354	114.488326
A2	34.7196456	114.4861564
A20	34.726718	114.4887242
A21	34.7271551	114.4888669
A22	34.7274569	114.488989
A23	34.7277959	114.4892613
A24	34.728089	114.489507
A25	34.7285576	114.4894346
A26	34.7289766	114.4899624
A27	34.7295078	114.4902939
A28	34.729875	114.4904642
A29	34.7296709	114.490006
A3	34.7203015	114.4853867
A30	34.7304525	114.4920946
A31	34.7305431	114.4903565
A32	34.7303194	114.4908694
A33	34.730053	114.4916106
A35	34.7310743	114.4927285
A36	34.7313701	114.4920116
A37	34.7319069	114.4917183
A38	34.7316184	114.4909052
A39	34.7320004	114.4906932
A4	34.7214798	114.4855149
A40	34.7209055	114.4853451
A41	34.7202607	114.4864104
A42	34.7196133	114.4854915
A43	34.7205603	114.4849893
A44	34.721329	114.4849859
A6	34.7219756	114.4855115

Call Point	Northing	Easting
A7	34.722068	114.4846749
A8	34.7224913	114.4851773
A9	34.7227674	114.4857807