

**SOUTHWESTERN WILLOW FLYCATCHER
PRESENCE/ABSENCE SURVEYS FOR THE PG&E TOPOCK
COMPRESSOR STATION EXPANDED GROUNDWATER
EXTRACTION AND TREATMENT SYSTEM**



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Acronyms

APE	Area of Potential Effects
AZBV	Arizona Bell's vireo
BHCO	brown-headed cowbird
BLM	United States Bureau of Land Management
GANDA	Garcia and Associates
PG&E	Pacific Gas and Electric Company
SWFL	Southwestern willow flycatcher
USFWS	United States Fish and Wildlife Service

Introduction

Garcia and Associates (GANDA) conducted a protocol survey for the southwestern willow flycatcher (SWFL) (*Epidonax trailii extimus*) for Pacific Gas and Electric (PG&E) near the Topock Compressor Station. The purpose of the survey was to determine the presence or absence of the federally- and State of California-threatened SWFL. The survey followed the protocol outlined in *A Southwestern Willow Flycatcher Natural History and Survey Protocol* (Sogge *et al.* 1997) including the changes outlined in the 2000 United States Fish and Wildlife Service (USFWS) revision (USFWS 2000). This report is intended to fulfill the Bureau of Land Management's (BLM's) wildlife stipulation number 28 as part of the Interim Measures No. 3 facility approval. This stipulation states:

Riparian areas surrounding the proposed action site will be surveyed for southwestern willow flycatchers according to the protocol established by the U. S. Fish and Wildlife Service. These surveys will be completed each year by a biologist permitted by the U. S. Fish and Wildlife Service to carry out flycatcher surveys until the action has been completed and all facilities have been removed. Reports will be provided to the biologists in the BLM Lake Havasu Field Office on an annual basis.

No SWFLs were found within the survey area. The following report describes the survey methods, findings, and conclusions.

Site Description

The survey area consisted of seven sites totaling 80 acres surrounding the Topock Compressor Station. The compressor station is located adjacent to the Colorado River, 15 miles southeast of Needles, California, in San Bernardino County. The survey area was not located within designated critical habitat for the SWFL. The sites were located on either side of the Colorado River, in San Bernardino County, California, and Mojave County, Arizona. The largest of the seven sites was in Arizona on the Havasu National Wildlife Refuge. The other six sites were all located in California, with three sites on BLM land, two sites in the Moabi Regional Park, and one site in the California portion of the Havasu National Wildlife Refuge, as shown on Figures 1-5. Survey sites varied in elevation from 400 to 500 feet above mean sea level.

Vegetation, Habitat Quality, and Wildlife

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

Figure 1. Map of all Southwestern Willow Flycatcher Survey Sites

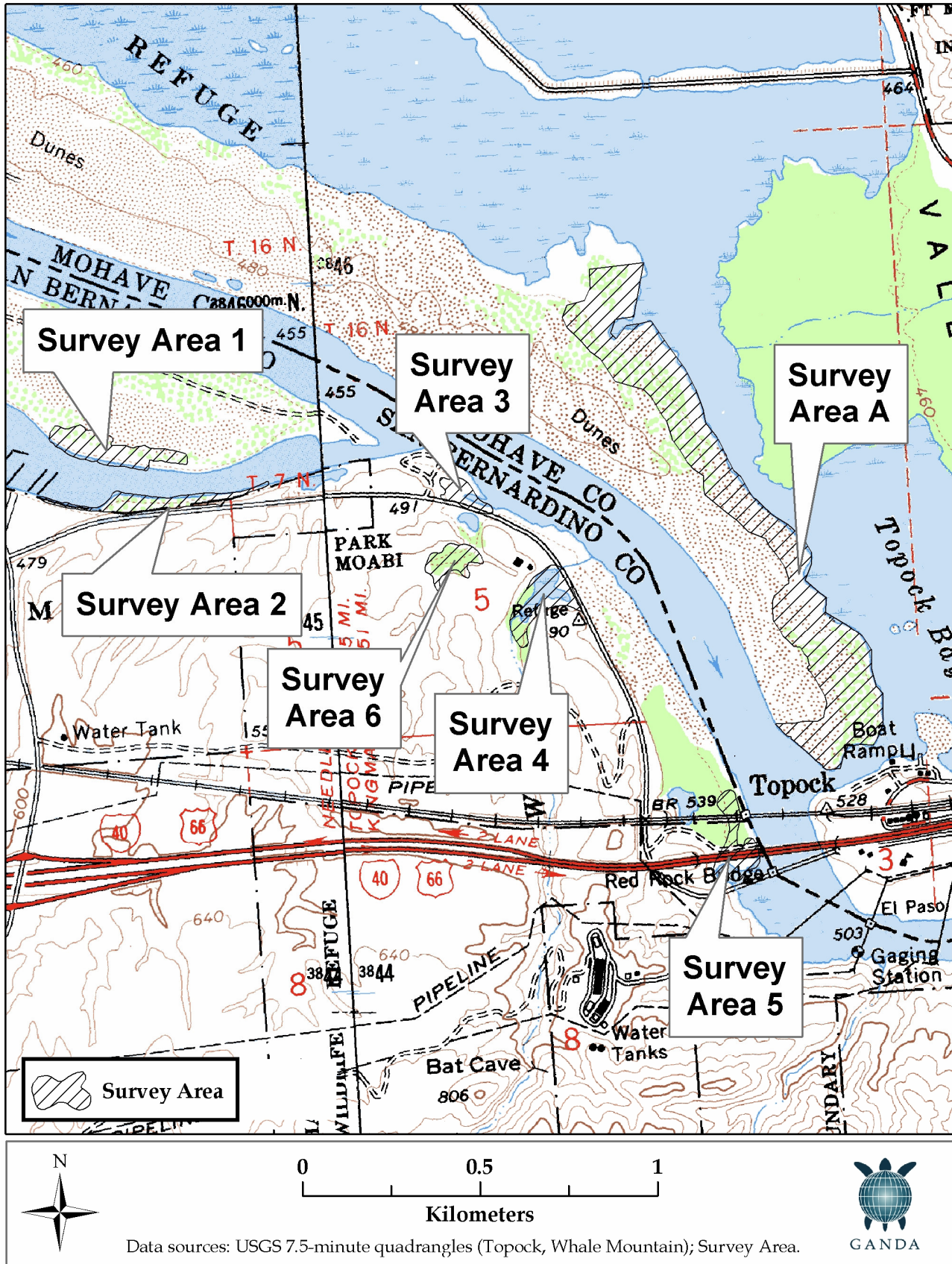


Figure 2. Map of Survey Areas 1 and 2

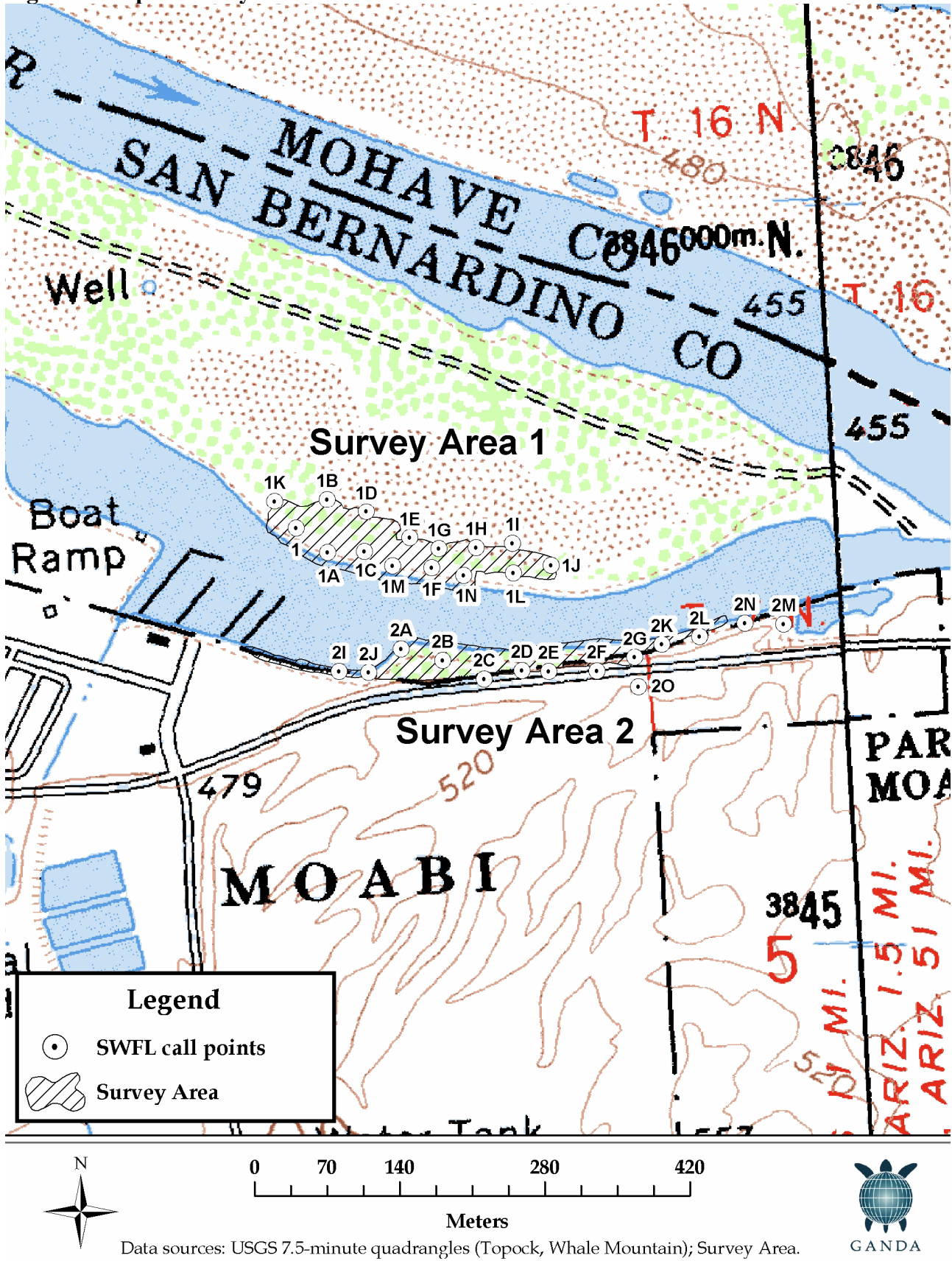


Figure 3. Map of Survey Areas 3, 4 and 6

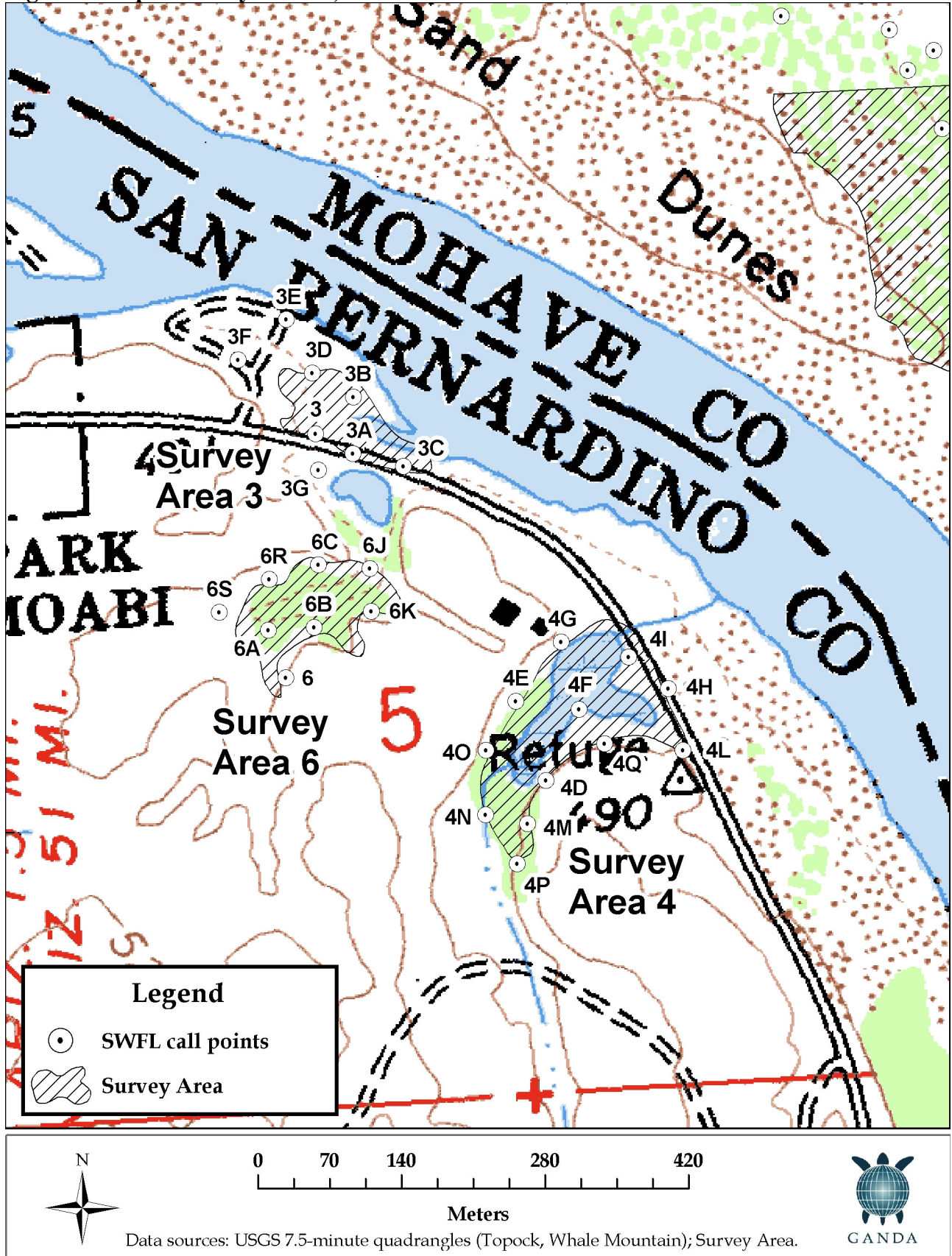


Figure 4. Map of Survey Area 5

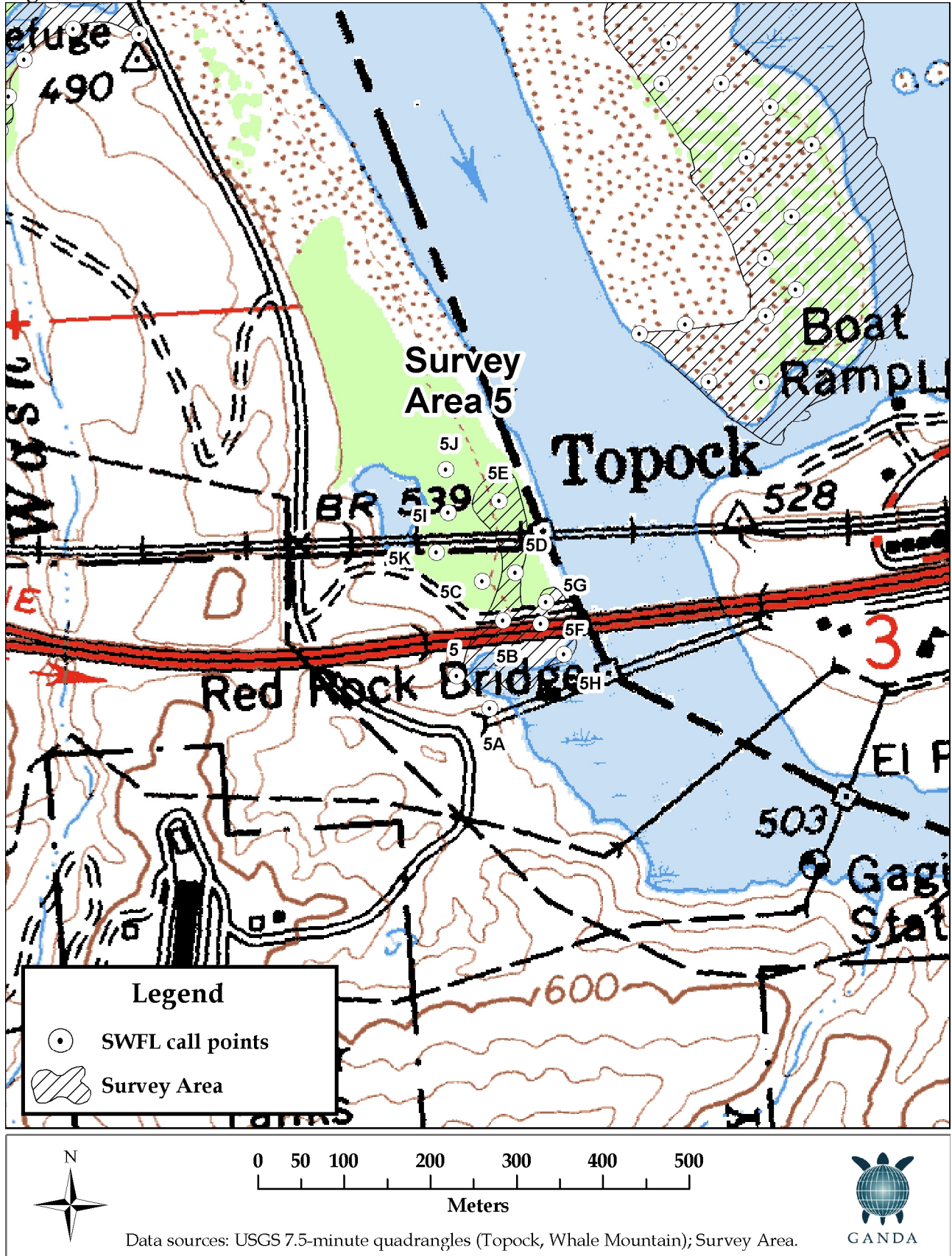
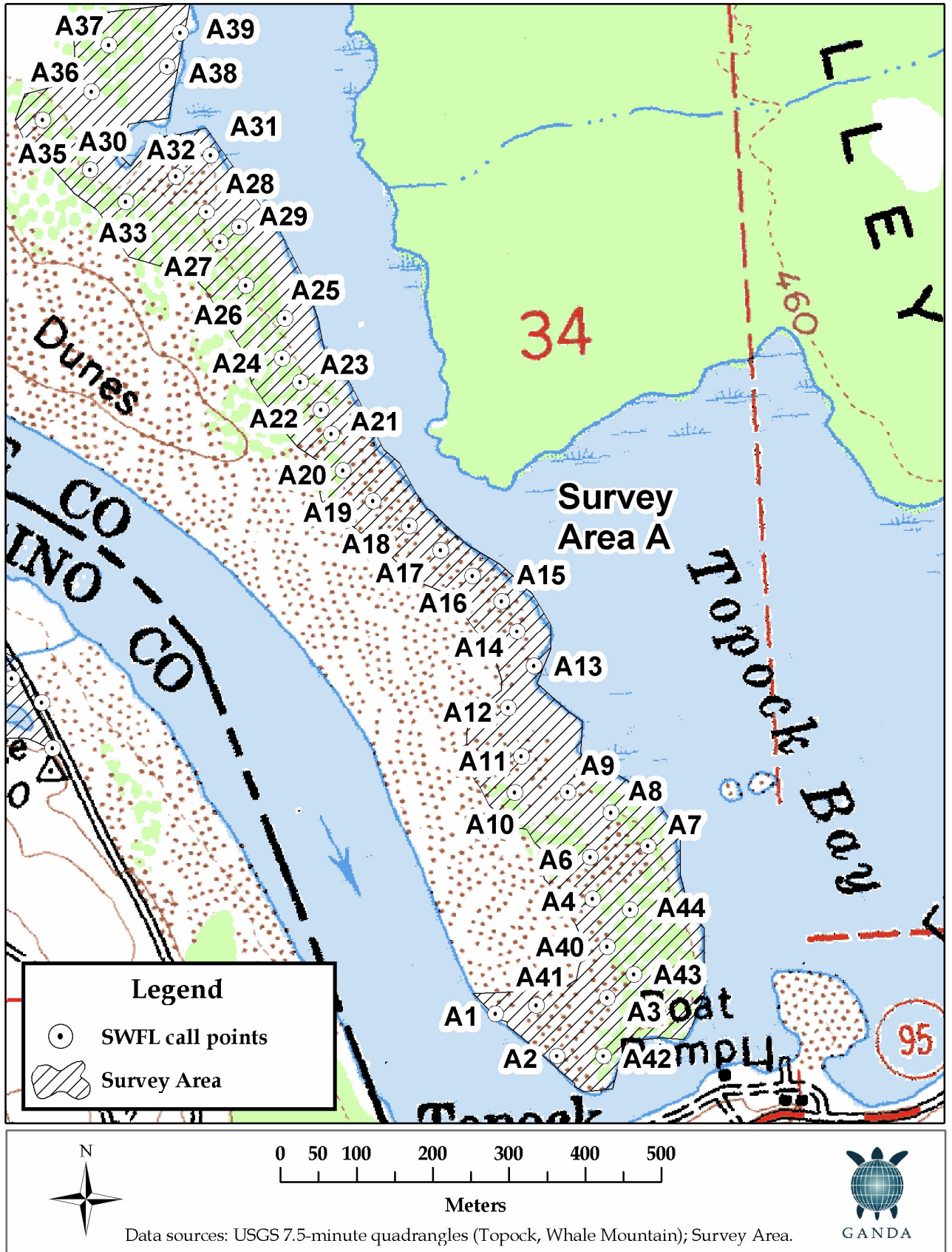


Figure 5. Map of Survey Area A



Habitat Quality

The Colorado River provided the survey sites with two of the characteristics required for suitable SWFL habitat: the presence of standing surface water throughout the breeding season and a suitable vegetation composition. However, two factors that may detract from the overall quality of the habitat were habitat fragmentation and human activity. The California sites (sites 1-6) were small and geographically isolated by the desert, Park Moabi Drive, and the Colorado River. Additionally, their proximity to Park Moabi, Interstate 40, the Burlington Northern Santa Fe Railway, and the PG&E Topock Compressor Station may have resulted in a high level of human activity. The Arizona site (Site A) was located on a large peninsula bordered in part by contiguous riparian habitat and a bulrush-dominated marsh; however, it was also adjacent to the Topock Marina, a community of a dozen houses, and the Colorado River. Watercraft were frequently observed on the Colorado River and may also contribute to human activity. A photo of each survey site is located in Appendix B.

Wildlife

A variety of wildlife species were observed during the SWFL survey. The type and number of wildlife species encountered in the survey areas were influenced by the surrounding habitats of 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 beaver (*Castor canadensis*), black-tailed jackrabbit (*Lepus californicus*), 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 encountered are included in Appendix A.

Two significant observations were the detections of both the Arizona Bell's vireo (*Vireo bellii arizonae* [AZBV]) and brown-headed cowbird (*Molothrus ater* [BHCO]).

Two detections of AZBV occurred in the Arizona survey area. Although this species has no Arizona or federal protective status, it is an endangered species in California. The first detection occurred in the middle of the survey area on July 9, and the second occurred at its northern end on July 14. This is the second year that AZBV have been detected at these locations.

BHCO were observed at every site in the project area. BHCO are known nest parasites of SWFL and other songbirds, and their presence may be reducing SWFL presence in the area.

Survey Methods

GANDA wildlife biologist Jeff Steinman (USFWS permit #TE-085026 and Arizona Game and Fish Department Permit #SP-716513) conducted the SWFL surveys, following the protocol outlined by Sogge (1997) and protocol revision prepared by the USFWS (USFWS 2000). This protocol revision for project-related surveys recommends that five

surveys be conducted during three survey periods, with three of the surveys occurring during the last survey period. These three periods are from May 15 to 31, June 1 to 21, and June 22 to July 17. Mr. Steinman conducted the SWFL surveys from May 15 to 18, June 1 to 4, June 26 to 28, July 6 to 9, and July 14 to 16. All surveys were conducted between 4:30 a.m. and 10:00 a.m. hours.

The survey area was the same as surveyed in the 2005, with the exception of call points 2 and 2H in the northern portion of Survey Area 2 that were eliminated due to the vegetation in the area having been removed. Although not observed, it is assumed that the vegetation removal was performed by Park Moabi staff.

The SWFL survey area extended beyond the northeastern Area of Potential Effects (APE) boundary. This is due to suitable habitat being contiguous beyond the APE and meriting an increased survey area (Figure 5).

The survey method consisted of using a portable tape player to broadcast SWFL calls from call points established during the 2005 survey. To establish a standardized methodology, 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 for each survey year and that call points were not placed greater than 30 to 50 meters apart. The placement and distance between call points varied depending on the quality of the habitat, thickness of vegetation and accessibility. The call points were located in 2006 using a GPS unit containing their UTM coordinates See Appendix C for a complete list of call points and UTM coordinates, and see Figure 1 for a map of all survey sites.

At each survey area, the surveyor spent ten minutes listening for the presence of any singing males. After this initial listening period, SWFL “fitz-bew” calls were broadcasted at each call point for a 30-second period that was immediately followed by a 60-second listening period. The broadcasting and listening intervals were repeated for three to five minutes at each call point before proceeding to the next point. The start time of each survey area and order in which the call points were surveyed were intentionally varied from one visit to the next to reduce bias.

Results

No SWFL were detected in the survey area during the 2006 protocol survey.

Conclusions

In the event that this species is found to be occupying the APE in the future, protective measures should be implemented to avoid or minimize potential impacts to the SWFL. These include, but are not limited to, an education program for all personnel working within the survey area boundaries, continued surveying of the project area during the breeding season, and contacting a qualified biologist should a potential SWFL be suspected.

References

Smith, A.B., P.E.T. Dockens, A.A. Tudor, H.C. English, B.L. Allen. 2004. *Southwestern Willow Flycatcher 2003 Survey and Nest Monitoring Report*. Arizona Game and Fish Department, Phoenix.

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.

SWCA Environmental Consultants. 2004. *Southwestern Willow Flycatcher Surveys, Demography, and Ecology Along the Lower Colorado River and Tributaries*. Annual Report. February 2004.

United States Fish and Wildlife Service (USFWS). 2000. *Southwestern Willow Flycatcher Protocol Revision 2000*. July 11, 2000

Appendix A

Photographs

Site 1



Site 2



Site 3



Site 4



Site 5



Site 6



Site A

Appendix B

Incidental Plant and Vertebrate Species

Incidental Plant Species

Common Name	Latin Name
Arrowweed	<i>Plucha 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> var. <i>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>
Cattail	<i>Typha angustifolia</i>
Ironwood	<i>Olneya tesota</i>

Incidental Mammals and Reptiles

Common Name	Scientific Name
Kit Fox	<i>Vulpes macrotis</i>
Coyote	<i>Canis latrans</i>
Desert Cottontail	<i>Sylvilagus audubonii</i>
Black-tailed Jackrabbit	<i>Lepus californicus</i>
Beaver	<i>Castor canadensis</i>
Desert Iguana	<i>Dipsosaurus dorsalis</i>
Side-blotched Lizard	<i>Uta stansburiana</i>
Western Whiptail	<i>Cnemidophorus tigris</i>

Incidental Bird Species

Common Names	Scientific Names
Canada Goose	<i>Branta canadensis</i>
Mallard	<i>Anas platyrhynchos</i>
Ruddy Duck	<i>Oxyura jamaicensis</i>
Gambel's Quail	<i>Callipepla gambelii</i>
Clark's Grebe	<i>Aechmophorus clarkia</i>
Double-Crested Cormorant	<i>Phalacrocorax auritus</i>
Least Bittern	<i>Ixobrychus exilis</i>
Great Blue Heron	<i>Ardea herodias</i>
Green Heron	<i>Butorides virescens</i>
Great Egret	<i>Ardea alba</i>
White-Faced Ibis	<i>Plegadis chihi</i>
Turkey Vulture	<i>Cathartes aura</i>
Osprey	<i>Pandion haliaetus</i>
American Kestrel	<i>Falco sparverius</i>
American Coot	<i>Fulica americana</i>
Killdeer	<i>Charadrius vociferous</i>
Caspian Tern	<i>Sterna caspia</i>
Rock Pigeon	<i>Columba livia</i>
Common-Ground Dove	<i>Columbina passerina</i>
White-Winged Dove	<i>Zenaida asiatica</i>
Mourning Dove	<i>Zenaida macroura</i>
Inca Dove	<i>Columbina inca</i>
Greater Roadrunner	<i>Geococcyx californianus</i>
Lesser Nighthawk	<i>Chordeiles acutipennis</i>
Black-Chinned Hummingbird	<i>Archilochus alexandri</i>
Anna's Hummingbird	<i>Calypte anna</i>
Ladder-Backed Woodpecker	<i>Picoides scalaris</i>
Black Phoebe	<i>Sayornis nigricans</i>
Say's Phoebe	<i>Sayornis saya</i>
Ash-Throated Flycatcher	<i>Myiarchus cinerascens</i>
Western Kingbird	<i>Tyrannus verticalis</i>
Loggerhead Shrike	<i>Lanius ludovicianus</i>
Bell's Vireo	<i>Vireo bellii</i>
Common Raven	<i>Corvus corax</i>
Northern Rough-Winged Swallow	<i>Stelgidopteryx serripennis</i>
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>
Verdin	<i>Auriparus flaviceps</i>
Bewick's Wren	<i>Thryomanes bewickii</i>
Marsh Wren	<i>Cistothorus palustris</i>
Black-Tailed Gnatcatcher	<i>Poliopitila melanura</i>
Crissal Thrasher	<i>Toxostoma crissale</i>
European Starling	<i>Sturnus vulgaris</i>
Wilson's Warbler	<i>Wilsonia pusilla</i>
Orange-Crowned Warbler	<i>Vermivora celata</i>
Lucy's Warbler	<i>Vermivora luciae</i>
Yellow Warbler	<i>Dendroica petechia</i>
Common Yellowthroat	<i>Geothlypis trichas</i>
Yellow-Breasted Chat	<i>Icteria virens</i>
Bushtit	<i>Psaltiriparus minimus</i>
Summer Tanager	<i>Piranga rubra</i>
Abert's Towhee	<i>Pipilo aberti</i>
Song Sparrow	<i>Melospiza melodia</i>
Rose Breasted Grosbeak	<i>Pheucticus ludovicianus</i>
Blue Grosbeak	<i>Passerina caerulea</i>
Lazuli Bunting	<i>Passerina amoena</i>
Red-Winged Blackbird	<i>Agelaius phoeniceus</i>
Yellow-Headed Blackbird	<i>Xanthocephalus xanthocephalus</i>
Great-Tailed Grackle	<i>Quiscalus mexicanus</i>
Brown-Headed Cowbird	<i>Molothrus ater</i>
Purple Finch	<i>Carpodacus purpureus</i>
Lesser Goldfinch	<i>Carduelis psaltria</i>

Appendix C

Call Points and UTM coordinates

Call Points and UTM coordinates

Call Point	Northing	Easting
Site 1		
1	34.7287023	114.5086978
1A	34.7283877	114.5082587
1B	34.7290362	114.5082202
1C	34.7283767	114.5077127
1D	34.7288573	114.5076507
1E	34.7285071	114.5070372
1F	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	34.7280077	114.5055517
1M	34.7281790	114.5073177
1N	34.7280152	114.5062765
Site 2		
2A	34.7271701	114.5072564
2B	34.7270027	114.5066627
2C	34.7267487	114.5060653
2D	34.7268256	114.5055053
2E	34.7267972	114.5051156
2F	34.7267690	114.5044044
2G	34.7269073	114.5038429
2I	34.7269448	114.5081916
2J	34.7269087	114.5077567
2K	34.7270438	114.5034344
2L	34.7271090	114.5028740
2M	34.7272046	114.5016267
2N	34.7272409	114.5021941
2O	34.7265482	114.5038114
Site 3		
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
3F	34.7272984	114.4976113
3G	34.7262869	114.4968244
Site 4		
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	34.7227150	114.4949501
4Q	34.7237269	114.4939468

Call Point	Northing	Easting
Site 5		
5	34.7167161	114.4895676
5A	34.7163575	114.4891762
5B	34.7172730	114.4889426
5C	34.7176950	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 6		
6	34.7244710	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	34.7201930	114.4869984
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	114.4883260
A2	34.7196456	114.4861564
A20	34.7267180	114.4887242
A21	34.7271551	114.4888669
A22	34.7274569	114.4889890
A23	34.7277959	114.4892613
A24	34.7280890	114.4895070
A25	34.7285576	114.4894346
A26	34.7289766	114.4899624
A27	34.7295078	114.4902939
A28	34.7298750	114.4904642
A29	34.7296709	114.4900060
A3	34.7203015	114.4853867
A30	34.7304525	114.4920946
A31	34.7305431	114.4903565
A32	34.7303194	114.4908694
A33	34.7300530	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

Call Point	Northing	Easting
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	34.7213290	114.4849859
A6	34.7219756	114.4855115
A7	34.7220680	114.4846749
A8	34.7224913	114.4851773
A9	34.7227674	114.4857807

Appendix D

Survey Forms

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

Reporting Individual Jeff Steinman Phone # 415 850 2692
Affiliation Garcia and Associates E-mail jsteinman@garciaandassociates.com
Site Name Tapack Compressor Station A22 Date Report Completed 8/1/06

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) Havard National 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, Salix exigua

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

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

Site Name Topack Compressor Station AZ1 State AZ County Mohave
 USGS Quad Name Topack 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 46 178 E 11 07 29 655 UTM Datum NAD83 (NAD27 preferred)
 Stop: N 38 44 828 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	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 Stammann</u>	Date <u>5/17</u> <u>0742-0943</u> Start <u>5/18</u> <u>0550-0854</u> Stop Total hrs <u>5.05</u>	0	0	0	N	Y	N	
2	Date <u>6/1</u> Start <u>0530</u> Stop <u>1000</u> Total hrs <u>4.30</u>	0	0	0	N	Y	N	
3	Date <u>6/27</u> <u>0737-0903</u> Start <u>6/28</u> <u>0521-0907</u> Stop Total hrs <u>5.12</u>	0	0	0	N	Y	N	
4	Date <u>7/7</u> <u>0540-0909</u> Start <u>7/9</u> <u>0547-0841</u> Stop Total hrs <u>6.23</u>	0	0	0	N	Y	N	
5	Date <u>7/14</u> Start <u>0541</u> Stop <u>0922</u> Total hrs <u>3.41</u>	0	0	0	N	Y	N	
Overall Site Summary (Total resident WIFLs only)		Adults	Pairs	Territories	Nests	Were any WIFLs color-banded? Yes No		
Total survey hrs <u>24.51</u>		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 8/1/06
 US Fish and Wildlife Service Permit # TE-085026 AZ Game and Fish Department (or other state) Permit # 52716513

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 Stevman Phone # 415 250 2672
Affiliation Garcia and Associates E-mail jstevman@garciaandassociates.com
Site Name Topeka Compressor Station CA-1 Date Report Completed 8/1/06

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) Maabou 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)

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 Topack Compressor station CA1 State CA County San Bernardino
 USGS Quad Name Whale Mountain 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 45 801 E 11 07 28 081 UTM Datum NAD83 (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 WIFLs	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 Jeff Steinman	Date 5/16 Start 0541 Stop 0652 Total hrs 1.11	0	0	0	N	Y	N	
2 Jeff Steinman	Date 6/2 Start 0600 Stop 0715 Total hrs 1.15	0	0	0	N	Y	N	
3 Jeff Steinman	Date 6/26 Start 0510 Stop 0550 Total hrs 40	0	0	0	N	N	N	
4 Jeff Steinman	Date 7/8 Start 0634 Stop 0734 Total hrs 1	0	0	0	N	N	N	
5 Jeff Steinman	Date 7/15 Start 0550 Stop 0648 Total hrs .58	0	0	0	N	Y	N	
Overall Site Summary (Total resident WIFLs only)		Adults	Pairs	Territories	Nests	Were any WIFLs color-banded? Yes No		
Total survey hrs 5.064		0	0	0	N	If yes, report color combination(s) in the comments section on back of form		

Reporting Individual Jeff Steinman Date Report Completed 8/1/06
 US Fish and Wildlife Service Permit # TE-035026 AZ Game and Fish Department (or other state) Permit # SP 716513

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 Steverson Phone # 415 250 2692
 Affiliation Garcia and Associates E-mail jsteverson@garciaandassociates.com
 Site Name Topack Compressor Station CA-2 Date Report Completed 8/1/06

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) Marin 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: Tamarix canopisiformis, 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: 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 Topack Compressor Station CA 2 State CA County San Bernadino
 USGS Quad Name Whale Mountain Elevation 480 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 45 617 E 11 07 28 053 UTM Datum NAD83 (NAD27 preferred)
 Stop: N 38 45 633 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 WIFLs	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 Jeff Steinman	Date 5/17 Start 0530 Stop 0647 Total hrs 1.17	0	0	0	N	N	N	
2 Jeff Steinman	Date 6/2 Start 0729 Stop 0909 Total hrs 1.40	0	0	0	N	Y	N	
3 Jeff Steinman	Date 6/27 Start 0601 Stop 0704 Total hrs 1.03	0	0	0	N	Y	N	
4 Jeff Steinman	Date 7/8 Start 0535 Stop 0631 Total hrs .54	0	0	0	N	N	N	
5 Jeff Steinman	Date 7/16 Start 0558 Stop 0645 Total hrs .47	0	0	0	N	Y	N	
Overall Site Summary (Total resident WIFLs only)		Adults	Pairs	Territories	Nests	Were any WIFLs color-banded? Yes No If yes, report color combination(s) in the comments section on back of form		
Total survey hrs	5.41	0	0	0	0			

Reporting Individual Jeff Steinman Date Report Completed 8/1/06
 US Fish and Wildlife Service Permit # TE-085006 AZ Game and Fish Department (or other state) Permit # SP 716513

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 # 415 250 2692
Affiliation Enicis and Associates E-mail jsteinman@enicisandassociates.com
Site Name Tapak Compressor Station CA3 Date Report Completed 8/1/06

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) Bureau of Land Management

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: Tamarix ramosissima, Acacia greggii

Average height of canopy (Do not put a range): 10 feet (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 Topack Compressor Station CA-3 State CA County San Bernardino
 USGS Quad Name Topack 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 45 653 E 1107 29 128 UTM Datum NAD83 (NAD27 preferred)
 Stop: N 38 45 544 E 1107 29 285 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 WIFLs	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 Steinman</u>	Date <u>5/16</u> Start <u>0735</u> Stop <u>0825</u> Total hrs <u>.50</u>	0	0	0	N	N	N	
2	Date <u>6/2</u> Start <u>0917</u> Stop <u>1000</u> Total hrs <u>.43</u>	0	0	0	N	Y	N	
3	Date <u>6/27</u> Start <u>0501</u> Stop <u>0554</u> Total hrs <u>.53</u>	0	0	0	N	N	N	
4	Date <u>7/6</u> Start <u>0831- 0903</u> Stop <u>7/8 0941-0802</u> Total hrs <u>.53</u>	0	0	0	N	Y	N	
5	Date <u>7/15</u> Start <u>0843</u> Stop <u>0923</u> Total hrs <u>.40</u>	0	0	0	N	N	N	
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 Steinman Date Report Completed 8/1/06
 US Fish and Wildlife Service Permit # TE-085026 AZ Game and Fish Department (or other state) Permit # SP 716513

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 # 415 250 2692
Affiliation Garcia and Associates E-mail jsteinman@garciaandassociates.com
Site Name Tapack Compressor Station CA4 Date Report Completed 8/1/06

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) Bureau of Land Management

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: Tamarix 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: 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 Topack Compression Station CA-4 State CA County San Bernardino
 USGS Quad Name Topack Elevation 500 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 45 150 E 11 07 09 384 UTM Datum NAD83 (NAD27 preferred)
 Stop: N 38 45 317 E 11 07 09 537 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 WIFLs	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 Steinman</u>	Date <u>5/15</u> Start <u>0600</u> Stop <u>0805</u> Total hrs <u>2.05</u>	0	0	0	N	N	N	
2	Date <u>6/3</u> <u>0703-0823</u> Start <u>6/4</u> <u>0945-0610</u> Stop Total hrs <u>1.25</u>	0	0	0	N	N	N	
3	Date <u>6/26</u> Start <u>0701</u> Stop <u>0754</u> Total hrs <u>.53</u>	0	0	0	N	Y	N	
4	Date <u>7/6</u> Start <u>0744</u> Stop <u>0830</u> Total hrs <u>.46</u>	0	0	0	N	N	N	
5	Date <u>7/15</u> Start <u>0650</u> Stop <u>0754</u> Total hrs <u>1.04</u>	0	0	0	N	Y	N	
Overall Site Summary (Total resident WIFLs only)		Adults	Pairs	Territories	Nests	Were any WIFLs color-banded? Yes No If yes, report color combination(s) in the comments section on back of form		
Total survey hrs <u>6.13</u>		0	0	0	N			

Reporting Individual Jeff Steinman Date Report Completed 8/1/06
 US Fish and Wildlife Service Permit # TE-085026 AZ Game and Fish Department (or other state) Permit # SP716513

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 # 415 250 2692
Affiliation Garcia and Associates E-mail jsteinman@garciaandassociates.com
Site Name Tapock Compressor Station CAS Date Report Completed 8/1/06

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 Havasupai National Wildlife Refuge

Length of area surveyed: 100ft. (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, Salix arizon

Average height of canopy (Do not put a range): 10ft. (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 Tapock Compressor Station CA-5 State CA County San Bernadino
 USGS Quad Name Tapock Elevation 500 (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 44 738 E 11 07 29 889 UTM Datum NAD83 (NAD27 preferred)
 Stop: N 38 44 458 E 11 07 29 930 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	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 Steinman</u>	Date <u>5/15</u> Start <u>0810</u> Stop <u>0945</u> Total hrs <u>1.35</u>	0	0	0	N	Y	N	
2	Date <u>6/4</u> Start <u>0605</u> Stop <u>0721</u> Total hrs <u>.56</u>	0	0	0	N	Y	N	
3	Date <u>6/26</u> Start <u>0758</u> Stop <u>0842</u> Total hrs <u>.44</u>	0	0	0	N	N	N	
4	Date <u>7/6</u> Start <u>0642</u> Stop <u>0740</u> Total hrs <u>.58</u>	0	0	0	N	N	N	
5	Date <u>7/16</u> Start <u>0647</u> Stop <u>0803</u> Total hrs <u>1.16</u>	0	0	0	N	N	N	
Overall Site Summary (Total resident WIFLs only)		Adults	Pairs	Territories	Nests	Were any WIFLs color-banded? Yes No If yes, report color combination(s) in the comments section on back of form		
Total survey hrs <u>5.29</u>		0	0	0	0			

Reporting Individual Jeff Steinman Date Report Completed 8/1/06
 US Fish and Wildlife Service Permit # TE-085026 AZ Game and Fish Department (or other state) Permit # SP 716513

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 # 415 250 2692
 Affiliation Garcia and Associates E-mail jsteinman@garciaandassociates.com
 Site Name Taprock Compressor Station CA 6 Date Report Completed 8/1/06

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: Tamarix 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 Topack Compressor Station CA-6 State CA County San Bernardino
 USGS Quad Name Topack Elevation 480 (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 45 406 E 11 07 27 101 UTM Datum NAD83 (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 WIFLs	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 Steinman</u>	Date <u>5/16</u> Start <u>0807</u> Stop <u>0930</u> Total hrs <u>1.02</u>	0	0	0	N	N	N	
2	Date <u>6/3</u> Start <u>0550</u> Stop <u>0705</u> Total hrs <u>1.15</u>	0	0	0	N	Y	N	
3	Date <u>6/26</u> Start <u>0758</u> Stop <u>0812</u> Total hrs <u>.44</u>	0	0	0	N	N	N	
4	Date <u>7/6</u> Start <u>0546</u> Stop <u>0640</u> Total hrs <u>.54</u>	0	0	0	N	N	N	
5	Date <u>7/15</u> Start <u>0802</u> Stop <u>0840</u> Total hrs <u>.38</u>	0	0	0	N	N	N	
Overall Site Summary (Total resident WIFLs only)		Adults	Pairs	Territories	Nests	Were any WIFLs color-banded? Yes No		
Total survey hrs <u>4.33</u>		0	0	0	N	If yes, report color combination(s) in the comments section on back of form		

Reporting Individual Jeff Steinman Date Report Completed 8/1/06
 US Fish and Wildlife Service Permit # TE-085026 AZ Game and Fish Department (or other state) Permit # SP 716513

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