



DRAFT

**Focused Surveys for the Least Bell's Vireo,
Southwestern Willow Flycatcher, and
Western Yellow-billed Cuckoo for the
Valley-Ivyglen Transmission Line Project**

Prepared for:
Southern California Edison Company

Prepared by:
AMEC Earth & Environmental, Inc.

December 2007
Project No. 6151000801





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SOUTHWESTERN WILLOW FLYCATCHER, AND
WESTERN YELLOW-BILLED CUCKOO FOR THE
VALLEY-IVYGLEN TRANSMISSION LINE PROJECT**

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1.0 INTRODUCTION

This report presents the findings of focused surveys for the Least Bell's Vireo (*Vireo bellii pusillus*), Southwestern Willow Flycatcher (*Empidonax traillii extimus*), and Western Yellow-billed Cuckoo (*Coccyzus americanus occidentalis*) at suitable habitat patches along the Valley-Ivyglen Transmission Line Project. These habitat patches occur along or near the San Jacinto River and Temescal Wash, in Riverside County, California (Figure 1). Areas considered to contain suitable habitat along the project route are:

San Jacinto River area: approximate UTM at east end of survey area: Zone 11, 477600E, 3733000N (NAD27); approximate UTM at west end of survey area: Zone 11, 476300E, 3732800N (NAD27); USGS 7.5 minute Romoland, Calif. and Lake Elsinore, Calif. quadrangles (Figure 2).

Nichols Road area (Temescal Wash): approximate UTM at north end of survey area: Zone 11, 466400E, 3730700N (NAD27); approximate UTM at south end of survey area: Zone 11, 466800E, 3729200N (NAD27); USGS 7.5 minute Lake Elsinore, Calif. quadrangle (Figure 3).

Lake Street area (Temescal Wash): approximate UTM at east end of survey area: Zone 11, 463600E, 3732000N (NAD27); approximate UTM at west end of survey area: Zone 11, 462700E, 3732300N (NAD27); USGS 7.5 minute Alberhill, Calif. quadrangle (Figure 4).

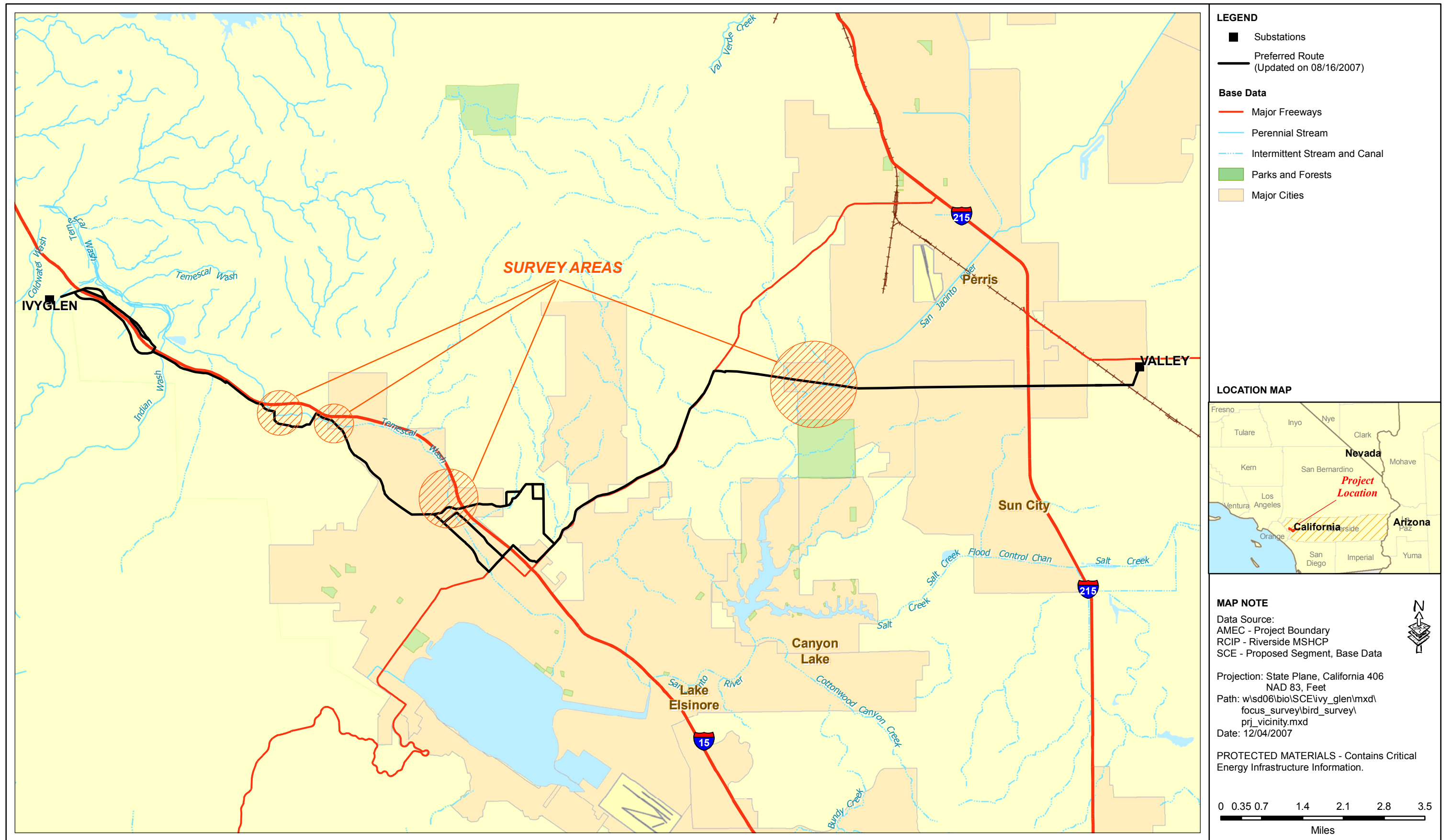
Hostettler Road area (Temescal Wash): approximate UTM at east end of survey area: Zone 11, 462700E, 3732300N (NAD27); approximate UTM at west end of survey area: Zone 11, 461400E, 3732600N (NAD27); USGS 7.5 minute Alberhill, Calif. quadrangle (Figure 5).

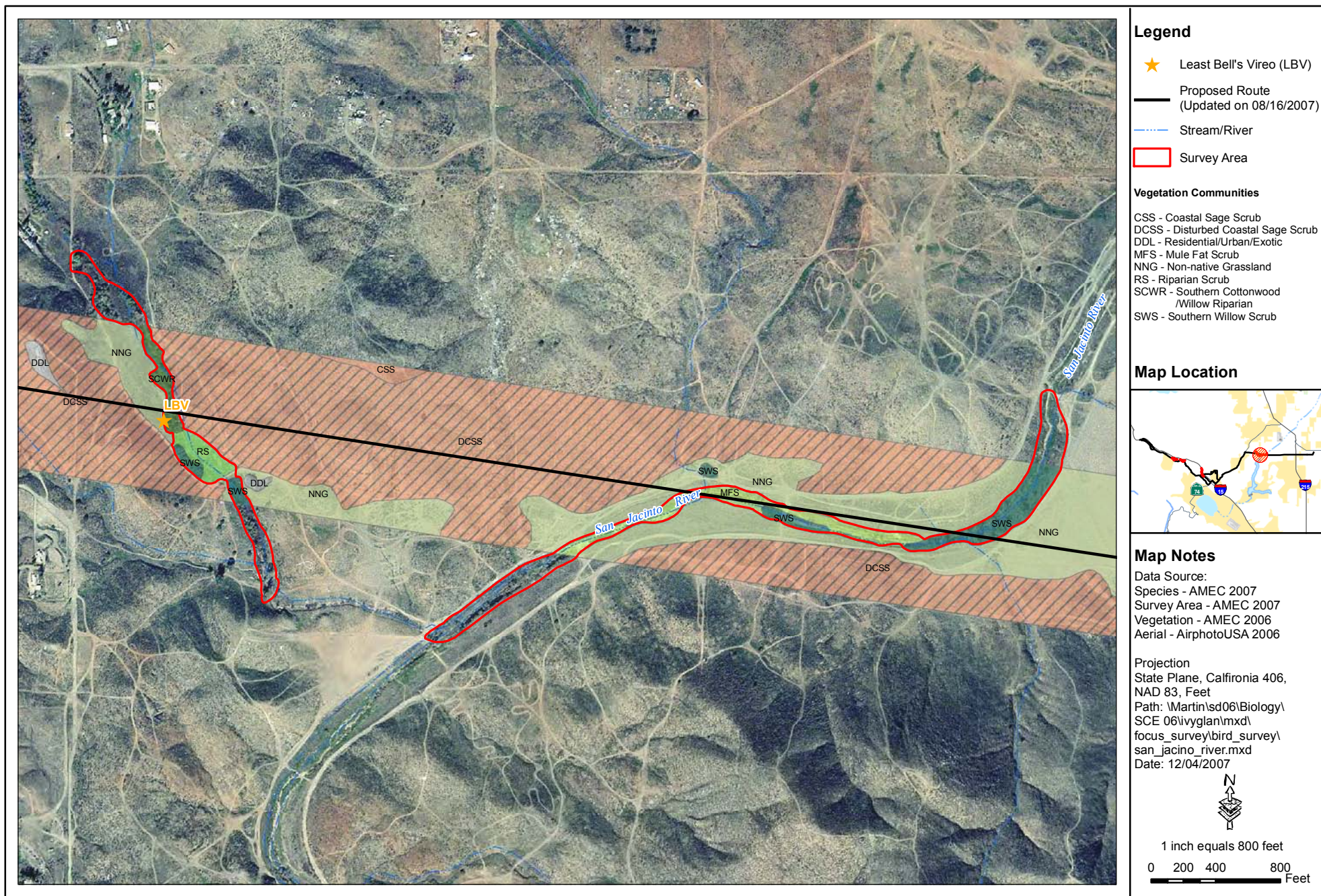
The proposed project is in the coverage area of the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP). The MSHCP is a comprehensive, multi-jurisdictional Habitat Conservation Plan (HCP) focusing on conservation of species and their associated habitats in western Riverside County.

1.1 Project Description

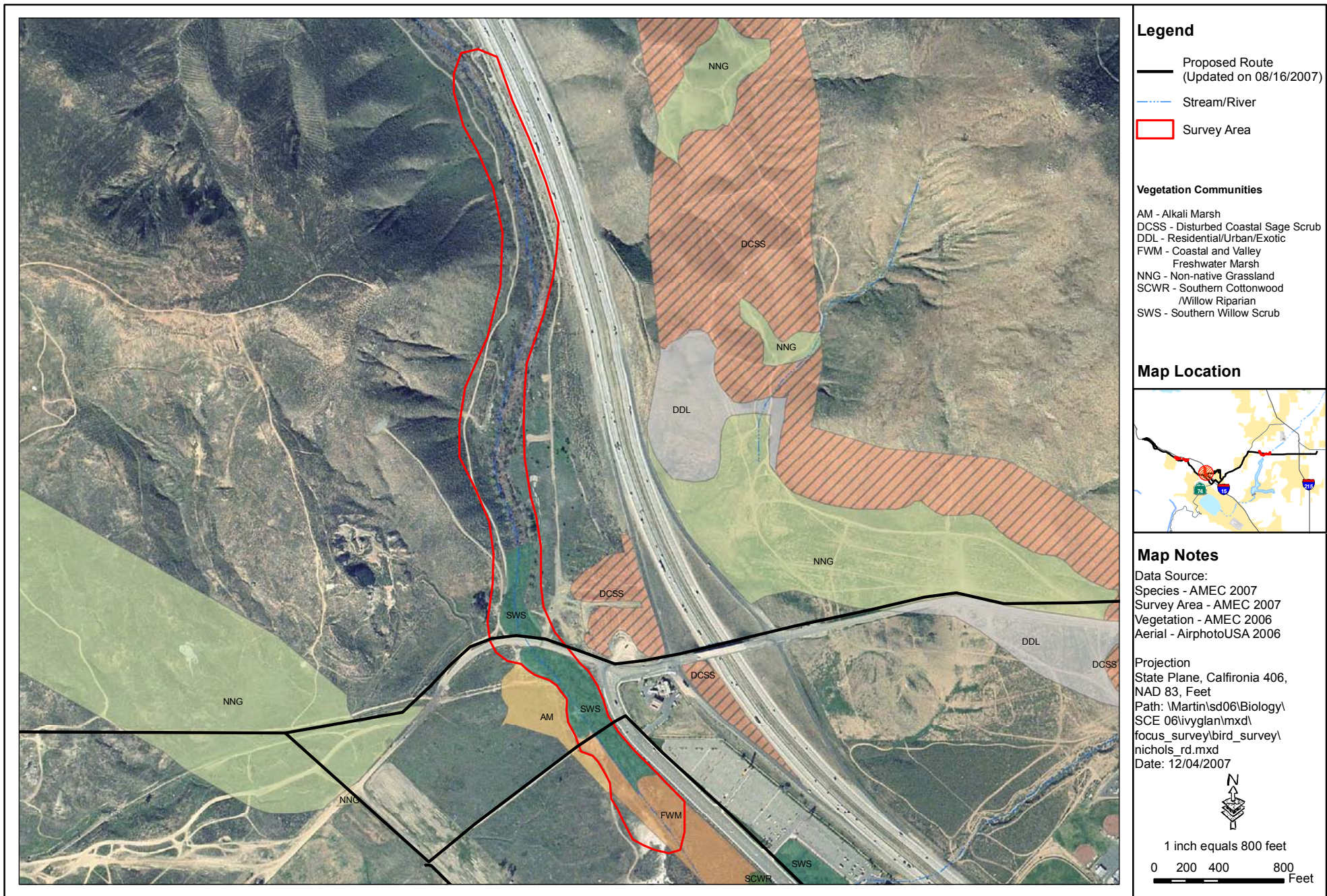
The Valley-Ivyglen Transmission Line Project involves the construction of a new 115kV transmission line which will connect the Valley Substation to the Ivyglen Substation. This transmission line will be installed in an existing right-of-way (ROW) where available, and new ROWs where none exist. The Valley Substation is located in the southwest corner of an unincorporated area known as Romoland, adjacent to the city of Perris. The Ivyglen Substation is located in the southeastern portion of unincorporated Corona, along Temescal Canyon Road and near the Glen Ivy Hot Springs (Figure 2). The Ivyglen Substation is approximately 19 miles west of the Valley Substation.

The proposed project is located in western Riverside County; the proposed transmission line routes also traverse unincorporated Riverside County, and the cities of Lake Elsinore, Corona, Perris, Sun City, and Canyon Lake, California. The proposed routes also traverse through portions of the following U.S. Geological Survey (USGS) 7.5-minute series topographic quadrangles: Corona South, Lake Matthews, Steele Peak, Perris, Lakeview, Santiago Peak, Alberhill, Lake Elsinore, Romoland, Winchester, Sitton Peak, and Wildomar.





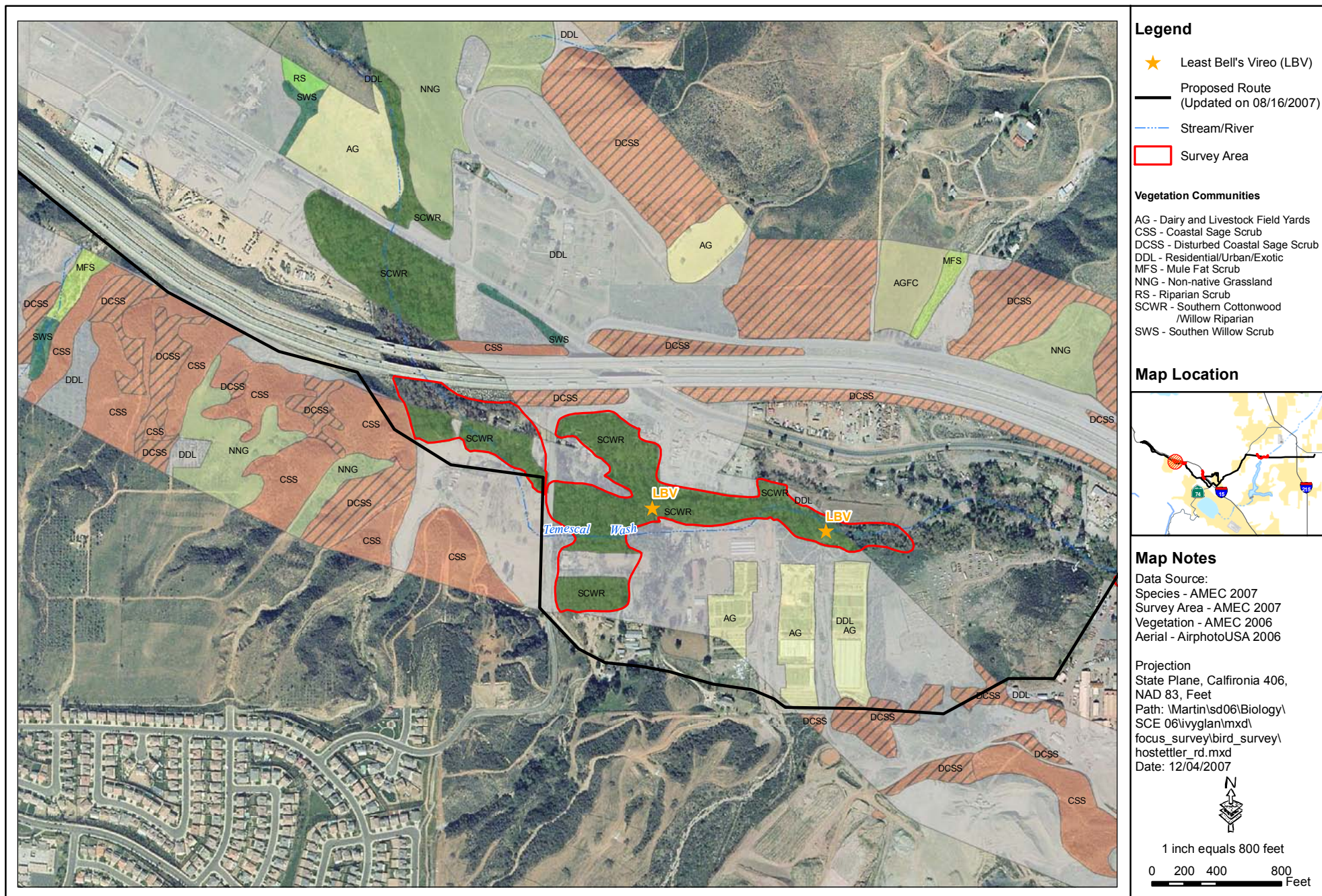
Valley-Ivyglen Transmission Line Project
 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys
 San Jacinto River Survey Area



Valley-Ivyglan Transmission Line Project
Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys
Nichols Road Survey Area



Valley-Ivyglen Transmission Line Project
Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys
Lake Street Survey Area



Valley-Ivyglen Transmission Line Project
Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys
Hostettler Road Survey Area

1.2 Background on the Least Bell's Vireo

Least Bell's Vireo (LBV) is a small, migratory, insectivorous bird which occurs in willow-dominated riparian habitats. Although this bird is drab in plumage and can be secretive within its densely vegetated habitat, males are nonetheless easy to detect on the breeding grounds due to their conspicuous and diagnostic song. Nesting habitat of this species is restricted to willow and/or mulefat dominated riparian scrub along permanent or nearly permanent streams (Grinnell and Miller 1944, Goldwasser 1978, Franzreb 1987, Garrett and Dunn 1981).

Least Bell's Vireos were formerly widespread and common throughout low-lying riparian habitats of central and southern California, but are now restricted to a limited number of locations in southern California. Habitat reduction has contributed to this species' significant population declines. Nest parasitism by Brown-headed Cowbirds (*Molothrus ater*) has also seriously impacted reproductive success by Least Bell's Vireo, as well as many other species which build cup nests (Goldwasser 1978). Least Bell's Vireo is listed as Endangered by the California Department of Fish and Game (CDFG) and by the U.S. Fish and Wildlife Service (USFWS).

1.3 Background on Southwestern Willow Flycatcher

The Southwestern Willow Flycatcher (SWFL) is a small, brownish-olive flycatcher that was formerly considered a common summer resident in southern California's lowland willow thickets and in mountain canyons (Garrett and Dunn 1981). Following the large-scale invasion of southern California by Brown-headed Cowbirds in the 1920s, along with loss of willow riparian habitat, this subspecies was nearly extirpated from southern California. The Willow Flycatcher was listed by the State of California as endangered in 1990. The subspecies *E. t. extimus* (Southwestern Willow Flycatcher) is listed as endangered by the U.S. Fish and Wildlife Service (USFWS). A final determination of critical habitat was made in October 2005 (USFWS 2005).

Recent surveys have revealed populations along the Santa Margarita and San Luis Rey rivers in San Diego County, in the San Bernardino Mountains and along the Mojave River in San Bernardino County, the Santa Ynez River in Santa Barbara County, the Santa Clara River in Los Angeles and Ventura counties, and the South Fork of the Kern River in Kern County (Unitt 1987, Marshall 2000). This subspecies also persists in the Lower Colorado River Valley (Marshall 2000, R. McKernan, San Bernardino County Museum, pers. comm.).

The Southwestern Willow Flycatcher breeds in dense riparian habitats near surface water or saturated soil. Plant composition and habitat structure can vary greatly depending on the site, but willows often make up much of the understory. Populations along the Colorado River are known to use thickets dominated by both native and nonnative plants (especially Salt-Cedar [*Tamarix* spp.]). Dense patches of understory vegetation are a critical component of occupied habitat (Sogge et al. 1997).

1.4 Western Yellow-billed Cuckoo

The Western Yellow-billed Cuckoo (WYBC) is an extremely rare bird in California, with less than 50 pairs found during a statewide survey in 1986-1987, and no indication of more recent population increases. Most of California's Yellow-billed Cuckoos are found in two areas: along



**FINAL
RESULTS OF FOCUSED SURVEYS FOR THE LEAST BELL'S VIREO AND
SOUTHWESTERN WILLOW FLYCATCHER
FOR THE
VALLEY-IVYGLEN SUBTRANSMISSION LINE PROJECT, PHASE 2
RIVERSIDE COUNTY, CALIFORNIA**

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**August 2014
AMEC Project No. 1255400499**

EXECUTIVE SUMMARY

At the request of Southern California Edison, AMEC Environment and Infrastructure, Inc. conducted focused surveys for the state and federally listed as endangered Least Bell's Vireo (*Vireo belli pusillus*) and Southwestern Willow Flycatcher (*Empidonax traillii extimus*). Surveys were conducted at suitable habitat patches along the Phase 2 Valley-Ivyglen Subtransmission Line Project where these species have not been detected during previous focused surveys in 2007, 2010, 2011, 2012 and 2013. The surveys were performed to satisfy requirements of the Western Riverside County Multiple Species Habitat Conservation Plan. Least Bell's Vireos were detected in two survey areas/patches. No Southwestern Willow Flycatchers were detected; however, migrating Willow Flycatchers (*Empidonax traillii*) of more northerly subspecies were detected in three survey areas/patches.

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ACRONYMS AND ABBREVIATIONS

AMEC	AMEC Environment & Infrastructure, Inc.
CDFW	California Department of Fish and Wildlife (new name as of 2013)
°F	degrees Fahrenheit
kV	kilovolt
LBV	Least Bell's Vireo
mph	miles per hour
MSHCP	Multiple Species Habitat Conservation Plan
PST	Pacific Standard Time
ROW	right-of-way
SCE	Southern California Edison
survey area	project ROW and 500-foot buffer from centerline of ROW
SWF	Southwestern Willow Flycatcher
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
VIG	Valley-Ivyglen Subtransmission Line

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1.0 INTRODUCTION

At the request of Southern California Edison (SCE), AMEC Environment and Infrastructure, Inc. (AMEC) conducted focused surveys for the state and federally listed as endangered Least Bell's Vireo (LBV; *Vireo bellii pusillus*) and Southwestern Willow Flycatcher (SWF; *Empidonax traillii extimus*). Surveys were conducted at suitable habitat patches along the Valley-Ivyglen (VIG) Subtransmission Line Project, Phase 2 (Appendix A: Figures 1 through 3). No suitable habitat for the state endangered Western Yellow-billed Cuckoo (*Coccyzus americanus occidentalis*) is present along Phase 2. The surveys were performed to satisfy requirements of the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) (Riverside County 2003). This report presents the findings of those focused surveys as required by U.S. Fish and Wildlife Service (USFWS) recovery permit guidelines.

1.1 Project Description

The proposed VIG project is designed to improve reliability and meet projected electrical load requirements in western Riverside County, and involves the construction of a new 115 kilovolt (kV) subtransmission line between the Valley and Ivyglen Substations. The proposed VIG project has been divided into two portions: eastern (Phase 1) and western (Phase 2). Phase 1 extends from the Valley Substation in the City of Menifee southwest to the corner of Collier Avenue and Third Street in the City of Lake Elsinore. Phase 2 extends from that corner northwest to the Ivyglen Substation in the City of Corona.

The proposed VIG Phase 2 route is located entirely in western Riverside County, California and it traverses portions of unincorporated county and the cities of Corona and Lake Elsinore (Appendix A: Figures 1 through 3). The route traverses portions of the *Lake Elsinore*, *Lake Mathews*, and *Alberhill* U.S. Geological Survey (USGS) 7.5-minute series topographic quadrangles (Appendix A: Figure 2).

This report addresses focused surveys conducted within the Phase 2 portion of the project area only. No focused riparian bird surveys were performed during 2014 within Phase 1; therefore, Phase 1 will not be discussed further. Appropriate habitat was surveyed along the proposed subtransmission line right-of-way (ROW) within a 500 foot buffer on each side of the centerline of the proposed subtransmission lines and access roads (survey area). Habitat patches where LBV or SWF species were detected during previous VIG focused surveys for riparian birds (AMEC 2007, 2010, 2011, 2012 and 2013) were excluded from 2014 surveys.

The survey area is located within the MSHCP area; the MSHCP is a comprehensive, multi-jurisdictional Habitat Conservation Plan. This plan focuses on the conservation of species and their associated habitats in western Riverside County (Riverside County 2003).

1.2 Species Information: Least Bell's Vireo

The LBV is a small, migratory, insectivorous bird, which occurs in willow-dominated riparian habitats. Although this bird is drab in plumage and can be secretive within its densely vegetated habitat, males are easy to detect on the breeding grounds due to their conspicuous and diagnostic song. Nesting habitat of this species is normally restricted to willow- and/or mule fat-dominated riparian scrub along permanent or nearly permanent streams (Grinnell and Miller 1944, Goldwasser 1978, Franzreb 1987, Garrett and Dunn 1981).

LBV were formerly widespread and common throughout low-lying riparian habitats of central and southern California, but are now restricted to a limited number of locations in southern California. Habitat reduction has contributed to this species' significant population decline. Nest parasitism by Brown-headed Cowbirds (*Molothrus ater*) has also seriously impacted reproductive success of LBV, as well as many other species that build cup nests (Goldwasser 1978). The population is slowly recovering as a result of habitat restoration and cowbird control efforts. LBV is listed as Endangered by the California Department of Fish and Wildlife (CDFW) and by the USFWS (USFWS 1986). A final determination of critical habitat was made in 1994 (USFWS 1994). The survey area is not within designated critical habitat for LBV.

1.3 Species Information: Southwestern Willow Flycatcher

The SWF is a small, brownish-olive flycatcher that was formerly considered a common summer resident in southern California's lowland willow thickets and in low elevation mountain canyons (Garrett and Dunn 1981). Following the large-scale invasion of southern California by Brown-headed Cowbirds in the 1920s, along with loss of willow riparian habitat, this subspecies was nearly extirpated from southern California. The Willow Flycatcher (all subspecies) was listed by the State of California as endangered in 1990. The subspecies *E. t. extimus* (SWF) is listed as federally endangered (USFWS 1995). Critical habitat was designated for this species in 1997 (USFWS 1997), then revised and finalized in 2005 (USFWS 2005), then revised and finalized again in 2013 (USFWS 2013). The project area is not currently within designated critical habitat for SWF.

Surveys have revealed extant populations along the Santa Margarita and San Luis Rey Rivers in San Diego County, the San Bernardino Mountains and along the Mojave River in San Bernardino County, the Santa Ynez River in Santa Barbara County, the Santa Clara River in Los Angeles and Ventura counties, the South Fork of the Kern River in Kern County (Unitt 1987, Marshall 2000), and the Prado Basin and San Timoteo Creek in western Riverside County (J. Pike, Orange County Water District; R. McKernan, San Bernardino County Museum: pers. comm.). This subspecies also persists in the Lower Colorado River Valley (Marshall 2000, R. McKernan, pers. comm.). Unlike LBVs, SWF populations do not appear to have gained any significant benefit from habitat restoration and cowbird control efforts.

The SWF breeds in dense riparian habitats near surface water or saturated soil. Plant composition and habitat structure can vary greatly depending on the site, but willows often make up much of the understory. Populations along the Colorado River are known to use thickets dominated by both native and nonnative plants (especially saltcedar [*Tamarix* spp.]). Dense patches of understory vegetation are a critical component of occupied habitat for SWF (Sogge et al. 1997).

2.0 METHODS

2.1 Habitat Assessment

Areas considered to contain suitable habitat were identified along the VIG Phase 2 project route as described below (recorded in UTM, Zone 11, NAD27). Habitat patches where LBV were detected during previous VIG focused surveys for riparian birds (AMEC 2007, 2010, 2011, 2012 and 2013) were excluded from 2014 surveys.

Northwest Survey Area

- **Pasadena** consists of a habitat patch dominated by mule fat (*Baccharis salicifolia*) and willows (*Salix* spp.) (Appendix B: Photograph 1). Drought and the establishment of a homeless encampment prior to the 2014 survey season left this patch in very low quality condition for utilization by riparian birds. There was no surface water or saturation during the 2014 season. It is southwest of the intersection of Third and Pasadena Streets in the City of Lake Elsinore. The west end is at 468446E, 3726999N and the east end at 468529E, 3727010N. This area occurs on land mapped on the USGS 7.5 minute *Lake Elsinore, Calif.* quadrangle (Appendix A: Figures 1, 2A, and 3-1).
- **Lake Street** is primarily along an unnamed drainage. It is variously dominated by mule fat and willows and interspersed with short sections of unsuitable habitat (Appendix B: Photographs 2 and 3). Gum trees (*Eucalyptus* sp.) are adjacent to the riparian habitat along much of the drainage. The north end of this survey area also includes a short segment of Temescal Wash. The survey area is just east of habitat in Temescal Wash known to have been occupied by LBV in the past and north of patches on Lake Street known to have been occupied by LBV in the past. The downstream end (north) is located just northeast of the intersection of Temescal Canyon Road and Lake Street at 463659E, 3731899N. The upstream end (south) of the survey area is at 463835E, 3731471N. No surface water or saturation was visible during the 2014 riparian bird surveys, but saturation at a minimum was likely present in Temescal Wash. The unnamed drainage is a USGS mapped intermittent blue line stream. This area occurs on land mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle in the City of Lake Elsinore (Appendix A: Figures 1, 2B, and 3-2).
- **Horsethief East** is a riparian patch dominated intermittently by Fremont cottonwoods (*Populus fremontii*), willows, and mule fat (Appendix B: Photograph 4). This unnamed drainage is a USGS mapped intermittent blue line stream, which is now interrupted by an upstream housing development. Surface water was present throughout the season, but only at the upstream (south) end of the drainage. It is located approximately 0.4 mile southeast of the intersection of De Palma and Horsethief Canyon Roads. The approximate north end of survey area is at 460892E, 3732717N and the south end is at 460718E, 3732467N. This area occurs on unincorporated lands mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle (Appendix A: Figures 1, 2B, and 3-3).

- **Horsethief West** is intermittently dominated by mule fat and willows (Appendix B: Photograph 5). This unnamed drainage has been highly modified and is now interrupted by development upstream. No surface water or saturation was visible at this site during the 2014 surveys, and much of the riparian vegetation was exhibiting drought stress throughout the season. It is located approximately 0.15 mile southeast of the intersection of De Palma and Horsethief Canyon Roads. The approximate north end of survey area is at 460552E, 3732964N and the south end is at 460466E, 3732642N. This area occurs on land mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle (Appendix A: Figures 1, 2B, and 3-3).
- **De Palma** is a small riparian patch south of De Palma Road, approximately 0.5 mile southeast of the intersection of De Palma and Glen Eden Roads (Appendix B: Photograph 6). The north end of this patch is riparian scrub (willows and mule fat), transitioning to oak woodlands to the southwest. Upstream rural residences may provide some moisture to this unnamed and unmapped drainage, but no surface water or saturation was visible at this site during the 2014 surveys. In addition, much of the riparian vegetation was exhibiting drought stress throughout the season. The approximate north end of survey area is at 459297E, 3733474N and the south end is at 459233E, 3733342N. This area occurs on land mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle (Appendix A: Figures 1, 2B, and 3-4).

Campbell Ranch Survey Area

- **Campbell** consists of patches of riparian vegetation dominated by willows, western sycamores (*Platanus racemosa*), and mule fat (Appendix B: Photographs 7 and 8). They are along an unnamed USGS mapped blueline stream, but are separated by Campbell Ranch Road. The drainage may gain some moisture from rural residences, but appears to be a largely natural system upstream of the survey area. No surface water or soil saturation was visible during the surveys, and vegetation east of Campbell Ranch Road was exhibiting drought stress. The survey area is at the intersection of Campbell Ranch Road and Indian Truck Trail in the City of Corona. The approximate north end of survey area is at 458002E, 3734212N and the south end is at 457767E, 3733981N. This area occurs on land mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle (Appendix A: Figures 1, 2C, and 3-6).
- **Fire Station** consists of two patches of riparian vegetation dominated by willows (Appendix B: Photographs 9 and 10). They are along an unnamed USGS mapped blueline stream, but are separated by Campbell Ranch Road. Vegetation in the drainage appears to be sustained by runoff from the large residential area immediately to the northwest. Surface water was present during the survey season. The survey area is at the intersection of Campbell Ranch Road and Mayhew Canyon Road (south end) adjacent to a fire station in the City of Corona. The approximate north end of survey area is at 457693E, 3734741N and the south end is at 457550E, 3734513N. This area occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (Appendix A: Figures 1, 2C, 3-6, and 3-7).

- **Soapberry** consists of two patches of adjacent riparian vegetation dominated by willows and mule fat (Appendix B: Photograph 11). They are in created basins, which are not on USGS mapped bluelines. They appear to be sustained by runoff from the large residential area immediately to the south. Surface water and/or saturation was intermittently present during the survey season. Both are on the north side of Campbell Ranch Road, near its intersection with Soapberry Street in the City of Corona. The approximate east end of survey area is at 457529E, 3734889N and the west end is at 457135E, 3735200N. This area occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (Appendix A: Figures 1, 2C, and 3-7).
- **Triplet** consists of three patches of adjacent riparian vegetation dominated by willows and mule fat. Two are on drainages not mapped as bluelines by the USGS, and the third is in a created basin, also not on a mapped blueline. All appear to be sustained by runoff from the large residential area immediately to the south (Appendix B: Photograph 12). Surface water was present during the survey season, especially at the westernmost patch. All are on the north side of Campbell Ranch Road, near its intersection with Mayhew Canyon Road (north end) in the City of Corona. The approximate east end of survey area is at 456844E, 3735397N and the west end is at 456567E, 3735471N. This area occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (Appendix A: Figures 1, 2C, and 3-8).
- **Basin** is in a detention basin/former surface mine southwest of Temescal Canyon Road, just south of its intersection with Campbell Ranch Road in the City of Corona (Appendix B: Photograph 13). This patch contains willows, mule fat, and saltcedar (*Tamarix ramosissima*). It is not a named or mapped drainage. No surface water or saturation was visible during the surveys, and the vegetation exhibited drought stress throughout the season. The approximate north end of survey area is at 456189E, 3735514N and the south end is at 456207E, 3735393N. This area occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (Appendix A: Figures 1, 2C, and 3-8).
- **Mayhew** is two associated riparian patches just east of the intersection of Temescal Canyon Road and Mayhew Road in the City of Lake Elsinore (Appendix B: Photographs 14 and 15). The two patches contain mule fat and willows, but lacked surface water or saturated soils other than some saturation at the southernmost end. This area is not mapped as a drainage, but the eastern patch is within natural drainage contours and appears to be fed by runoff from housing developments on the other side of Interstate 15. This drainage was once blocked by fill for a now abandoned railroad crossing, and passed through a culvert, below the survey area. That fill and culvert were blown out by flooding, most likely in 2011. The western patch of this survey area appears to be an artificial basin that may have filled when water backed up against the former railroad crossing. Now that the obstacle is gone, this basin may become increasingly arid, but so far vegetation has persisted. Although the vegetation has persisted, it showed signs of drought stress during the 2014 survey season. The approximate west end of the survey area is at 456519E, 3735684N and the east end is at 456625E, 3735620N. This area occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (Appendix A: Figures 1, 2C, and 3-8).

- **Yard** is a small riparian patch southwest of Temescal Canyon Road, approximately 0.3 mile south-southeast of El Hermano Road (Appendix B: Photograph 16). A patch of willows and mule fat occurs at this site. A grove of large gum trees is immediately northeast of the riparian scrub. This survey area had surface water during much of the season. This survey area is on an unnamed USGS mapped intermittent blueline stream, with flow enhanced by runoff from upstream residential development. The approximate west end of survey area is at 457767E, 3734904N and the east end is at 457791E, 3734938N. This area occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle in or near Corona city limits (Appendix A: Figures 1, 2C, and 3-7).
- **Indian Truck Trail** consists of several unnamed USGS mapped intermittent blueline streams as they converge at Temescal Wash, approaching and entering the wash as its tributaries (Appendix B: Photographs 17 and 18). These are all near the intersection of Temescal Canyon Road and Indian Truck Trail in or near Corona city limits. Riparian habitat in these patches consists of western sycamore, willows, Fremont cottonwoods, mule fat, and coast live oaks (*Quercus agrifolia*). Upstream development may provide some moisture to this drainage, but no surface water or saturation was visible during the survey season other than several puddles fed by a leaking water pipeline. Although areas near the dam did have surface water, they were outside the survey area. The approximate west end of survey area is at 458302E, 3734223N and the east end is at 458725E, 3734336N. These patches occur on lands mapped on the USGS 7.5 minute *Alberhill, Calif.* and *Lake Mathews, Calif.* quadrangles (Appendix A: Figures 1, 2C, and 3-5).

2.2 Survey Methodology

Focused surveys for LBV and SWF were conducted by John F. Green under the authority of USFWS Permit TE-054011-5 and Stephen J. Myers under the authority of USFWS Permit TE-804203-10. Nicole Kimball was a supervised individual during most surveys. A notification letter, dated 29 April 2014, was submitted to the USFWS prior to performing any surveys (Appendix C).

In accordance with the currently accepted survey protocol for the LBV (USFWS 2001), each site was surveyed eight times by AMEC biologists. The LBV protocol requires surveys to be conducted at least ten days apart between 10 April and 31 July. The SWF protocol requires five surveys; the first survey must be performed from 15 May to 31 May; the next two surveys from 1 June to 24 June; and the final two surveys between 25 June and 17 July. In addition, each survey should be at least five days apart (Sogge et al. 2010). The SWF surveys were performed concurrently with LBV surveys. Required SWF survey forms are provided in Appendix D. To cover all of the habitat along Phase 2, each full survey "visit" took two person days (Table 1). In Appendix A, the survey areas are illustrated on Figure 2 (USFWS required topographic maps) and Figure 3 (aerial photos).

Surveys consisted of slowly moving through the habitat, while listening for the songs and calls of the target species. During the SWF surveys, recordings of their vocalizations were broadcast as required by protocol. Wildlife species observed during the surveys were recorded in field notes (Appendix E).

Table 1.
2014 Survey Data*

Date	Observer	Time (PST)	Temp. (°F)	Wind (mph)	Sky (% cover)
Northwest Survey Area (Pasadena, Lake Street, Horsethief East, Horsethief West, and De Palma)					
11 April	JFG (portion)	0545-1000	63-80	2-6	5
11 April	SJM (portion)	0830-1000	76-85	0-3	10
21 April	SJM; NMK	0530-1020	59-80	0-8	0
01 May	JFG; NMK	0505-0905	55-83	0-8	40-50
15 May †	SJM; NMK	0520-0955	64-94	1-3	0
03 June †	SJM; NMK	0520-1000	59-86	0-8	0
20 June †	JFG; NMK	0430-0815	61-81	0-1	5-30
30 June †	JFG	0440-0855	68-77	0-2	25
16 July †	SJM; NMK	0520-1010	70-80	0-6	100-2
Campbell Ranch Survey Area (Campbell, Fire Station, Soapberry, Triplet, Basin, Mayhew, Yard, and Indian Truck Trail)					
14 April	JFG	0625-0925	66-81	0-6	0
24 April	JFG; NMK	0510-0915	55-70	2-6	10-25
05 May	SJM; NMK	0520-1025	56-73	0-6	0-70
16 May †	JFG; NMK	0445-0910	65-92	0-1	30-10
04 June †	SJM; NMK	0510-0950	50-85	0-5	0-20
16 June †	JFG; NMK	0430-0840	63-72	1-2	100-5
26 June †	SJM; NMK	0510-0945	57-75	0-3	60-80
14 July †	JFG; NMK	0440-0850	72-82	0-1	70-95

* Notes: † LBV and SWF surveys conducted concurrently, unmarked surveys were for LBV only; JFG = John F. Green; NMK = Nicole M. Kimball; SJM = Stephen J. Myers; PST = Pacific Standard Time; °F = degrees Fahrenheit; mph = miles per hour; % = percent

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3.0 RESULTS

3.1 Habitat Description

The two survey areas (Northwest and Campbell Ranch) are all vegetated with plants typical of lowland riparian areas in southern California, including willows, mule fat, Fremont cottonwoods, and western sycamore, as described in Section 2.1.

3.2 Survey Results

A total of 110 (13 more than in 2013) bird species were detected during the 2014 Phase 2 riparian bird focused surveys. Among the most frequently detected species were the following birds that are typical of lowland riparian habitats in southern California: Mourning Dove (*Zenaida macroura*), Black-chinned Hummingbird (*Archilochus alexandri*), Nuttall's Woodpecker (*Picoides nuttallii*), Black Phoebe (*Sayornis nigricans*), Bushtit (*Psaltirparus minimus*), House Wren (*Troglodytes aedon*), Yellow Warbler (*Setophaga petechia*), Common Yellowthroat (*Geothlypis trichas*), Song Sparrow (*Melospiza melodia*), and Lesser Goldfinch (*Spinus psaltria*).

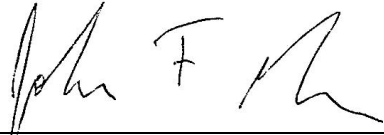
3.3 Least Bell's Vireo

LBV were detected in the Lake Street and Fire Station survey patches (Appendix A: Figures 3-2, 3-6, and 3-7). Only singing males were detected; breeding success was not determined, as breeding success was not part of the scope of these surveys. The singing male at the Fire Station patch was present from the first survey visit of the season through the 16 May visit, apparently on a breeding territory, but it was not found on any subsequent visits. The singing male at Lake Street was only detected on the 16 July visit, the final survey of the season. This individual was singing a weak, relatively quiet song, and was probably a dispersing adult or juvenile from occupied habitat away from the Lake Street patch, since no LBVs were detected there during the previous seven survey visits.

3.4 Southwestern Willow Flycatcher

No SWFs were detected at any of the 2014 survey areas/patches. However, other subspecies of Willow Flycatcher were detected at the following patches: Lake Street, between Horsethief East and Horsethief West, and approximately 250 feet north of the Indian Truck Trail patch closest to the dam (Appendix A: Figures 3-2, 3-3, and 3-5). Observations of Willow Flycatchers at each of these locations occurred only once, on 03 June at the Lake Street and Horsethief patches and on 04 June at the Indian Truck Trail patch. These are typical dates for migrant Willow Flycatchers. The species' absence during subsequent surveys indicated that the birds were migrants, presumably of more northerly subspecies.

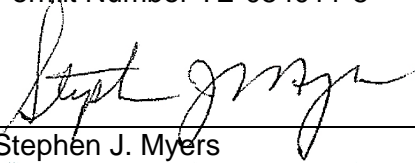
I certify that the information in this survey report and attached exhibits fully and accurately represent my work.

A handwritten signature in black ink, appearing to read "John F. Green".

John F. Green
Permit Number TE-054011-5

21 August 2014

Date

A handwritten signature in black ink, appearing to read "Stephen J. Myers".

Stephen J. Myers
Permit Number TE-804203-10

21 August 2014

Date

A handwritten signature in blue ink, appearing to read "Nicole Kimball".

Nicole Kimball - Supervised Individual

21 August 2014

Date

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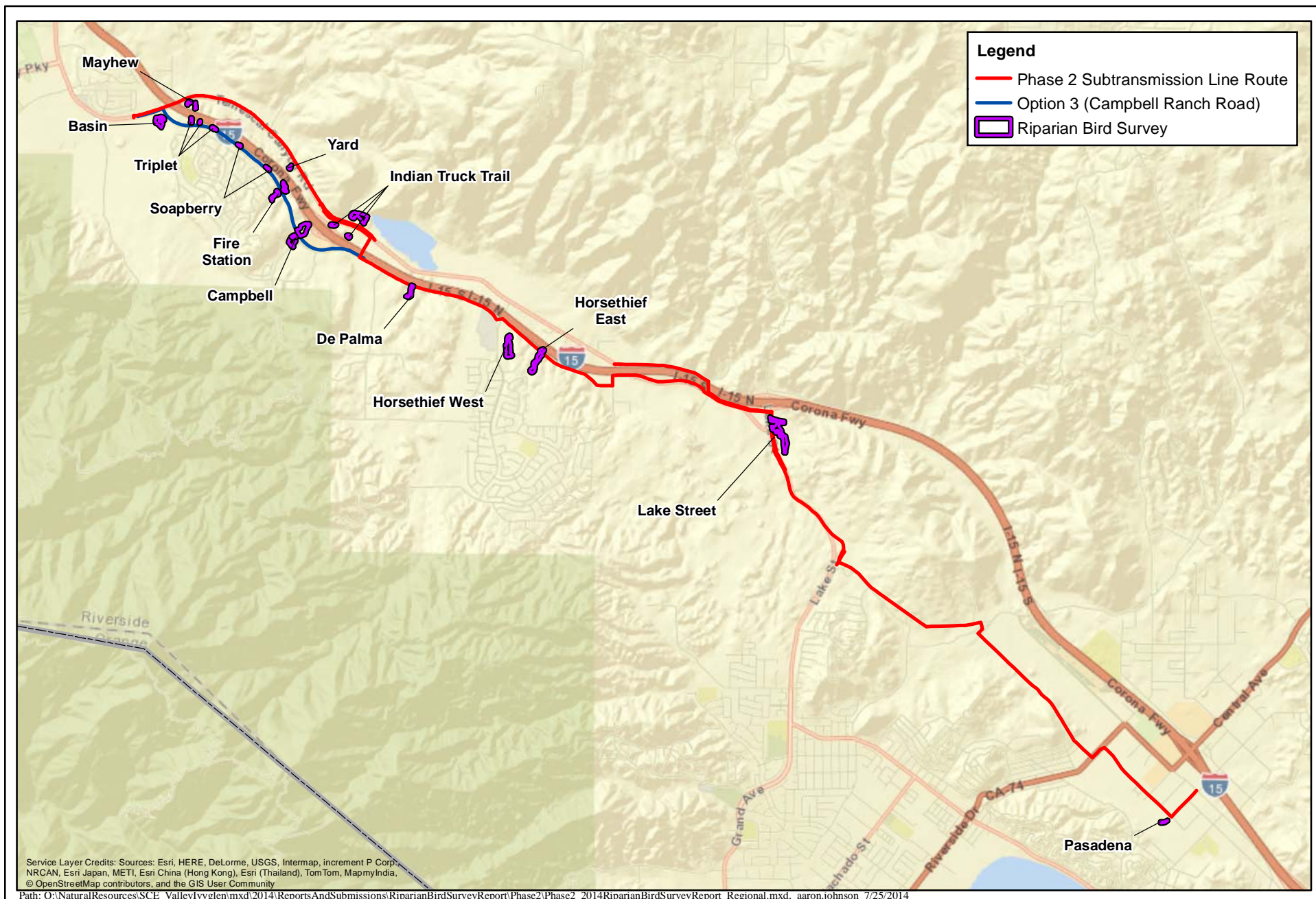
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APPENDIX A

FIGURES

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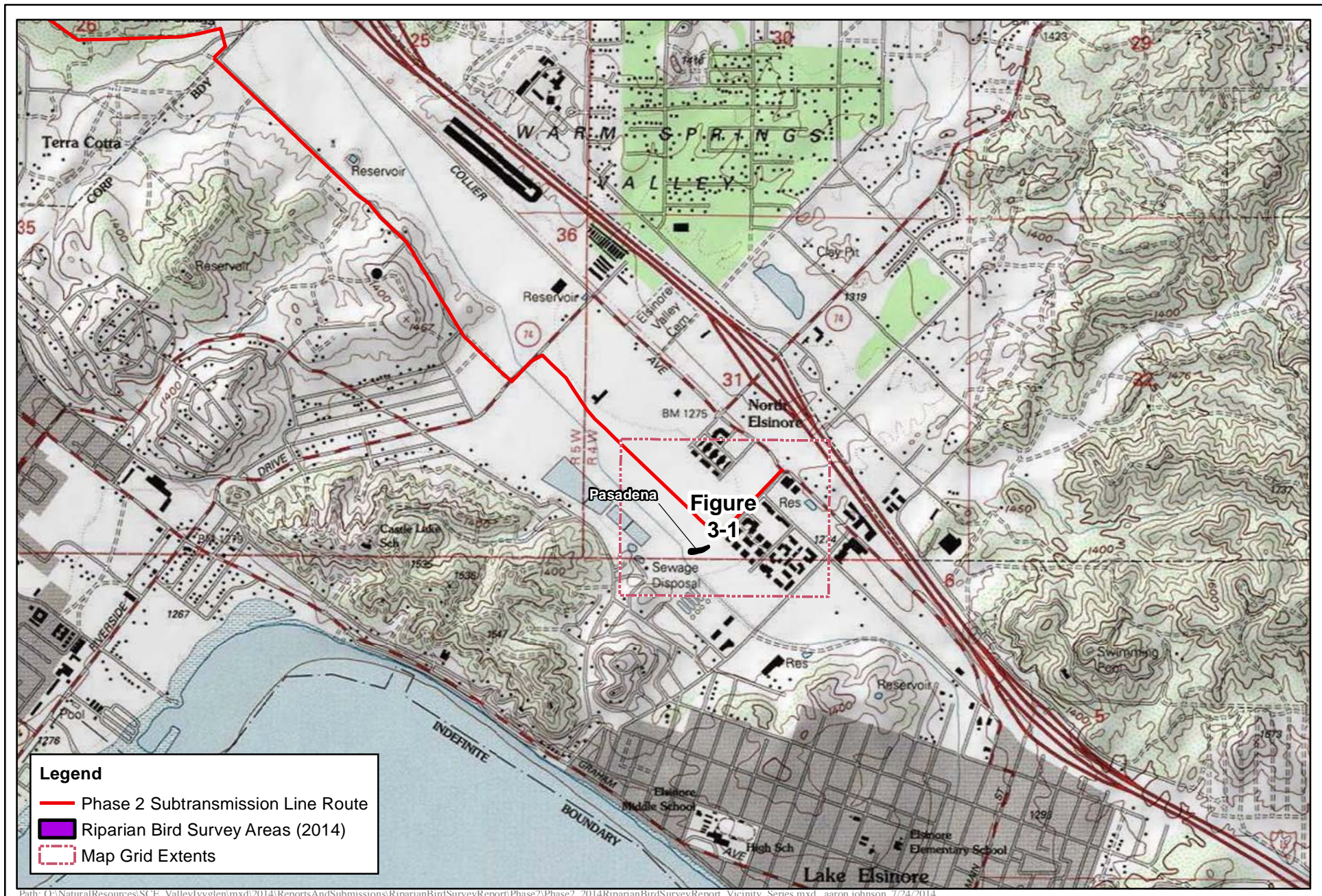
Regional Map
2014 Riparian Bird Focused Surveys
Valley-Ivyglen Subtransmission Line Project: Phase 2
Riverside County, CA

1 inch = 1 miles
 0 0.5 1 Miles



FIGURE

1



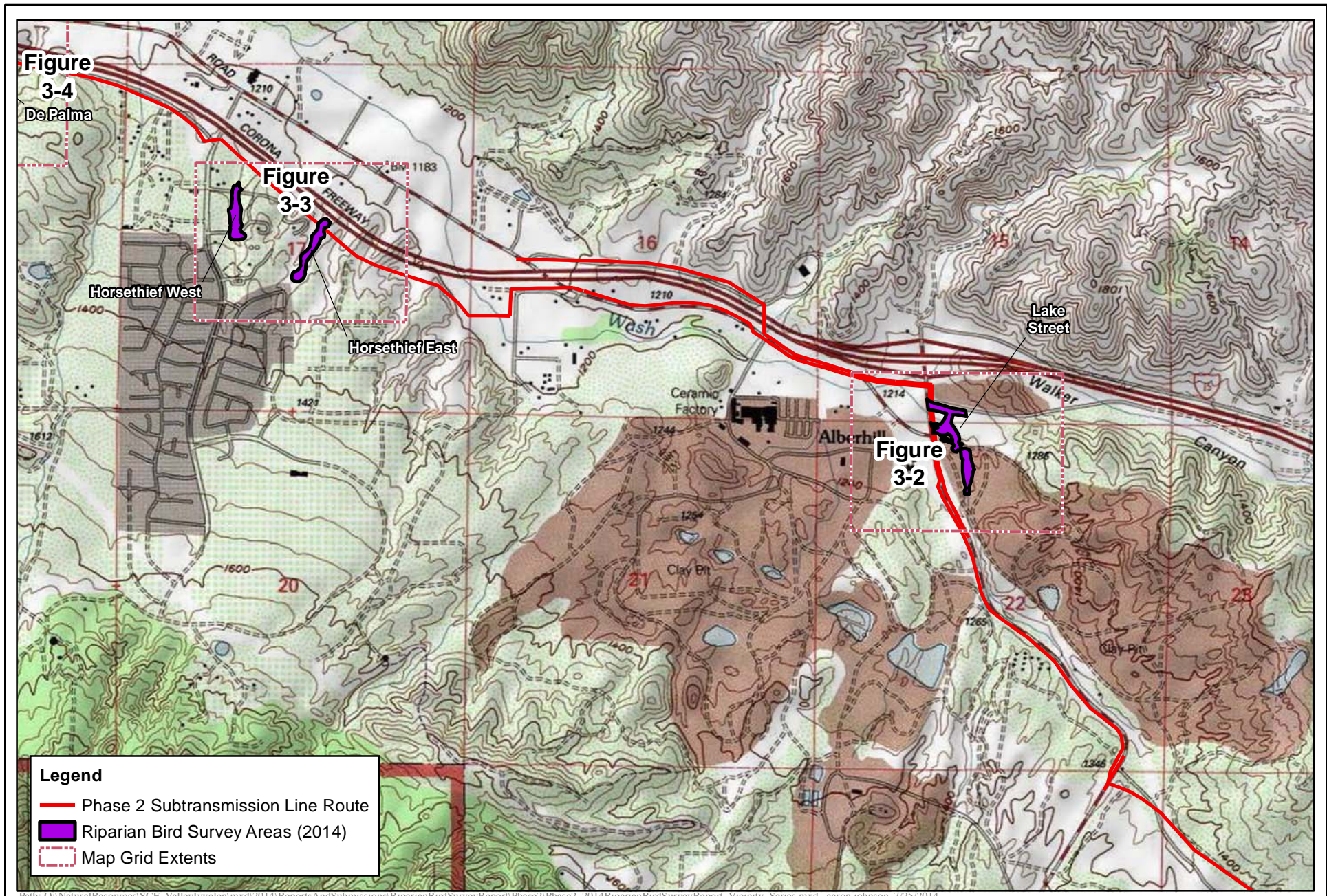
Project Location
2014 Riparian Bird Focused Surveys
Valley-Ivyglen Subtransmission Line Project: Phase 2
Riverside County, CA

1 inch = 2,019.6 feet
 0 1,000 2,000 Feet



FIGURE

2A



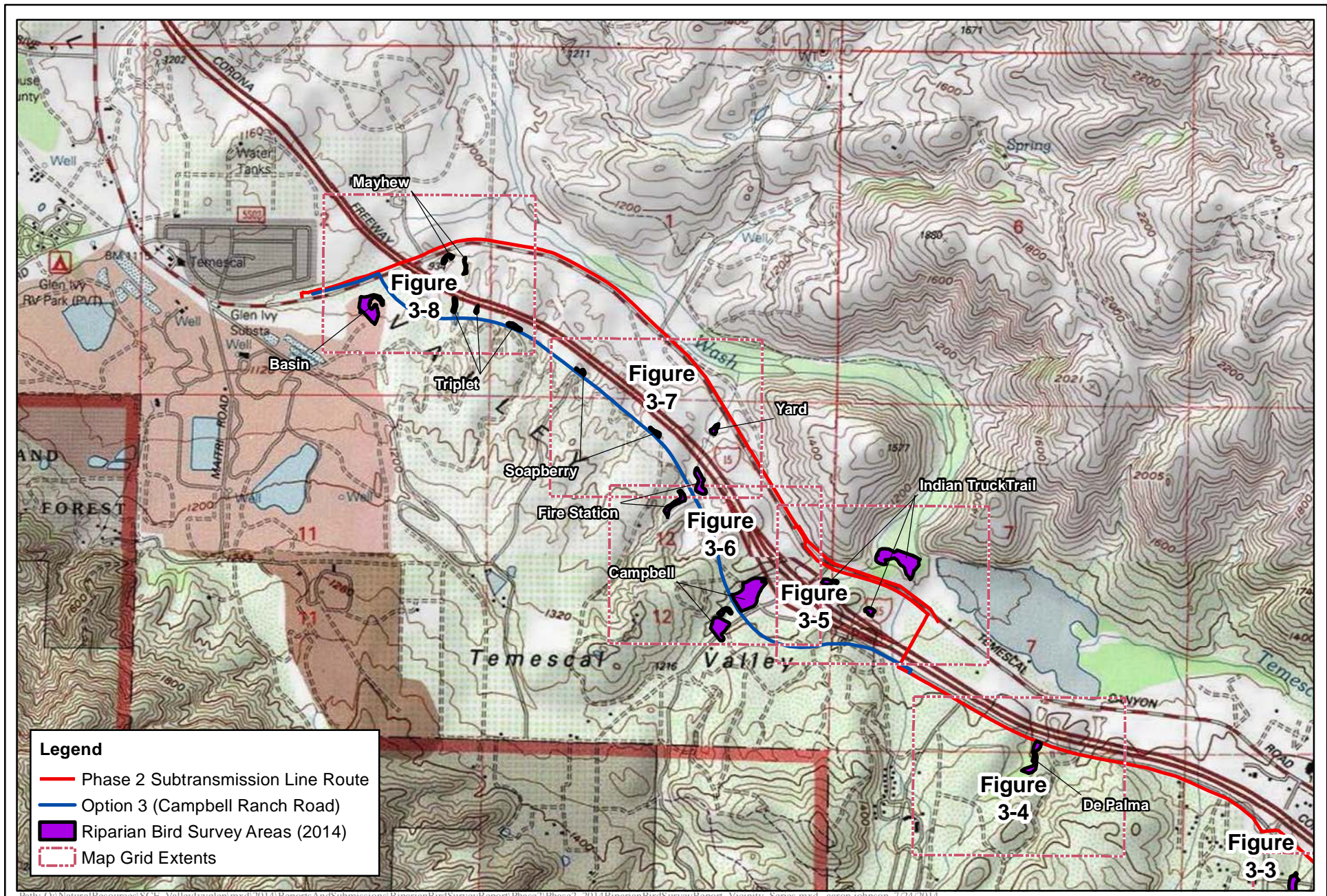
Project Location
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Valley-Ivyglen Subtransmission Line Project: Phase 2
Riverside County, CA

1 inch = 2,000 feet
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FIGURE

2B

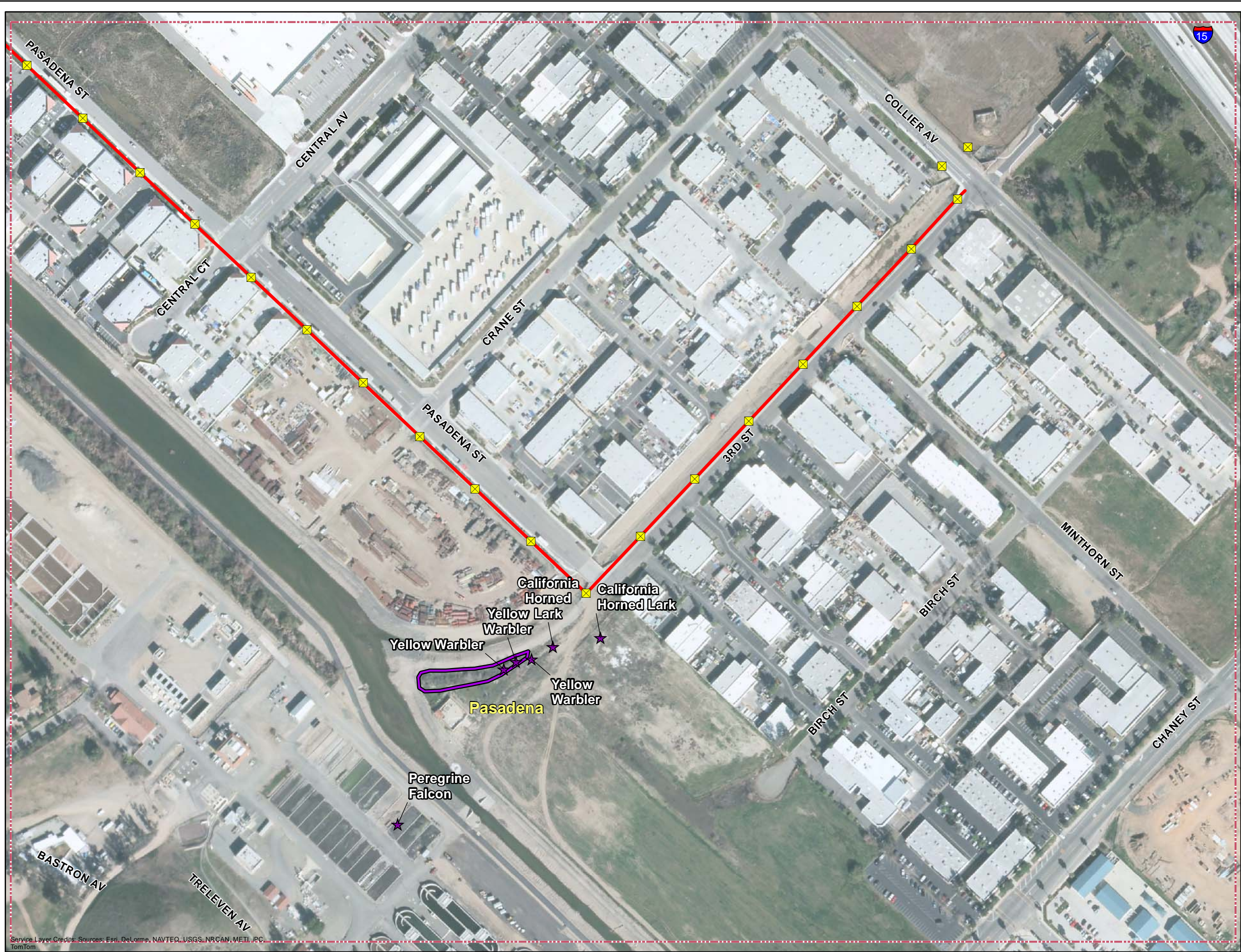


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 Service Layer Credits: Copyright© 2013 National Geographic Society, i-cubed

Project Location
2014 Riparian Bird Focused Surveys
Valley-Ivyglen Subtransmission Line Project: Phase 2
Riverside County, CA

FIGURE

2C



Legend

Project Features

Pole Locations (7/25/2014)

Subtransmission Line (7/25/2014)

Riparian Bird Survey Areas (2014)

Map Grid Extents

Sensitive Species Data (AMEC)

Sensitive Species Data (2014)

1 inch = 250 feet

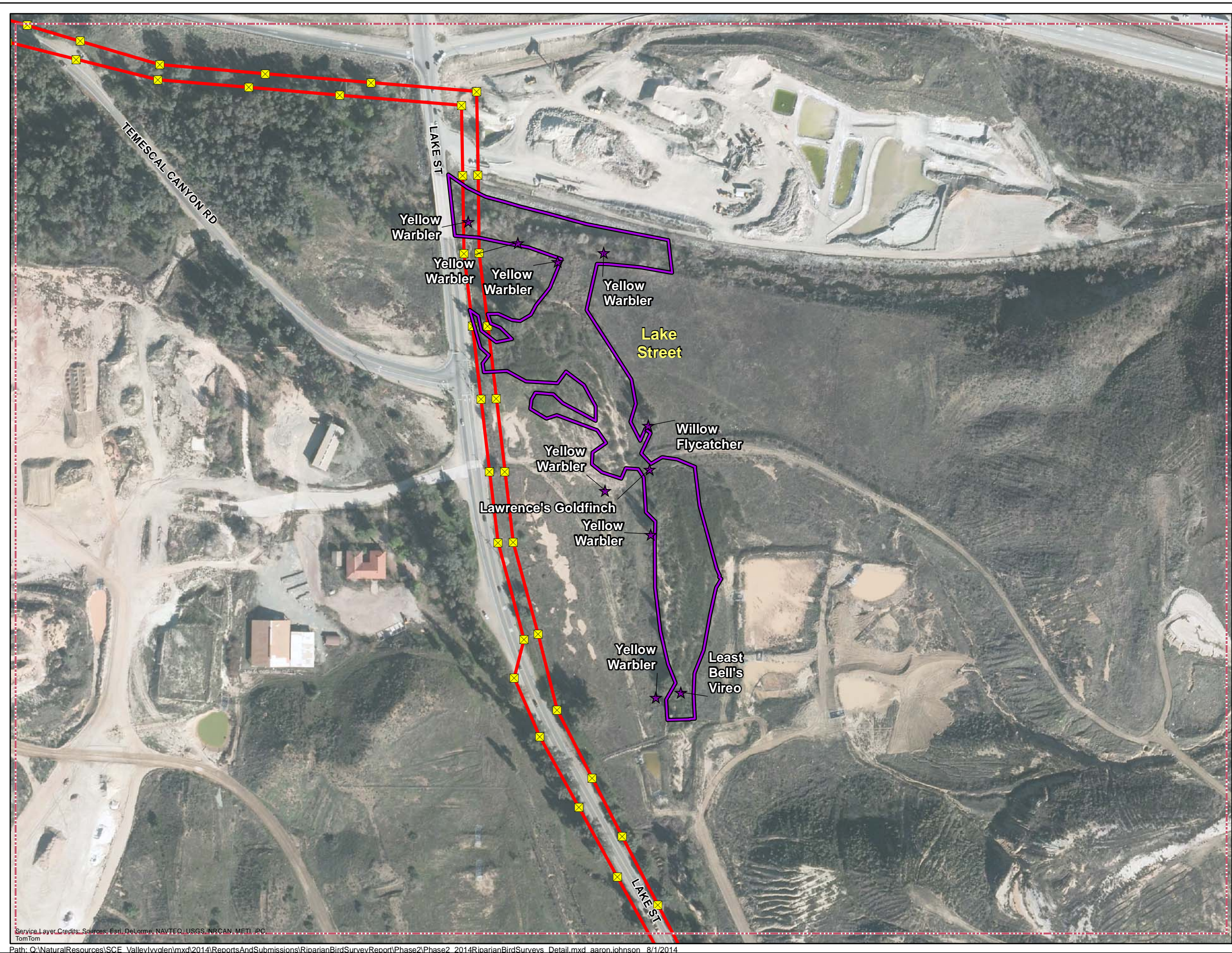
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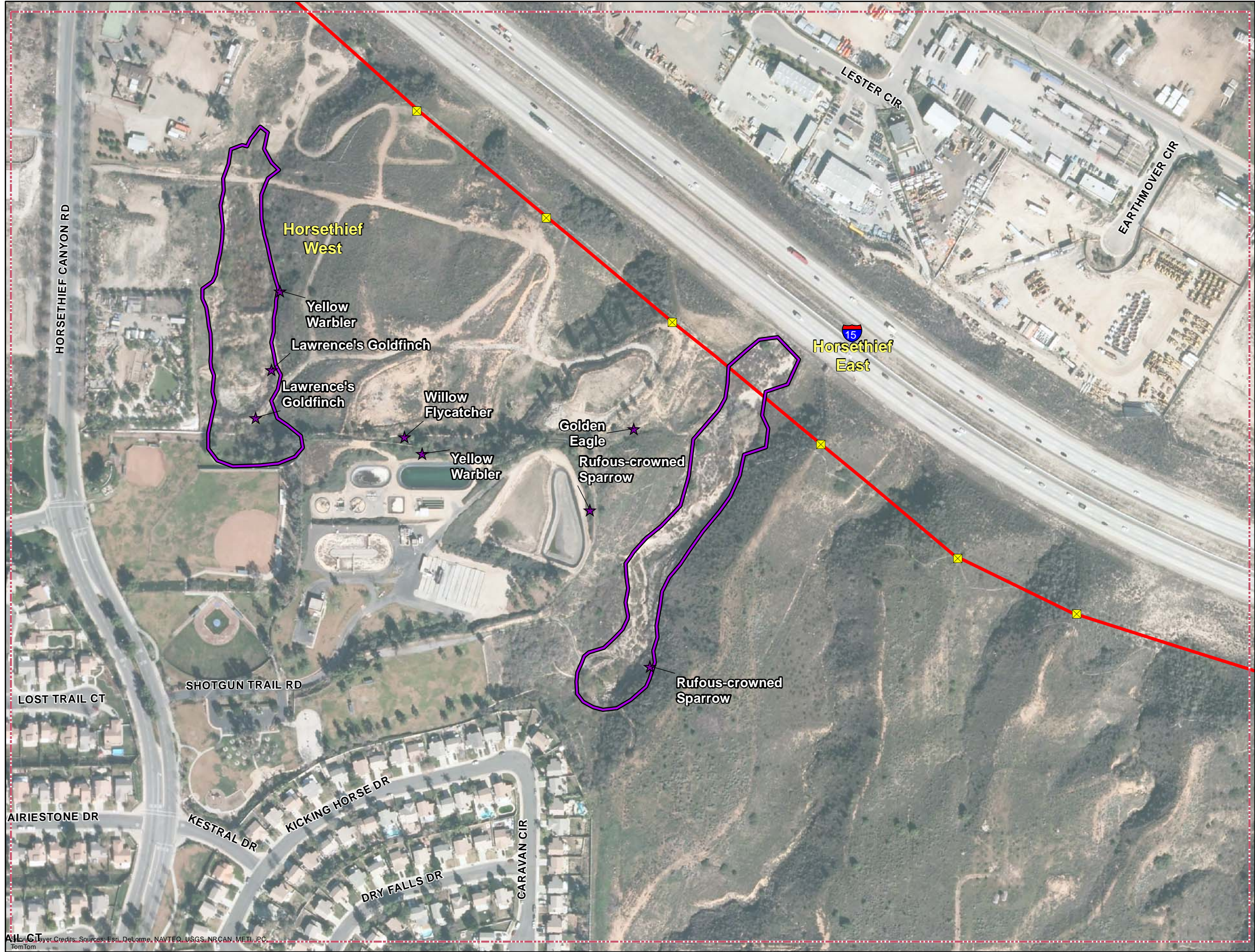
amec

2014 Riparian Bird Focused Surveys
Valley - Ivyglen Subtransmission Line Project
Phase 2

Figure 3-1

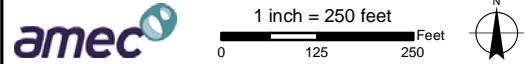
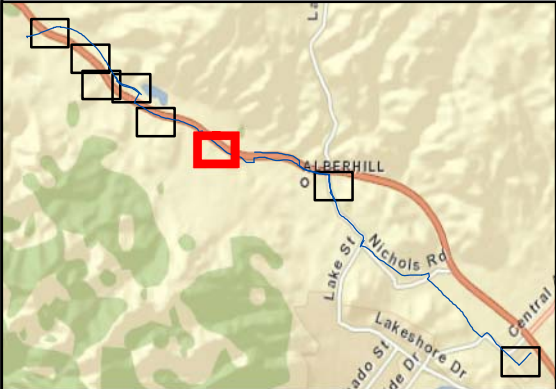
Service Layer Credits: Sources: Esri, DeLorme, NAVTEQ, USGS, NRCAN, METI, IPC, TomTom
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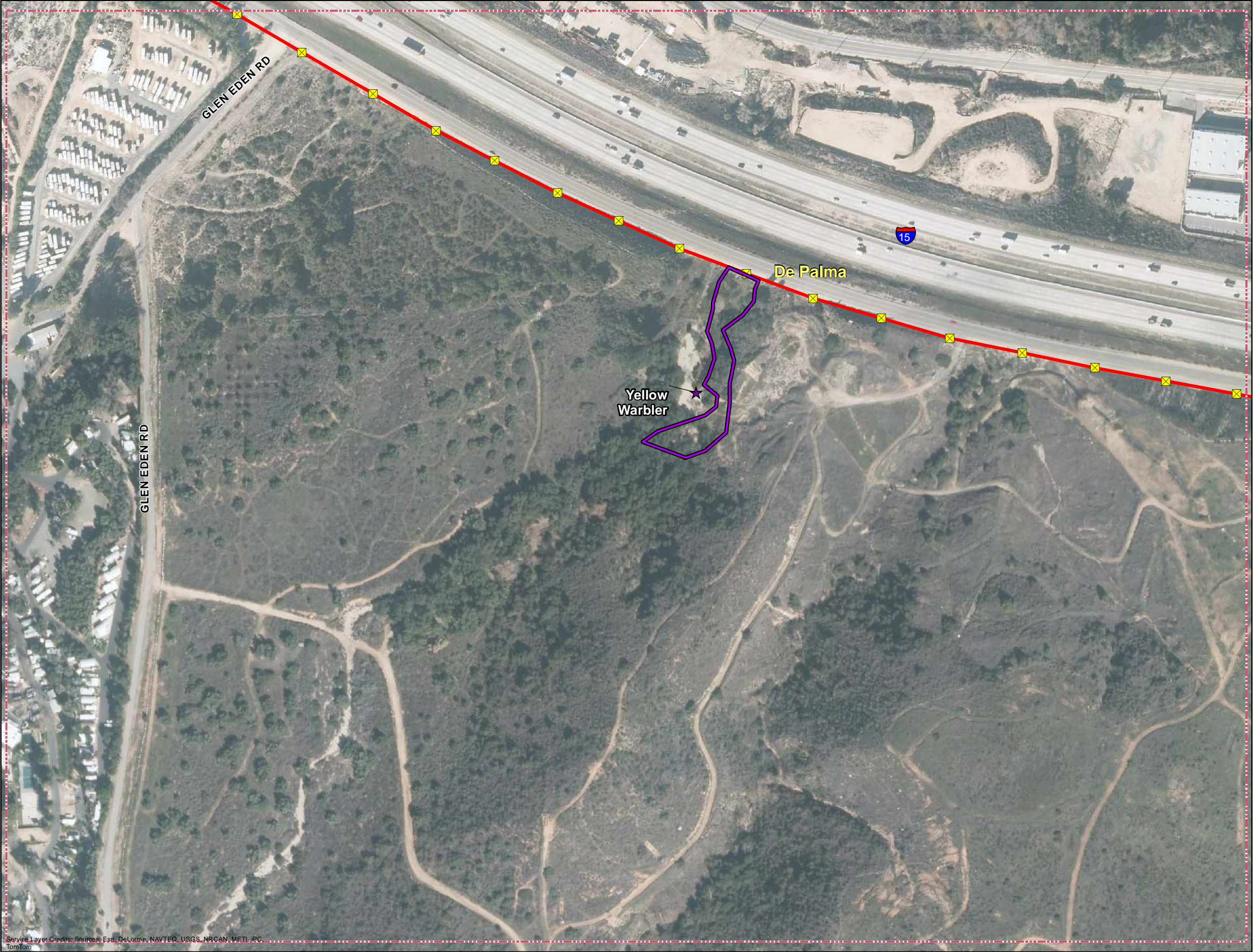
Legend

- Project Features**
- ✦ Pole Locations (7/25/2014)
 - Subtransmission Line (7/25/2014)
 - ▭ Riparian Bird Survey Areas (2014)
 - ▭ Map Grid Extents
- Sensitive Species Data (AMEC)**
- ★ Sensitive Species Data (2014)



2014 Riparian Bird Focused Surveys
Valley - Ivyglen Subtransmission Line Project
Phase 2

Figure 3-3



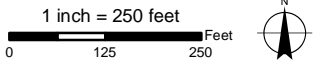
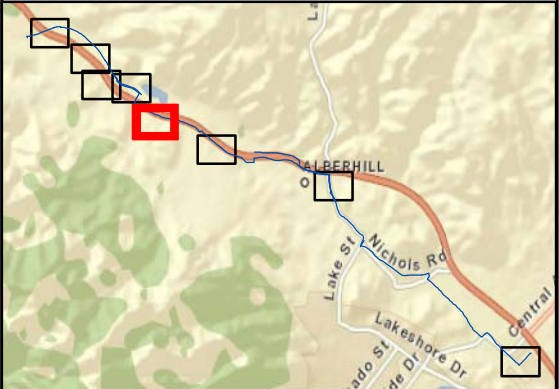
Legend

Project Features

- ✕ Pole Locations (7/25/2014)
- Subtransmission Line (7/25/2014)
- ▭ Riparian Bird Survey Areas (2014)
- - - Map Grid Extents

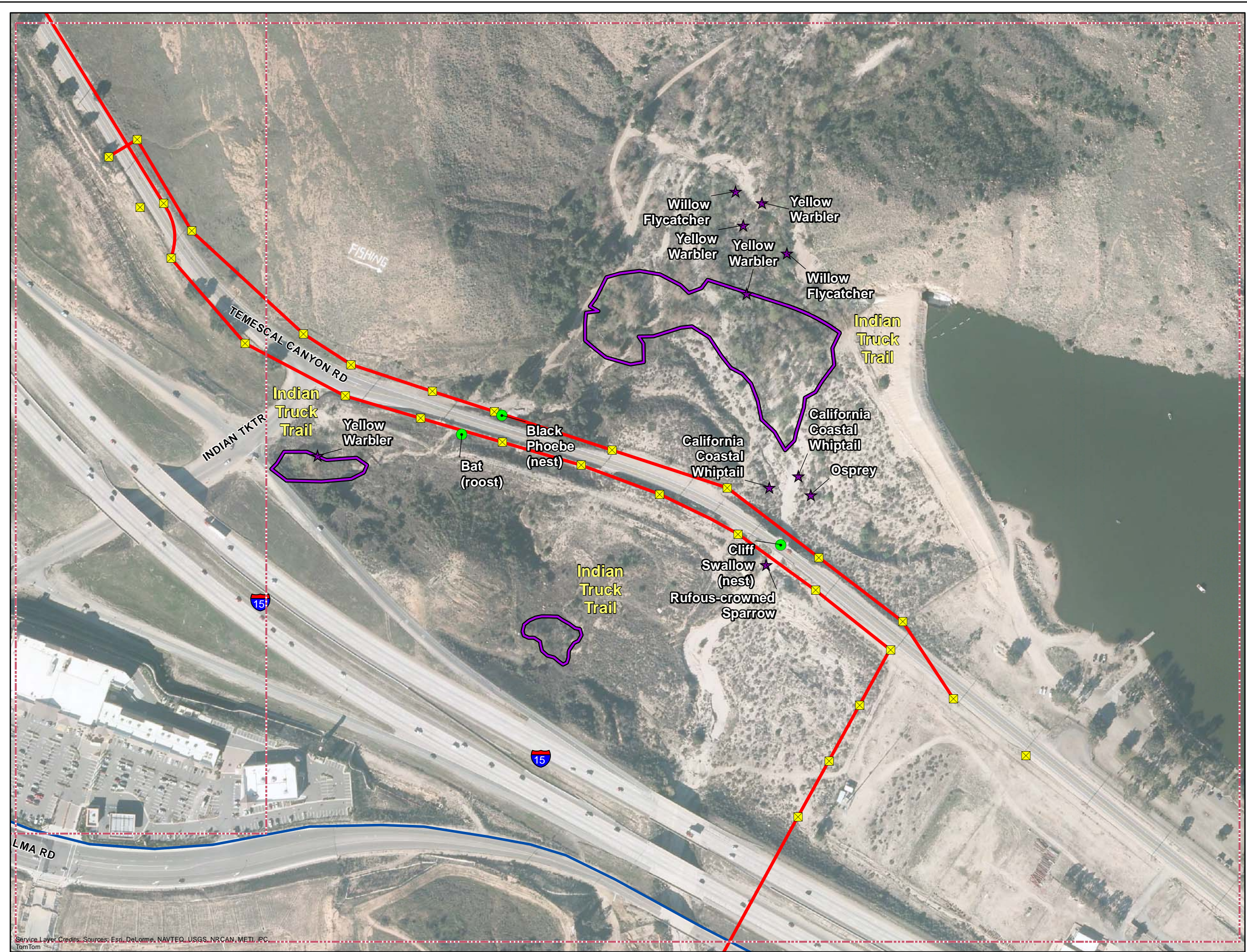
Sensitive Species Data (AMEC)

- ★ Sensitive Species Data (2014)



2014 Riparian Bird Focused Surveys
Valley - Ivyglen Subtransmission Line Project
Phase 2

Figure 3-4



Legend

Project Features

- Yellow square: Pole Locations (7/25/2014)
- Red line: Subtransmission Line (7/25/2014)
- Blue line: Option 3 (Campbell Ranch Road)
- Purple outline: Riparian Bird Survey Areas (2014)
- Red dashed line: Map Grid Extents

Sensitive Species Data (AMEC)

- Purple star: Sensitive Species Data (2014)
- Green dot: Nest Locations (2014)

1 inch = 250 feet

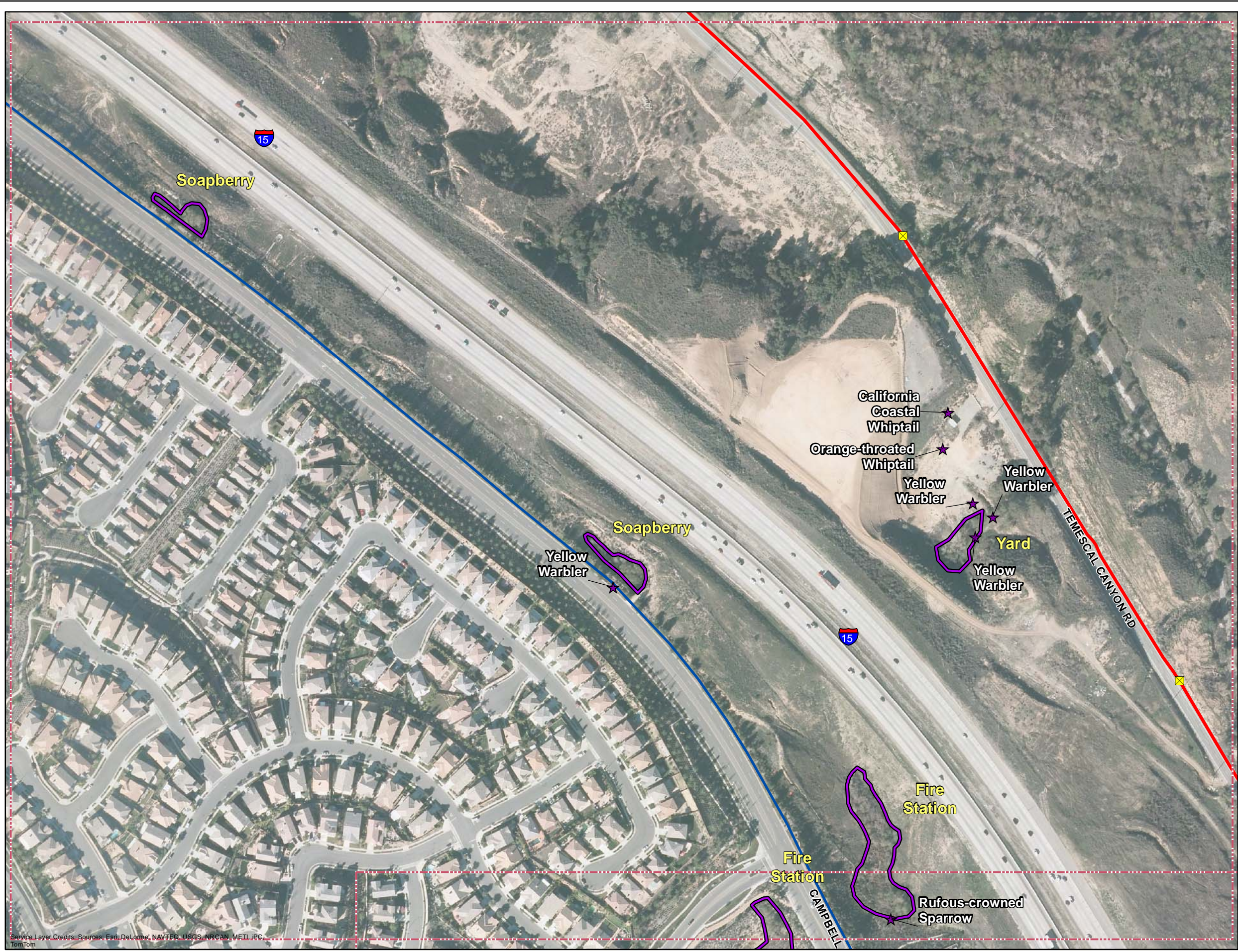
0 125 250 Feet

amec

2014 Riparian Bird Focused Surveys
Valley - Ivyglen Subtransmission Line Project
Phase 2

Figure 3-5





Legend

Project Features

- ☒ Pole Locations (7/25/2014)
- Subtransmission Line (7/25/2014)
- Option 3 (Campbell Ranch Road)
- ▭ Riparian Bird Survey Areas (2014)
- ▭ Map Grid Extents

Sensitive Species Data (AMEC)

- ★ Sensitive Species Data (2014)

2014 Riparian Bird Focused Surveys
Valley - Ivyglen Subtransmission Line Project
Phase 2

Figure 3-7



Legend

Project Features

- Pole Locations (7/25/2014)
- Subtransmission Line (7/25/2014)
- Option 3 (Campbell Ranch Road)
- Riparian Bird Survey Areas (2014)
- Map Grid Extents

Sensitive Species Data (AMEC)

- Sensitive Species Data (2014)
- Nest Locations (2014)

2014 Riparian Bird Focused Surveys
Valley - Ivyglen Subtransmission Line Project
Phase 2

Figure 3-8

the Sacramento River between Red Bluff and Colusa, and along the South Fork Kern River near Weldon (Laymon 1998). Western Yellow-billed Cuckoo was listed as Endangered by the State of California in 1988.

Western Yellow-billed Cuckoos are long distance migrants and return to California from their South American wintering areas in late May and June. Occupied riparian forests are usually larger than 25 acres. Detection of Western Yellow-billed Cuckoos is difficult as they have large home ranges in dense willow and cottonwood forests and call infrequently. Recorded playback of the species' calls is the recommended method for conducting surveys.

2.0 METHODS

In accordance with the currently accepted survey protocol for the Least Bell's Vireo (USFWS 2001), the sites were surveyed at least eight times by AMEC Earth and Environmental (AMEC) ornithologists. The SWFL protocol requires five surveys, and that the first survey be performed between 15 May and 31 May, the second between 1 June and 21 June, and that three visits be conducted between 22 June and 17 July (Sogge et al. 1997). The LBV protocol requires at least eight surveys between 10 April and 31 July.

Three of the sites (Nichols Road area, Lake Street area, and Hostettler Road area) contained habitat suitable for the Western Yellow-billed Cuckoo, and were surveyed for that species. The survey methodology for the cuckoo requires a minimum of four visits at each site, with the surveys at least 12 days apart. The methodology specifies that one visit be conducted during each of these four periods: 10 to 30 June, 1 to 21 July, 22 July to 11 August, and 12 August to 2 September.

The surveys consisted of slowly moving through the habitat while listening for the songs and calls of the three target species. During the surveys performed for the SWFL, taped recordings of their vocalizations were broadcast, a method consistent with the protocol, and likewise for the Western Yellow-billed Cuckoo. The SWFL protocol requires that vocalizations be played every 20 to 30 meters through the habitat, and the WYBC protocol requires intervals of 100 meters. All bird species detected during the surveys were recorded in field notes.

Initially, it was determined that two biologist/mornings were required to cover the suitable habitat patches at Hostettler Road. However, during the first two surveys some unsuitable patches within the habitat were identified, and logistics were refined; thereafter, the area was covered in a single morning. SWFL surveys were performed by Chet McGaugh (federal Endangered Species Permit TE836517-5), Stephen J. Myers (TE804203-7), John F. Green (TE785148-7), and Mike San Miguel (TE831910-1). Tables 1 through 4 summarize the surveys.

Table 1. Survey Data for San Jacinto River Area

Date	Observer	Time	Temp. (°F)	Wind (mph)	Sky (% cover)
18 April 2007	Stephen J. Myers	0705-1135	52-65	1-5	20-70
3 May 2007	Chet McGaugh	0625-1100	55-76	-	-
14 May 2007	Stephen J. Myers	0715-1135	60-78	0-3	0
24 May 2007†	Chet McGaugh	0620-1055	50-77	-	-
5 June 2007†	Chet McGaugh	0625-1110	66-74	-	-
22 June 2007†	Chet McGaugh	0635-1015	64-80	-	0
3 July 2007†	John F. Green	0550-0815	61-75	0-3	0
17 July 2007†	Stephen J. Myers	0700-1100	68-86	0-3	0

† SWF and LBV surveys conducted concurrently. Other surveys were for LBV only.

Table 2. Survey Data for Nichols Road Area

Date	Observer	Time	Temp. (°F)	Wind (mph)	Sky (% cover)
19 April 2007	Stephen J. Myers	0730-1120	52-70	0-3	0-10
1 May 2007	Stephen J. Myers	0705-1110	60-72	0-2	100
11 May 2007	John F. Green	0705-1045	60-79	0-3	0
22 May 2007†	Chet McGaugh	0550-0900	58-62	0-4	100
1 June 2007†	Chet McGaugh	0620-0920	54-?	-	100
22 June 2007†‡	Stephen J. Myers	0700-1000	69-84	0	0
2 July 2007†	Chet McGaugh	0640-1050	54-80	0	0
13 July 2007†‡	Chet McGaugh	0555-1030	52-78	0	0
25 July 2007‡	Stephen J. Myers	0700-1015	74-88	0	0
21 Aug 2007‡	Chet McGaugh	0645-1005	75-87	0-3	0

† SWF and LBV surveys conducted concurrently. ‡Western Yellow-billed Cuckoo surveys also conducted on these days. Other surveys were for LBV only.

Table 3. Survey Data for Lake Street Area

Date	Observer	Time	Temp. (°F)	Wind (mph)	Sky (% cover)
30 April 2007	Stephen J. Myers	0700-1120	59-74	0-3	100-60
10 May 2007	Chet McGaugh	0615-0915	50-78	0	0
21 May 2007†	Chet McGaugh	0635-0930	57-58	0	100
1 June 2007†	Stephen J. Myers	0640-1015	57-66	0	100-70
12 June 2007‡	Chet McGaugh	0610-0910	warm	0	0
25 June 2007††	Stephen J. Myers	0705-1020	64-74	0	0
5 July 2007†	Chet McGaugh	0640-1000	72-82	-	-
15 July 2007†	Mike San Miguel	0700-1000	67-82	0-2	0
24 July 2007‡	Chet McGaugh	0630-0915	66-78	0	0
23 Aug 2007	Chet McGaugh	0625-1000	69-82	0	0

† SWF and LBV surveys conducted concurrently. ‡Western Yellow-billed Cuckoo surveys also conducted on these days. Other surveys were for LBV only.

Table 4. Survey Data for Hostettler Road Area

Date	Observer	Time	Temp. (°F)	Wind (mph)	Sky (% cover)
17 May 2007	Stephen J. Myers	0700-1115	57-73	0-4	100-0
18 May 2007*	John F. Green	0705-0910	57-63	0-3	100-0
29 May 2007*†	John F. Green Chet McGaugh	0615-0830	55-60	3-5	100-0
8 June 2007†	John F. Green	0545-0950	52-65	0-5	0
19 June 2007‡	Stephen J. Myers	0600-1050	58-81	0	0
29 June 2007†	Chet McGaugh	0620-1000	60-74	0	0
10 July 2007†	Stephen J. Myers	0520-0910	66-73	0	100
17 July 2007†	John F. Green	0635-0955	63-72	3-8	70-0
20 July 2007‡	Chet McGaugh	0630-1020	-	-	-
30 July 2007‡	Chet McGaugh	0650-1025	64-78	-	-
27 Aug 2007‡	Stephen J. Myers	0645-0950	70-84	0-1	0
17 July 2007†	John F. Green	0635-0955	63-72	3-8	70-0
20 July 2007‡	Chet McGaugh	0630-1020	-	-	-

* During the first two surveys the area was surveyed over two survey days, but as logistics and habitat suitability were refined, it became possible to survey the area during a single morning. † SWF and LBV surveys conducted concurrently. ‡Western Yellow-billed Cuckoo surveys also conducted on these days. Other surveys were for LBV only.

3.0 RESULTS

3.1 Habitat Descriptions

3.1.1 San Jacinto River Area

In this area the transmission line route roughly parallels the San Jacinto River. The river banks are lined with narrow strips of intermittent willows (*Salix* spp.), Mulefat (*Baccharis salicifolia*), and widely scattered Fremont Cottonwoods (*Populus fremontii*). The river contained surface water at the time of the surveys. In addition to the river, surveys were performed on a short tributary at the survey area's western end. This tributary is lined with fairly dense willow scrub and woodland, and contained surface water.

3.1.2 Nichols Road Area

Both north and south of Nichols Road, Temescal Wash contains willow dominated riparian woodland and scrub, along with alkaline marsh habitat. The stream flowed through this area during the entire survey period.

3.1.3 Lake Street Area

Temescal Wash in the area of Lake Street is lined with a mixture of native and nonnative vegetation. Gum trees (*Eucalyptus* spp.) are dominant, with intermittent thickets of willows and scattered Fremont Cottonwoods. Surface water appeared to be perennial in this area.

3.1.4 Hostettler Road Area

This area is along Temescal Wash, and is down stream and nearly contiguous with the Lake Street area. Some Eucalyptus occurs, but most of the vegetation is native willows, cottonwoods, and Coast Live Oaks (*Quercus agrifolia*). The creek was flowing throughout the survey period.

3.2 Survey Results

At all sites combined, 125 bird species were detected. Among the most frequently detected species were the following birds that are typical of lowland riparian habitats in southern California: Mourning Dove (*Zenaida macroura*), Black-chinned Hummingbird (*Archilochus alexandri*), Nuttall's Woodpecker (*Picoides nuttallii*), Black Phoebe (*Sayornis nigricans*), Bushtit (*Psaltiriparus minimus*), House Wren (*Troglodytes aedon*), Yellow Warbler (*Dendroica petechia*), Common Yellowthroat (*Geothlypis trichas*), Song Sparrow (*Melospiza melodia*), and Lesser Goldfinch (*Carduelis psaltria*). A few, non-sensitive species of interest were found, including several nesting pairs of Purple Finches (*Carpodacus purpurascens*, uncommon in lowland riparian habitats), one pair of Mountain Chickadees (*Poecile gambeli*, uncommon away from coniferous forests), and a singing male Summer Tanager (*Piranga rubra*, uncommon in summer in cismontane southern California).

3.2.1 Southwestern Willow Flycatcher

No Southwestern Willow Flycatchers were detected at any of the survey areas. On 17 and 18 May, four Willow Flycatchers were observed and heard in the Hostettler Road survey area.

On 14 May, a Willow Flycatcher was found at the San Jacinto River survey area. These dates coincide with the peak period of spring migration of the species in southern California, and the birds were not found on subsequent surveys. Therefore, AMEC concludes that these birds were migrants of a more northerly subspecies, and not Southwestern Willow Flycatchers.

3.2.2 Least Bell's Vireo

A singing Least Bell's Vireo was detected at the San Jacinto River survey area on 3 May, and remained throughout the survey period. A female was not observed, and it may have been a territorial, unmated male. The territory was along the tributary at the west end of the survey area (refer to Figure 2).

At Hostettler Road, a singing Least Bell's Vireo was found on 17 July, but was not present before or after that date (refer to Figure 5). Two observations were made during the morning's survey, most likely of the same bird. Presumably, this bird dispersed from either up stream or down stream, and may have been an unmated male.

No Least Bell's Vireos were detected at Nichols Road or Lake Street.

3.2.3 Western Yellow-billed Cuckoo

No Western Yellow-billed Cuckoos were detected at any of the survey areas.

3.2.4 Critical Habitat

The project area is not within designated Critical Habitat for either the Least Bell's Vireo or Southwestern Willow Flycatcher.

4.0 LITERATURE CITED

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Appendix A

Bird Species List

Appendix A Bird Species List

This list includes all species of birds detected during focused surveys conducted in spring-summer 2007. Nomenclature and taxonomy follows the American Ornithologists' Union (1998), and supplements through 2006.

Family	Common Name	Scientific Name
Anatidae - Ducks, Geese, and Swans	Wood Duck	(<i>Aix sponsa</i>)
	Gadwall	(<i>Anas strepera</i>)
	Mallard	(<i>Anas platyrhynchos</i>)
	Cinnamon Teal	(<i>Anas cyanoptera</i>)
	Green-winged Teal	(<i>Anas crecca</i>)
Odontophoridae – New World Quail	California Quail	(<i>Callipepla californica</i>)
Podicipedidae – Grebes	Pied-billed Grebe	(<i>Podilymbus podiceps</i>)
Phalacrocoracidae - Cormorants	Double-crested Cormorant	(<i>Phalacrocorax auritus</i>)
Ardeidae - Herons and Bitterns	Great Blue Heron	(<i>Ardea herodias</i>)
	Great Egret	(<i>Ardea alba</i>)
	Snowy Egret	(<i>Egretta thula</i>)
	Green Heron	(<i>Butorides virescens</i>)
	Black-crowned Night-Heron	(<i>Nycticorax nycticorax</i>)
Cathartidae - Vultures	Turkey Vulture	(<i>Cathartes aura</i>)
Acciptridae - Hawks, Kites, and allies	Sharp-shinned Hawk	(<i>Accipiter striatus</i>)
	Cooper's Hawk	(<i>Accipiter cooperii</i>)
	Red-shouldered Hawk	(<i>Buteo lineatus</i>)
	Red-tailed Hawk	(<i>Buteo jamaicensis</i>)
Falconidae - Falcons and Caracaras	American Kestrel	(<i>Falco sparverius</i>)
Rallidae – Rails, Gallinules, and Coots	Virginia Rail	(<i>Rallus limicola</i>)
	Sora	(<i>Porzana carolina</i>)
	American Coot	(<i>Fulica americana</i>)
Charadriidae - Plovers and allies	Killdeer	(<i>Charadrius vociferous</i>)
Recurvirostridae – Stilts and Avocets	Black-necked Stilt	(<i>Himantopus mexicanus</i>)
	American Avocet	(<i>Recurvirostra americana</i>)
Scolopacidae – Sandpipers and Phalaropes	Solitary Sandpiper	(<i>Tringa solitaria</i>)
	Least Sandpiper	(<i>Calidris minutilla</i>)
	Long-billed Dowitcher	(<i>Limnodromus scolopaceus</i>)
	Wilson's Snipe	(<i>Gallinago delicata</i>)
Laridae - Gulls and Terns	Caspian Tern	(<i>Sterna caspia</i>)

Family	Common Name	Scientific Name
Columbidae - Pigeons and Doves	Rock Pigeon	(<i>Columba livia</i>) – Nonnative
	Eurasian Collared-Dove	(<i>Streptopelia decaocto</i>) - Nonnative
	Mourning Dove	(<i>Zenaida macroura</i>)
	Common Ground-Dove	(<i>Columbina passerine</i>)
Cuculidae – Cuckoos	Greater Roadrunner	(<i>Geococcyx californianus</i>)
Apodidae - Swifts	White-throated Swift	(<i>Aeronautes saxatalis</i>)
	Vaux's Swift	(<i>Chaetura vauxi</i>)
Trochilidae - Hummingbirds	Black-chinned Hummingbird	(<i>Archilochus alexandri</i>)
	Anna's Hummingbird	(<i>Calypte anna</i>)
	Costa's Hummingbird	(<i>Calypte costae</i>)
	Allen's Hummingbird	(<i>Selasphorus sasin</i>)
Alcedinadae – Kingfishers	Belted Kingfisher	(<i>Ceryle alcyon</i>)
Picidae - Woodpeckers	Nuttall's Woodpecker	(<i>Picoides nuttallii</i>)
	Downy Woodpecker	(<i>Picoides pubescens</i>)
	Northern Flicker	(<i>Colaptes auratus</i>)
Tyrannidae - Tyrant Flycatchers	Western Wood-Pewee	(<i>Contopus sordidulus</i>)
	Willow Flycatcher	(<i>Empidonax traillii</i>)
	Hammond's Flycatcher	(<i>Empidonax hammondi</i>)
	Pacific-slope Flycatcher	(<i>Empidonax difficilis</i>)
	Black Phoebe	(<i>Sayornis nigricans</i>)
	Say's Phoebe	(<i>Sayornis saya</i>)
	Ash-throated Flycatcher	(<i>Myiarchus cinerascens</i>)
	Cassin's Kingbird	(<i>Tyrannus vociferans</i>)
	Western Kingbird	(<i>Tyrannus verticalis</i>)
Laniidae – Shrikes	Loggerhead Shrike	(<i>Lanius ludovicianus</i>)
Vireonidae - Vireos	Least Bell's Vireo	(<i>Vireo bellii pusillus</i>)
	Cassin's Vireo	(<i>Vireo cassinii</i>)
	Warbling Vireo	(<i>Vireo gilvus</i>)
Corvidae - Jays, Crows, and allies	Western Scrub-Jay	(<i>Aphelocoma californica</i>)
	American Crow	(<i>Corvus brachyrhynchos</i>)
	Common Raven	(<i>Corvus corax</i>)
Hirundinidae - Swallows	Purple Martin	(<i>Progne subis</i>)
	Tree Swallow	(<i>Tachycineta bicolor</i>)
	Violet-green Swallow	(<i>Tachycineta thalassina</i>)
	Northern Rough-winged Swallow	(<i>Stelgidopteryx serripennis</i>)
	Cliff Swallow	(<i>Petrochelidon pyrrhonota</i>)

Family	Common Name	Scientific Name
	Barn Swallow	(<i>Hirundo rustica</i>)
Paridae – Titmice and Chickadees	Mountain Chickadee	(<i>Poecile gambeli</i>)
	Oak Titmouse	(<i>Baeolophus inornatus</i>)
Aegithalidae - Bushtits	Bushtit	(<i>Psaltirparus minimus</i>)
Sittidae – Nuthatches	White-breasted Nuthatch	(<i>Sitta carolinensis</i>)
Troglodytidae - Wrens	Bewick's Wren	(<i>Thryomanes bewickii</i>)
	House Wren	(<i>Troglodytes aedon</i>)
	Marsh Wren	(<i>Cistothorus palustris</i>)
Sylviidae – Old World Warblers and Gnatcatchers	Blue-gray Gnatcatcher	(<i>Polioptila caerulea</i>)
	California Gnatcatcher	(<i>Polioptila californica</i>)
Turdidae - Thrushes	Swainson's Thrush	(<i>Catharus ustulatus</i>)
	American Robin	(<i>Turdus migratorius</i>)
Timaliidae – Babblers	Wrentit	(<i>Chamaea fasciata</i>)
Mimidae – Mockingbirds and Thrashers	Northern Mockingbird	(<i>Mimus polyglottos</i>)
	California Thrasher	(<i>Toxostoma redivivum</i>)
Sturnidae - Starlings and Mynas	European Starling	(<i>Sturnus vulgaris</i>) - Nonnative
Motacillidae – Wagtails and Pipits	American Pipit	(<i>Anthus rubescens</i>)
Ptilonotidae - Silky-Flycatchers	Phainopepla	(<i>Phainopepla nitens</i>)
Parulidae - Warblers	Orange-crowned Warbler	(<i>Vermivora celata</i>)
	Nashville Warbler	(<i>Vermivora ruficapilla</i>)
	Yellow Warbler	(<i>Dendroica petechia</i>)
	Black-throated Gray Warbler	(<i>Dendroica nigrescens</i>)
	Townsend's Warbler	(<i>Dendroica townsendi</i>)
	Hermit Warbler	(<i>Dendroica occidentalis</i>)
	MacGillivray's Warbler	(<i>Oporornis tolmiei</i>)
	Common Yellowthroat	(<i>Geothlypis trichas</i>)
	Wilson's Warbler	(<i>Wilsonia pusilla</i>)
	Yellow-breasted Chat	(<i>Icteria virens</i>)
	Summer Tanager	(<i>Piranga rubra</i>)
Thraupidae – Tanagers	Western Tanager	(<i>Piranga ludoviciana</i>)
Emberizidae - Towhees and Sparrows	Spotted Towhee	(<i>Pipilo maculatus</i>)
	California Towhee	(<i>Pipilo crissalis</i>)
	Southern California Rufous-crowned Sparrow	(<i>Aimophila ruficeps canescens</i>)
	Chipping Sparrow	(<i>Spizella passerine</i>)
	Brewer's Sparrow	(<i>Spizella breweri</i>)
	Vesper Sparrow	(<i>Pooecetes gramineus</i>)

Family	Common Name	Scientific Name
	Lark Sparrow	<i>(Chondestes grammacus)</i>
	Bell's Sage Sparrow	<i>(Amphispiza belli belli)</i>
	Savannah Sparrow	<i>(Passerculus sandwichensis)</i>
	Fox Sparrow	<i>(Passerella iliaca)</i>
	Song Sparrow	<i>(Melospiza melodia)</i>
	Lincoln's Sparrow	<i>(Melospiza lincolnii)</i>
	White-crowned Sparrow	<i>(Zonotrichia leucophrys)</i>
	Golden-crowned Sparrow	<i>(Zonotrichia atricapilla)</i>
Cardinalidae - Cardinals, Grosbeaks, Buntings	Black-headed Grosbeak	<i>(Pheucticus melanocephalus)</i>
	Blue Grosbeak	<i>(Passerina caerulea)</i>
	Lazuli Bunting	<i>(Passerina amoena)</i>
Icteridae - Blackbirds, Cowbirds, Grackles, Orioles	Red-winged Blackbird	<i>(Agelaius phoeniceus)</i>
	Western Meadowlark	<i>(Sturnella neglecta)</i>
	Brewer's Blackbird	<i>(Euphagus cyanocephalus)</i>
	Great-tailed Grackle	<i>(Quiscalus mexicanus)</i>
	Brown-headed Cowbird	<i>(Molothrus ater)</i>
	Hooded Oriole	<i>(Icterus cucullatus)</i>
	Bullock's Oriole	<i>(Icterus bullockii)</i>
Fringillidae - Finches and allies	Purple Finch	<i>(Carpodacus purpurascens)</i>
	House Finch	<i>(Carpodacus mexicanus)</i>
	Lesser Goldfinch	<i>(Carduelis psaltria)</i>
	Lawrence's Goldfinch	<i>(Carduelis lawrencei)</i>
	American Goldfinch	<i>(Carduelis tristis)</i>
Passeridae - Old World Sparrows	House Sparrow	<i>(Passer domesticus)</i> – Nonnative

Appendix B

SWF Survey Forms

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

Site Name SCE Valley - Ivyglen - San Jacinto Rivers State CA County Riverside
 USGS Quad Name 7.5' Romoland & Lake Elsinore Elevation ~1400 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 3733000 E 477600 UTM Datum NAD 27 (NAD27 preferred)
 Stop: N 3732800 E 476300 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>Chet McGaugh</u>	Date <u>24 May 07</u> Start <u>0620</u> Stop <u>1055</u> Total hrs <u>4.5</u>	0	0	0	N	Y	N	
2 <u>Chet McGaugh</u>	Date <u>5 June 07</u> Start <u>0625</u> Stop <u>1110</u> Total hrs <u>4.75</u>	0	0	0	N	N	N	
3 <u>Chet McGaugh</u>	Date <u>22 June 07</u> Start <u>0635</u> Stop <u>1015</u> Total hrs <u>3.75</u>	0	0	0	N	Y	N	
4 <u>John F. Green</u>	Date <u>3 July 07</u> Start <u>0550</u> Stop <u>0815</u> Total hrs <u>2.5</u>	0	0	0	N	Y	N	
5 <u>Stephen J. Myers</u>	Date <u>17 July</u> Start <u>0700</u> Stop <u>1100</u> Total hrs <u>4</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 <u>N/A</u> If yes, report color combination(s) in the comments section on back of form		
Total survey hrs <u>18.5</u>		0	0	0	0			

Reporting Individual Stephen J. Myers Date Report Completed 7 Dec 2007
 US Fish and Wildlife Service Permit # TE804203-7 AZ Game and Fish Department (or other state) Permit # _____

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 Stephen J. Myers Phone # 951 369-8060
Affiliation AMEC Earth & Environmental E-mail stephen.j.myers@amec.com
Site Name SCE Valley-Inyogen - San Jacinto River Date Report Completed 7 Dec 07

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

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. N/A

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) _____

Length of area surveyed: ~1.1 mi, (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: Salix laevigata, S. lasiolepis, Baccharis salicifolia

Average height of canopy (Do not put a range): 25 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: _____ (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)

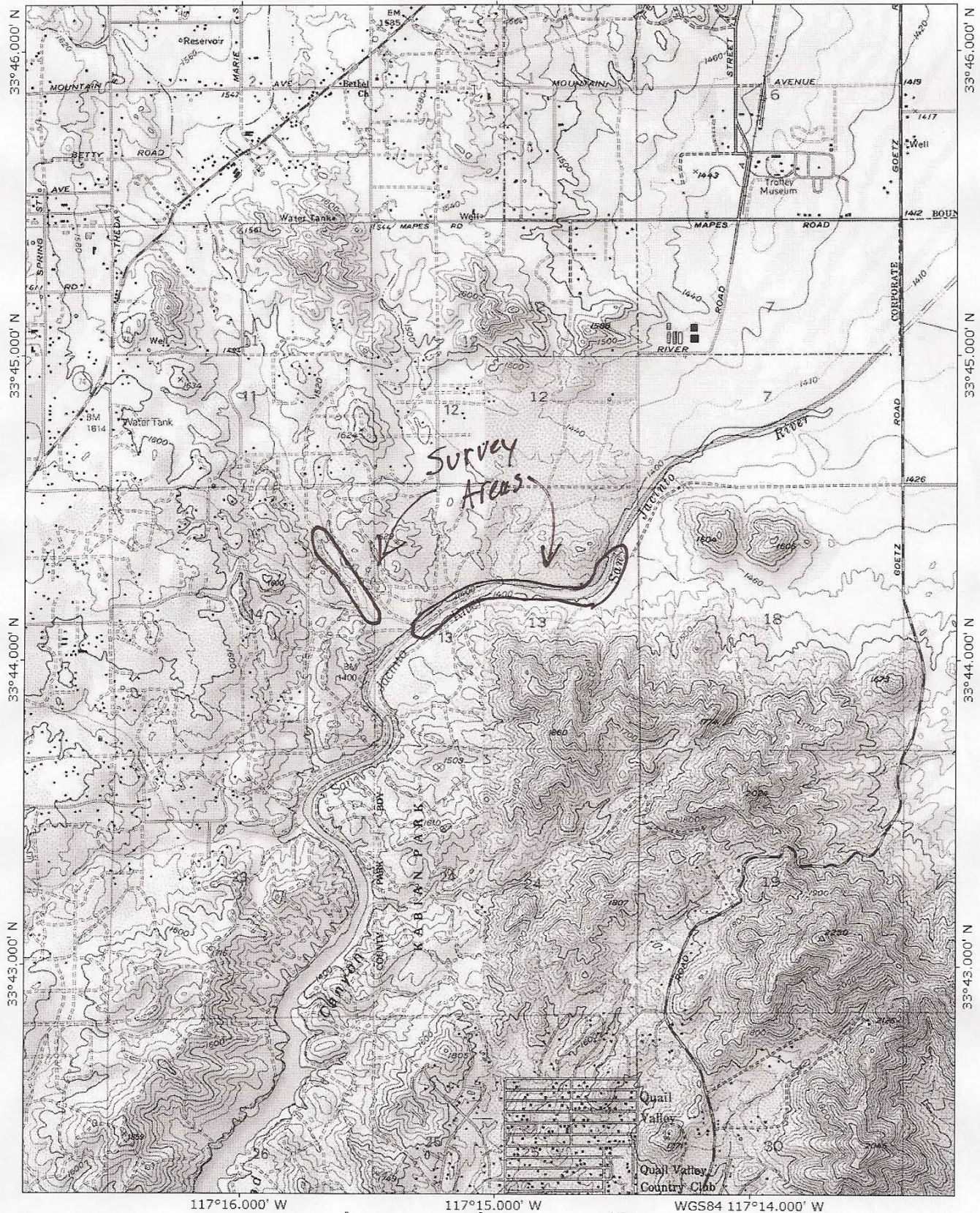
River flow became intermittent in July.

WIFL Detection Locations:

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

SCE Valley-Ivyglen: San Jacinto River Area

TOPO! map printed on 12/07/07 from "California.tpo" and "Untitled.tpg"
 117°16.000' W 117°15.000' W WGS84 117°14.000' W



7.5' Romoland & Lake Elsinore quads

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

Site Name SCE Valley-Ivyglen - Nichols Road State CA County Riverside
 USGS Quad Name 7.5' Lake Elsinore Elevation ~1300 (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 3730700 E 466400 UTM Datum NAD27 (NAD27 preferred)
 Stop: N 3729200 E 466800 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>Chet McGaugh</u>	Date <u>22 May 07</u> Start <u>0550</u> Stop <u>0900</u> Total hrs <u>3.25</u>	0	0	0	N	Y	N	
2 <u>Chet McGaugh</u>	Date <u>1 June 07</u> Start <u>0620</u> Stop <u>0920</u> Total hrs <u>3</u>	0	0	0	N	Y	N	
3 <u>Stephen J. Myers</u>	Date <u>22 June 07</u> Start <u>0700</u> Stop <u>1000</u> Total hrs <u>3</u>	0	0	0	N	Y	N	
4 <u>Chet McGaugh</u>	Date <u>2 July 07</u> Start <u>0640</u> Stop <u>1050</u> Total hrs <u>4</u>	0	0	0	N	Y	N	
5 <u>Chet McGaugh</u>	Date <u>13 July 07</u> Start <u>0555</u> Stop <u>1030</u> Total hrs <u>4.5</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>17.75</u>		0	0	0	0	If yes, report color combination(s) in the comments section on back of form		

Reporting Individual Stephen J. Myers Date Report Completed 7 Dec 07
 US Fish and Wildlife Service Permit # TE 804203-7 AZ Game and Fish Department (or other state) Permit # _____

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 Stephen J. Myers Phone # 951 369-8060
Affiliation AMEC Earth & Environmental E-mail stephen.j.myers@amec.com
Site Name _____ Date Report Completed 7 Dec 2007

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

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. N/A

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) _____

Length of area surveyed: ~0.9 mi. (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: Salix laevigata, Salix lasiolepis, Baccharis salicifolia

Average height of canopy (Do not put a range): 30 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: _____ (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

SCE Valley-Ivyglen: Nichols Road Area

TOPO! map printed on 12/07/07 from "California.tpo" and "Untitled.tpg"

117°23.000' W

117°22.000' W

117°21.000' W

WGS84 117°20.000' W

33°44.000' N

33°43.000' N

33°42.000' N

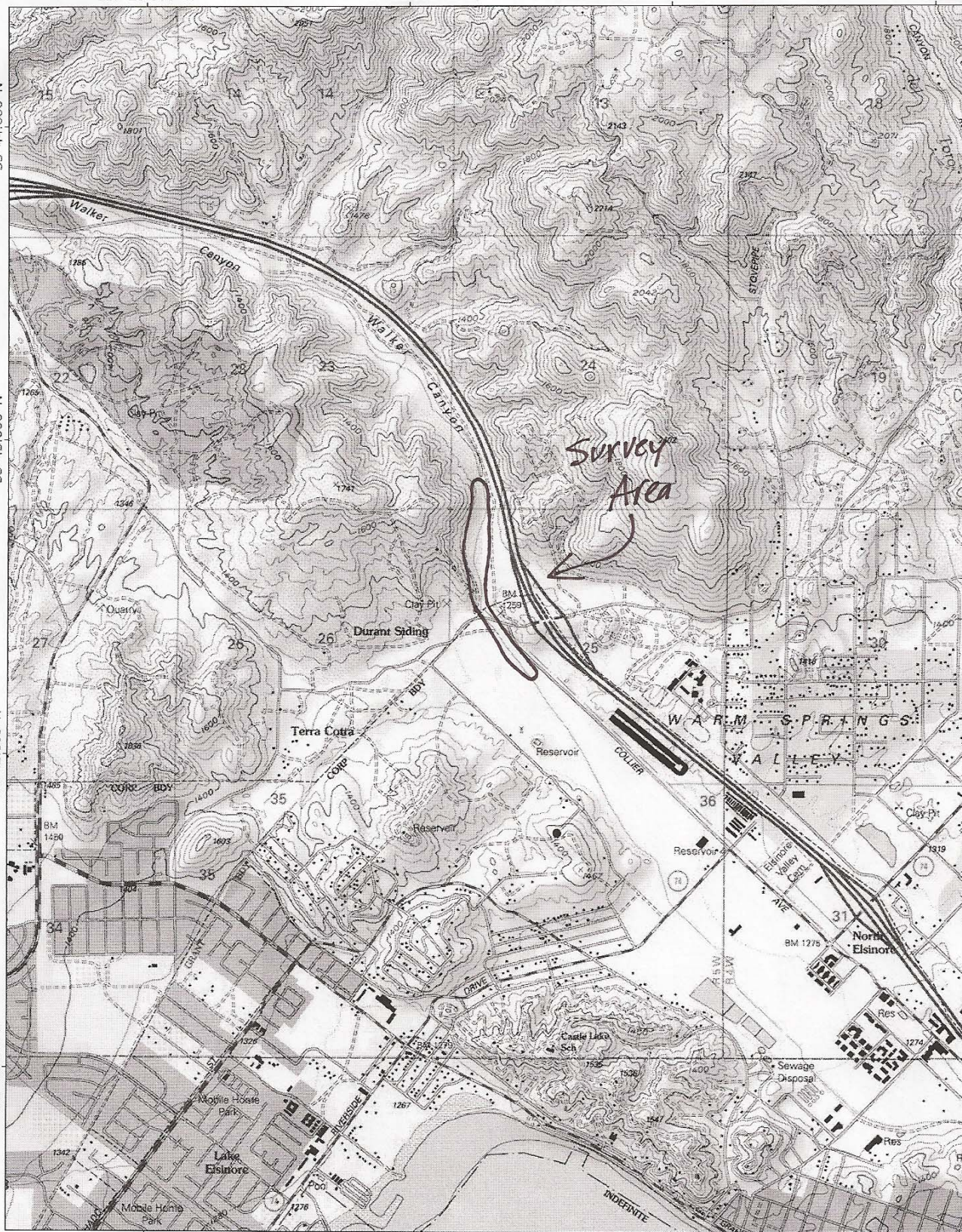
33°41.000' N

33°44.000' N

33°43.000' N

33°42.000' N

33°41.000' N

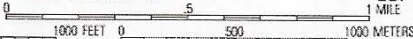


117°23.000' W

117°22.000' W

117°21.000' W

WGS84 117°20.000' W



Printed from TOPO! ©2001 National Geographic Holdings (www.topo.com)

USGS 7.5' Lake Elsinore quad

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

Site Name SCE Valley-Inylen - Lake street State CA County Riverside
 USGS Quad Name 7.5' Alberhill Elevation ~1220 (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 37 32 000 E 463600 UTM Datum NAD27 (NAD27 preferred)
 Stop: N 37 32 300 E 462700 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>Chet McGaugh</u>	Date <u>21 May 07</u> Start <u>0635</u> Stop <u>0930</u> Total hrs <u>3</u>	0	0	0	N	Y	N	
2 <u>Stephen J. Myers</u>	Date <u>June 07</u> Start <u>0640</u> Stop <u>1015</u> Total hrs <u>3.5</u>	0	0	0	N	Y	N	
3 <u>Stephen J. Myers</u>	Date <u>25 June</u> Start <u>0705</u> Stop <u>1020</u> Total hrs <u>3.25</u>	0	0	0	N	Y	N	
4 <u>Chet McGaugh</u>	Date <u>5 July</u> Start <u>0640</u> Stop <u>1000</u> Total hrs <u>3.5</u>	0	0	0	N	N	N	
5 <u>Mike San Miguel</u>	Date <u>15 July</u> Start <u>0700</u> Stop <u>1000</u> Total hrs <u>3</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>16.25</u>		0	0	0	0			

Reporting Individual Stephen J. Myers Date Report Completed 7 Dec 2007
 US Fish and Wildlife Service Permit # FE804203-7 AZ Game and Fish Department (or other state) Permit # _____

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 Stephen J. Myers Phone # 951 369-8060
Affiliation AMEC Earth & Environmental E-mail stephen.j.myers@amec.com
Site Name SCE Valley - Ivyglon - Lake Street Date Report Completed 7 Dec 2007

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

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. N/A

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) _____

Length of area surveyed: 0.6 mi. (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: Eucalyptus camaldulensis, Salix laevigata

Average height of canopy (Do not put a range): 50 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: _____ (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

SCE Valley - Ivyglen: Lake Street Area

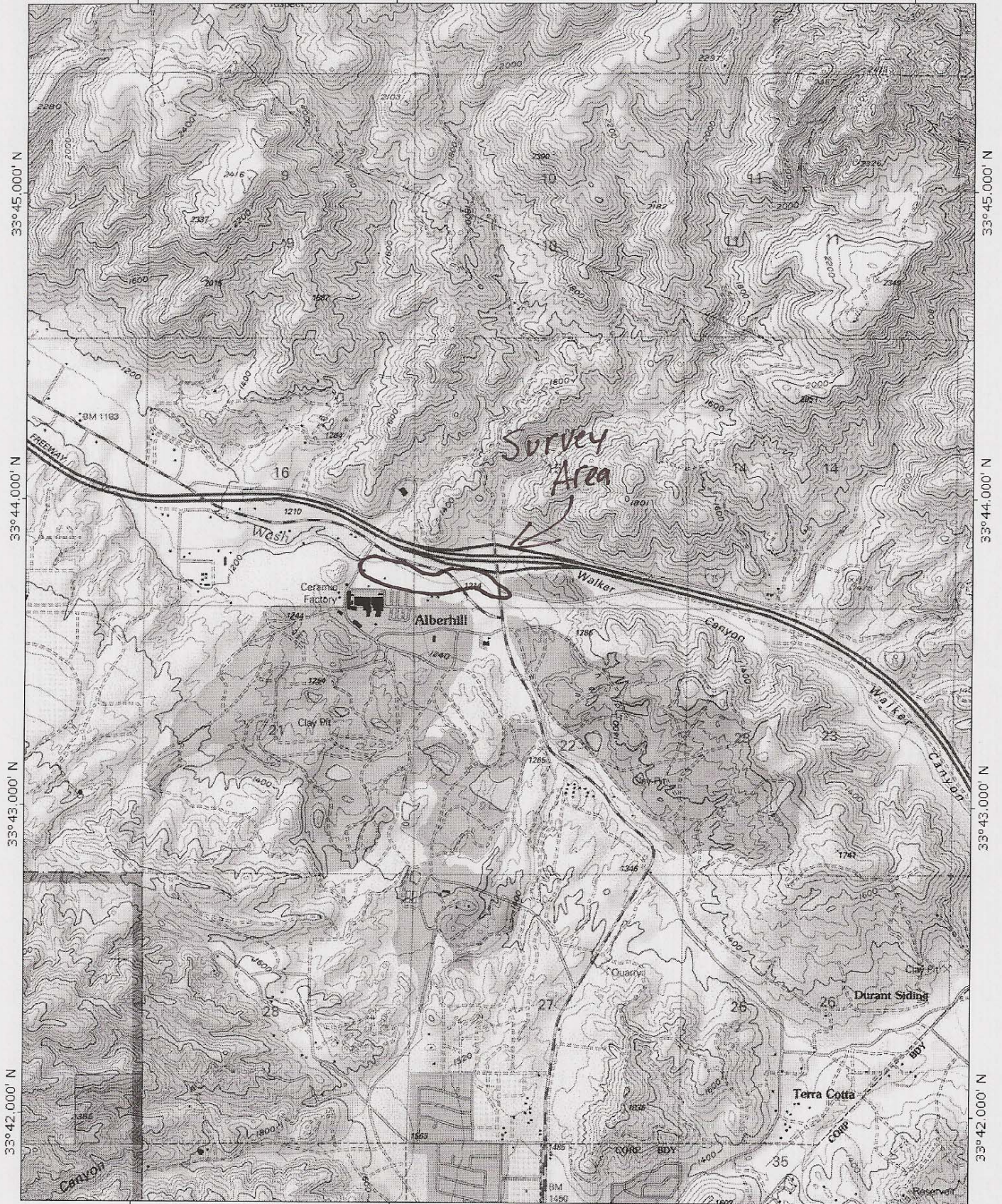
TOPO! map printed on 12/07/07 from "California.tpo" and "Untitled.tpg"

117°25.000' W

117°24.000' W

117°23.000' W

WGS84 117°22.000' W



117°25.000' W

117°24.000' W

117°23.000' W

WGS84 117°22.000' W

0 1000 FEET 0 500 1000 METERS

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USGS 7.5' Alberhill quad

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

Site Name SCE Valley - Ivyglan, - Hostetter Road State CA County Riverside
 USGS Quad Name USGS 7.5' Alberhill Elevation 1200 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 3732300 E 462700 UTM Datum NAD27 (NAD27 preferred)
 Stop: N 3732600 E 461400 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 John F. Green Chet McGaugh	Date <u>29 May</u> Start <u>0615</u> Stop <u>0830</u> Total hrs <u>2.25</u>	0	0	0	N	Y	N	
2 John F. Green	Date <u>8 June 07</u> Start <u>0545</u> Stop <u>0950</u> Total hrs <u>4</u>	0	0	0	N	Y	N	
3 Chet McGaugh	Date <u>29 June</u> Start <u>0620</u> Stop <u>1000</u> Total hrs <u>3.75</u>	0	0	0	N	Y	N	
4 Stephen J. Myers	Date <u>10 July</u> Start <u>0520</u> Stop <u>0910</u> Total hrs <u>4</u>	0	0	0	N	Y	N	
5 John F. Green	Date <u>17 July</u> Start <u>0635</u> Stop <u>0955</u> Total hrs <u>3.5</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>19.5</u>		0	0	0	0			

Reporting Individual Stephen J. Myers Date Report Completed 7 Dec 2007
 US Fish and Wildlife Service Permit # TE 804203-7 AZ Game and Fish Department (or other state) Permit # _____

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 Stephen J. Myers Phone # 951 369-8060
Affiliation AMEC Earth & Environmental E-mail stephen.j.myers@amec.com
Site Name _____ Date Report Completed 7 Dec 07

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

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. N/A

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) _____

Length of area surveyed: ~0.8 mi. (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: Salix laevigata, Populus tremontii, Baccharis salicifolia

Average height of canopy (Do not put a range): 40 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: _____ (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

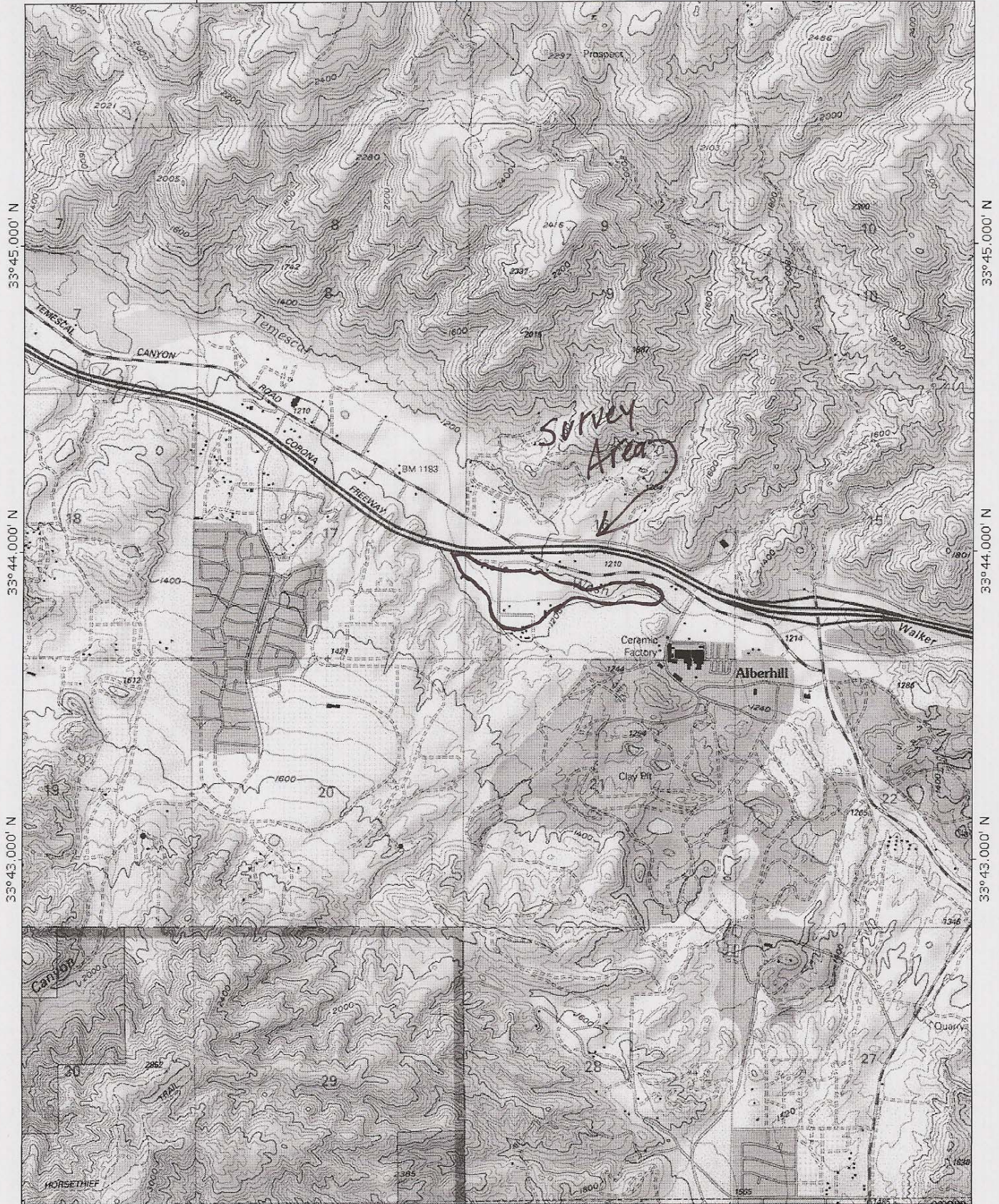
SCE Valley-Ivyglen: Hostettler Road Area

TOPO! map printed on 12/07/07 from "California.tpo" and "Untitled.tpg"

117°26.000' W

117°25.000' W

WGS84 117°24.000' W



0 1000 FEET 0 500 1000 METERS

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USGS 7.5' Alberhill quad

**VALLEY-IVYGLEN SUBTRANSMISSION LINE PROJECT
2010 FOCUSED SURVEYS FOR THE LEAST BELL'S VIREO,
SOUTHWESTERN WILLOW FLYCATCHER,
AND WESTERN YELLOW-BILLED CUCKOO**



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17 September 2010

**Stephen J. Myers
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**Valley-Ivyglen Subtransmission Line Project
2010 Focused Surveys for the Least Bell's Vireo,
Southwestern Willow Flycatcher,
and Western Yellow-billed Cuckoo**

1.0 INTRODUCTION

This report presents the findings of focused surveys for the Least Bell's Vireo (*Vireo belli pusillus*), Southwestern Willow Flycatcher (*Empidonax traillii extimus*), and Western Yellow-billed Cuckoo (*Coccyx americana occidentalis*) at suitable habitat patches along the Valley-Ivyglen Subtransmission Line Project west of Interstate 15 (see Map 1). The surveys were performed to satisfy requirements of the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) (Riverside County 2003). Portions of the alignment were surveyed for sensitive riparian birds in 2007 (AMEC 2007).

1.1 Project Description

The proposed Valley-Ivyglen Subtransmission Line Project ultimately involves the construction of a new 115kV subtransmission line which will connect the Valley Substation to the Ivyglen Substation. This subtransmission line will be installed in an existing right-of-way (ROW) where available, and new ROWs where none exist. The Valley Substation is located in the southwest corner of an unincorporated area known as Romoland, adjacent to the city of Perris. The Ivyglen Substation is located in the southeastern portion of unincorporated Corona, along Temescal Canyon Road near Glen Ivy Hot Springs. The Ivyglen Substation is approximately 19 miles west of the Valley Substation.

The entire project is located in western Riverside County, California. The proposed subtransmission line routes surveyed in 2010 traverse unincorporated county lands, and the City of Lake Elsinore. The alignments traverse portions of the *Lake Elsinore, California*, *Alberhill, California*, and *Lake Mathews, California* United States Geological Survey (USGS) 7.5-minute series topographic quadrangles.

1.2 Species Information

1.2.1 Least Bell's Vireo

Least Bell's Vireo (LBV) is a small, migratory, insectivorous bird which occurs in willow-dominated riparian habitats. Although this bird is drab in plumage and can be secretive within its densely vegetated habitat, males are easy to detect on the breeding grounds due to their conspicuous, diagnostic, and frequently given song. Nesting habitat of this species is restricted to willow and/or mulefat dominated riparian scrub along permanent or nearly permanent streams (Grinnell and Miller 1944, Goldwasser 1978, Franzreb 1987, Garrett and Dunn 1981). Least Bell's Vireos were formerly widespread and common throughout low-lying riparian habitats of central and southern California, but are now restricted primarily to a limited number of locations in southern California. Habitat reduction has contributed to this species' significant population declines. Nest parasitism by Brown-headed Cowbirds (*Molothrus ater*) has also seriously impacted reproductive success by Least Bell's Vireo, as well as many other species which build cup nests (Goldwasser 1978). Populations are recovering as a result of habitat

restoration and cowbird control efforts. Least Bell's Vireo is listed as Endangered by the California Department of Fish and Game (CDFG) and by the U.S. Fish and Wildlife Service (USFWS). A final determination of critical habitat was made in 1994 (USFWS 1994).

1.2.2 Southwestern Willow Flycatcher

The Southwestern Willow Flycatcher (SWFL) is a small, brownish-olive flycatcher that was formerly considered a common summer resident in southern California's lowland willow thickets and in low elevation mountain canyons (Garrett and Dunn 1981). Following the large-scale invasion of southern California by Brown-headed Cowbirds in the 1920s, along with loss of willow riparian habitat, this subspecies was nearly extirpated from southern California. The Willow Flycatcher was listed by the State of California as endangered in 1990. The subspecies *E. t. extimus* (Southwestern Willow Flycatcher) is listed as endangered by the U.S. Fish and Wildlife Service (USFWS). A final determination of critical habitat was made in October 2005 (USFWS 2005).

Surveys have revealed populations along the Santa Margarita and San Luis Rey rivers in San Diego County, in the San Bernardino Mountains and along the Mojave River in San Bernardino County, the Santa Ynez River in Santa Barbara County, the Santa Clara River in Los Angeles and Ventura counties, the South Fork of the Kern River in Kern County (Unitt 1987, Marshall 2000), and San Timoteo Creek in western Riverside County (R. McKernan, San Bernardino County Museum: pers. comm.). This subspecies also persists in the Lower Colorado River Valley (Marshall 2000, R. McKernan, San Bernardino County Museum, pers. comm.). Unlike LBVs, SWF populations do not appear to have gained any significant benefit from habitat restoration and cowbird control efforts.

The Southwestern Willow Flycatcher breeds in dense riparian habitats near surface water or saturated soil. Plant composition and habitat structure can vary greatly depending on the site, but willows often make up much of the understory. Populations along the Colorado River are known to use thickets dominated by both native and nonnative plants (especially Salt-Cedar [*Tamarix* spp.]). Dense patches of understory vegetation are a critical component of occupied habitat (Sogge *et al.* 2010).

1.2.3 Western Yellow-billed Cuckoo

The Western Yellow-billed Cuckoo (WYBC) is an extremely rare bird in California, with less than 50 pairs found during a statewide survey in 1986-1987, and no indication of more recent population increases. Most of California's Yellow-billed Cuckoos are found in two areas: along the Sacramento River between Red Bluff and Colusa, and along the South Fork Kern River near Weldon (Laymon 1998). Western Yellow-billed Cuckoo was listed as Endangered by the State of California in 1988.

Western Yellow-billed Cuckoos are long distance migrants and return to California from their South American wintering areas in late May and June. Occupied riparian forests are usually larger than 25 acres. Detection of Western Yellow-billed Cuckoos is difficult, as they have large home ranges in dense willow and cottonwood forests and call infrequently. Recorded playback of the species' calls is the recommended method for conducting surveys.

2.0 METHODS

2.1 Survey Areas

Areas considered to contain suitable habitat along the western portion of the project route are:

1. Temescal Wash, near Riverside Drive and Baker Street ("Baker Street Survey Area"): approximate UTM at south end of survey area: Zone 11, 468250E, 3727250N (WGS84); approximate UTM at north end of survey area: Zone 11, 467100E, 3728700N (WGS84). These points occur on lands mapped on the USGS 7.5 minute *Lake Elsinore, Calif.* quadrangle. See Map 2E.
2. Temescal Wash, near Nichols Road ("Nichols Road Survey Area"): approximate UTM at south end of survey area: Zone 11, 467600E, 3728400N (WGS84); approximate UTM at north end of survey area: 466500E, 3729700N (WGS84). These points occur on lands mapped on the USGS 7.5 minute *Lake Elsinore, Calif.* quadrangle. See Map 2D.
3. Temescal Wash, near Lake Street ("Lake Street Survey Area"): approximate UTM at east end of survey area: Zone 11, 463800E, 3732000N (WGS84); approximate UTM at west end of survey area: Zone 11, 462770E, 3732300N (WGS84). These points occur on lands mapped on the USGS 7.5 minute *Alberhill, Calif.* and *Lake Elsinore, Calif.* quadrangles respectively. See Map 2C.
4. Temescal Wash, near Hostettler Road ("Hostettler Road Survey Area"): approximate UTM at east end of survey area: Zone 11, 462750E, 3732300N (WGS84); approximate UTM at west end of survey area: Zone 11, 461300E, 3732800N (WGS84). These points occur on lands mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle. See Map 2C.
5. Unnamed Riparian Patch south of De Palma Road, approximately 0.3 mile south of Corona Lake (surveyed during same mornings as "Hostettler Road Survey Area"): approximate UTM near the center of survey area: Zone 11, 459200E, 3733600N (WGS84). This point occurs on land mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle. See Map 2B.
6. Unnamed Riparian Patch east of Temescal Canyon Road, approximately 0.3 mile northwest of Corona Lakes (surveyed during same mornings as "Hostettler Road Survey Area"): approximate UTM near the center of the survey area: Zone 11, 457900E, 3735000N (WGS84). This point occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle. See Map 2A.
7. Unnamed Riparian Patch southwest of Temescal Canyon Road, approximately 0.2 mile southwest of El Hermano Road (surveyed during same mornings as "Hostettler Road Survey Area"): approximate UTM of survey area: Zone 11, 457250E, 37355000N (WGS84). This point occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle. See Map 2A.
8. Temescal Wash, approximately 0.3 mile northwest of El Hermano Road and northeast of Temescal Canyon Road (surveyed during same mornings as "Lake Street Survey Area"): approximate UTM of survey area: Zone 11, 456950E, 3735980N (WGS84). This

point occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle. See Map 2A.

9. Unnamed Riparian Patch southwest of Temescal Canyon Road, approximately 0.25 mile west of El Hermano Road (surveyed during same mornings as "Lake Street Survey Area"): approximate UTM of survey area: Zone 11, 457700E, 3735120N (WGS84). This point occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle. See Map 2A.
10. Unnamed Riparian Patch in detention basin southwest of Temescal Canyon Road, just south of its intersection with Campbell Ranch Road (surveyed during same mornings as "Lake Street Survey Area"): approximate UTM at center of survey area: Zone 11, 456100E, 3735680N (WGS84). This point occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle. See Map 2A.

All of the survey areas were surveyed for LBV and SWFL. The habitat structure and/or extent at some of the sites are not suitable for nesting WYBCs. Surveys for the WYBC were conducted at Baker Street, Nichols Road, Lake Street, and Hostettler Road, which were the only sites with suitable habitat.

In accordance with the currently accepted survey protocol for the Least Bell's Vireo (USFWS 2001), each site was surveyed at least eight times by AMEC Earth and Environmental (AMEC) biologists. The LBV protocol requires surveys to be conducted at least 10 days apart between 10 April and 31 July. The SWF protocol requires five surveys, and that the first survey be performed from 15 May to 31 May, the next two surveys from 1 June to 24 June, and the final two surveys between 25 June and 17 July (Sogge *et al.* 2010). The SWF surveys were performed concurrently with LBV surveys when possible.

Surveys consisted of slowly moving through the habitat while listening for the songs and calls of the target species. During the SWF surveys, recordings of their vocalizations were broadcast every 20-30 meters, as required by protocol. During WYBC surveys, territorial calls ("*Kowlp*" calls) were broadcast every 100 meters, with the calls being repeated 5 times at one minute intervals. All bird species detected during the surveys were recorded in field notes.

Surveys were performed by Chet McGaugh (federal Endangered Species Permit TE836517-6), Stephen J. Myers (TE804203-9), and John F. Green (TE054011-2). Tables 1A through 1D summarize the surveys, and Maps 2A through 2E show the survey areas.

Table 1A. LBV/SWFL/WYBC Survey Data, Survey Area 1 (“Baker Street Survey Area”).

Date	Observer	Target Species	Time	Temp. (°F)	Wind (mph)	Sky (% cover)
18 May	John F. Green	LBV	0655-1140	59-67	0-2	100-95
25 May	Chet McGaugh	SWFL	0705-1020	52-74	0-3	0
1 June	Chet McGaugh	LBV, SWFL	0630-1045	58-76	0	0
11 June	Stephen J. Myers	LBV, SWFL	0620-1030	60-69	0	100-90
22 June	Chet McGaugh	WYBC	0645-1100	56-83	0	0
2 July	Stephen J. Myers	LBV, SWFL	0700-1050	62-83	0	0
12 July	John F. Green	LBV, SWFL, WYBC	0645-1010	65-85	0-3	<5-0
21 July	Chet McGaugh	LBV	0600-0900	66-74	0	100-0
30 July	Stephen J. Myers	LBV, WYBC	0620-1020	67-84	0	0
11 August	Chet McGaugh	WYBC	0700-1100	59-79	0	0

Table 1B. LBV/SWFL/WYBC Survey Data, Survey Area 2 (“Nichols Road Survey Area”).

Date	Observer	Target Species	Time	Temp. (°F)	Wind (mph)	Sky (% cover)
18 May	John F. Green	LBV	0655-1140	59-67	0-2	100-95
28 May	Stephen J. Myers	LBV, SWFL	0650-1040	55-68	0-2	40
7 June	Chet McGaugh	LBV, SWFL	0650-1110	66-87	0	0
18 June	John F. Green	LBV, SWFL, WYBC	0725-1010	63-81	0-3	0
28 June	Chet McGaugh	LBV, SWFL	0635-1100	65-88	0	0
8 July	Chet McGaugh	LBV, SWFL, WYBC	0620-1055	61-71	0-5	100-0
19 July	Chet McGaugh	LBV	0640-1020	70-94	0	0
29 July	Chet McGaugh	LBV, WYBC	0630-1030	61-80	0	0
10 August	Chet McGaugh	WYBC	0620-1035	53-83	0	0

Table 1C. LBV/SWFL/WYBC Survey Data, Survey Areas 3, 8, 9 & 10 (“Lake Street Survey Area”).

Date	Observer	Target Species	Time	Temp. (°F)	Wind (mph)	Sky (% cover)
24 May	Stephen J. Myers	LBV, SWFL	0630-1015	49-64	0-1	20-10
2 June	John F. Green	LBV, SWFL	0720-0925	60-68	0-3	100-10
12 June	Chet McGaugh	LBV, SWFL	0640-1040	66-72	0-2	100-95
21 June	Stephen J. Myers	LBV, SWFL, WYBC	0625-1050	60-77	0-2	100-0
1 July	John F. Green	LBV, SWFL	065-0930	66-83	0-4	0
12 July	Chet McGaugh	LBV, SWFL, WYBC	0715-1105	70-84	0	0
21 July	John F. Green	LBV	0900-1120	68-84	1-5	0
30 July	Chet McGaugh	LBV, WYBC	0655-1040	64-87	0-4	0
11 August	Stephen J. Myers	WYBC	0640-1045	59-74	0-5	0

Table 1D. LBV/SWFL/WYBC Survey Data, Survey Areas 4, 5, 6, & 7 (“Hostettler Road Survey Area”).

Date	Observer	Target Species	Time	Temp. (°F)	Wind (mph)	Sky (% cover)
11 May	Stephen J. Myers	LBV	0700-1000	54-69	0-4	0-10
28 May	Chet McGaugh	LBV, SWFL	0705-1045	56-70	0	0
2 June	Chet McGaugh	LBV, SWFL	0645-1100	59-71	0	100
11 June	John F. Green	LBV, SWFL	0655-1000	62-68	0-4	99-95
22 June	Stephen J. Myers	LBV, WYBC	0605-1040	54-78	0-2	0
2 July	Chet McGaugh	LBV, SWFL	0645-1030	67-85	0	0
12 July	Stephen J. Myers	LBV, SWFL, WYBC	0645-1035	63-84	0-4	0
22 July	John F. Green	LBV, WYBC	0845-1135	72-84	1-5	0
30 July	John F. Green	LBV, WYBC	0635-1035	63-83	0-4	20-5
12 August	Stephen J. Myers	WYBC	0625-1055	61-82	0	0

3.0 RESULTS

3.1 Habitat Descriptions

3.1.1 Survey Area 1 (Baker Street)

This area contains well developed riparian forest, woodland, and scrub dominated by willows (*Salix* spp.), Mulefat (*Baccharis salicifolia*), and occasional Fremont Cottonwoods (*Populus fremontii*). Open ponds are also present, and are surrounded by freshwater marsh. One pond along Baker Street is completely covered with Water Hyacinth (*Eichhornia crassipes*). Temescal Wash in this area contained surface water during the entire survey season.

3.1.2 Survey Area 2 (Nichols Road)

The habitat in this survey area is a continuation of that of Baker Street. Proceeding north along Temescal Wash, the habitat becomes somewhat more fragmented, and there is a larger proportion of low, scrubby, willow habitat. Stringers of willow scrub and woodland are separated from one another in this area by large stands of freshwater marsh; a few open ponds are also present. The stream in Temescal Wash flowed throughout this reach during the entire survey season.

3.1.3 Survey Area 3 (Lake Street)

Temescal Wash in the area of Lake Street is lined with a mixture of native and nonnative vegetation. Gum trees (*Eucalyptus* spp.) are dominant, with intermittent thickets of willows and scattered Fremont Cottonwoods. Surface water was perennial in portions of this area, but intermittent in others.

3.1.4 Survey Area 4 (Hostettler Road)

This area is along Temescal Wash, and is downstream and nearly contiguous with the Lake Street area. Some *Eucalyptus* occurs, but most of the vegetation is native willows, cottonwoods, and Coast Live Oaks (*Quercus agrifolia*). The creek was flowing throughout the survey period.

3.1.5 Survey Area 5

This small patch of riparian scrub (willows and Mulefat) is adjacent to extensive oak woodlands, which lie to the southwest. No surface water or saturation was visible at this site.

3.1.6 Survey Area 6

At this site, an old strip of former asphalt roadway is lined with scattered willows, cottonwoods, and Mulefat. No surface water is present. Sometime during June of 2010, bulldozing of adjacent uplands removed some of the scrubby willows and Mulefat.

3.1.7 Survey Area 7

A small patch of shrubby willows and Mulefat occurs at this site. The site had some surface water during the entire survey season. A grove of large gum trees is adjacent to the east of the riparian scrub.

3.1.8 Survey Area 8

This survey area consisted of a short reach of Temescal Wash. The vegetation consists of a relatively narrow strip of willow woodland and scrub. The stream flowed throughout the survey season.

3.1.9 Survey Area 9

A patch of shrubby willows and Mulefat occurs at this site. The site had some surface water during the entire survey season.

3.1.10 Survey Area 10

This patch of approximately one acre of scrubby willow, Mulefat, and Salt-Cedar (*Tamarix ramosissima*) is within a detention basin. The Salt-Cedar occurs primarily around the perimeter of the basin, with dense willow scrub occurring in the center of the basin. No surface water or saturation was visible during the surveys.

3.2 Critical Habitat

The project area is not within designated Critical Habitat for either the Least Bell's Vireo or Southwestern Willow Flycatcher.

3.3 Survey Results

One hundred seven (107) bird species were detected during the focused surveys. Among the most frequently detected species were the following birds that are typical of lowland riparian habitats in southern California: Mourning Dove (*Zenaidura macroura*), Black-chinned Hummingbird (*Archilochus alexandri*), Nuttall's Woodpecker (*Picoides nuttallii*), Black Phoebe (*Sayornis nigricans*), Bushtit (*Psaltiriparus minimus*), House Wren (*Troglodytes aedon*), Yellow Warbler (*Dendroica petechia*), Common Yellowthroat (*Geothlypis trichas*), Song Sparrow (*Melospiza melodia*), and Lesser Goldfinch (*Spinus psaltria*).

3.3.1 Southwestern Willow Flycatcher

No Southwestern Willow Flycatchers were detected at any of the survey areas. On 11 August, a single, vocal Willow Flycatcher was in the Lake Street survey area. This date is within the normal period of fall migration of the species in southern California, and the bird was not found on previous surveys. Therefore, AMEC concludes that this bird was a migrant of a more northerly subspecies, and not a Southwestern Willow Flycatcher (subspecies *E.t. extimus*).

3.3.2 Least Bell's Vireo

Least Bell's Vireos were detected more or less continuously from the "Baker Street" survey area to the "Hostettler Road" survey area (see Maps 2C through 2E). The precise number of territories throughout this reach is not possible to ascertain, but is probably between 10 and 15 territories.

3.3.3 Western Yellow-billed Cuckoo

No Western Yellow-billed Cuckoos were detected at any of the survey areas.

4.0 LITERATURE CITED AND REFERENCES

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APPENDIX A

BIRD SPECIES LIST

APPENDIX A BIRD SPECIES LIST

This list reports only bird species or their sign which were observed along the project alignment during 2010 focused bird surveys. Nomenclature and taxonomy for birds observed on site generally follows the American Ornithologists' Union Checklist (1998) and its supplements.

SYMBOLS AND ABBREVIATIONS:

- * Sensitive species (State or Federally Listed as Threatened or Endangered, or a CDFG Species of Special Concern / Watch List Species, or a USFWS Bird of Conservation Concern)

BIRDS

Swans, Geese, and Ducks

Wood Duck
Gadwall
Mallard
Cinnamon Teal
*Redhead

New World Quail

California Quail

Grebes

Pied-billed Grebe

Phalacrocoradidae

*Double-crested Cormorant

Bitterns and Herons

American Bittern
Great Blue Heron
Great Egret
Snowy Egret
Green Heron
Black-crowned Night-Heron

New World Vultures

Turkey Vulture

Hawks, Kites, Eagles

*Northern Harrier
*Cooper's Hawk
Red-shouldered Hawk
Red-tailed Hawk

AVES

Anatidae

Aix sponsa
Anas strepera
Anas platyrhynchos
Anas cyanoptera
Aythya americana

Odontophoridae

Callipepla californica

Podicipedidae

Podilymbus podiceps

Darters

Phalacrocorax auritus

Ardeidae

Botaurus lentiginosus
Ardea herodias
Ardea alba
Egretta thula
Butorides virescens
Nycticorax nycticorax

Cathartidae

Cathartes aura

Accipitridae

Circus cyaneus
Accipiter cooperii
Buteo lineatus
Buteo jamaicensis

Falcons

American Kestrel

Rallidae

Common Moorhen

American Coot

Plovers and Lapwings

Killdeer

Recurvirostridae

Black-necked Stilt

American Avocet

Sandpipers, Phalaropes, and Allies

Spotted Sandpiper

Willet

Greater Yellowlegs

Western Sandpiper

Least Sandpiper

Long-billed Dowitcher

Laridae

*Caspian Tern

Pigeons and Doves

Rock Pigeon (nonnative)

Band-tailed Pigeon

Eurasian Collared-Dove (nonnative)

Mourning Dove

Common Ground-Dove

Cuckoos, Roadrunners, Allies

Greater Roadrunner

Barn Owls

Barn Owl

Typical Owls

Great Horned Owl

Swifts

*Vaux's Swift

White-throated Swift

Hummingbirds

Falconidae

Falco sparverius

Rails, Gallinules, Coots

Gallinula chloropus

Fulica americana

Charadriidae

Charadrius vociferus

Stilts and Avocets

Himantopus mexicanus

Recurvirostra americana

Scolopacidae

Actitis macularius

Tringa semipalmata

Tringa melanoleuca

Calidris mauri

Calidris minutilla

Limnodrumus scolopaceus

Gulls and Terns

Hydroprogne caspia

Columbidae

Columba livia

Patagioenas fasciata

Streptopelia decaocto

Zenaida macroura

Columbina passerina

Cuculidae

Geococcyx californianus

Tytonidae

Tyto alba

Strigidae

Bubo virginianus

Apodidae

Chaetura vauxi

Aeronautes saxatalis

Trochilidae

Black-chinned Hummingbird

Anna's Hummingbird

Costa's Hummingbird

Allen's Hummingbird

Woodpeckers and Allies

Acorn Woodpecker

Nuttall's Woodpecker

Downy Woodpecker

Flycatchers

Western Wood-Pewee

*Willow Flycatcher

Pacific-slope Flycatcher

Black Phoebe

Ash-throated Flycatcher

Cassin's Kingbird

Western Kingbird

Vireos

*Least Bell's Vireo

Warbling Vireo

Jays, Magpies and Crows

Western Scrub-Jay

American Crow

Common Raven

Swallows

Tree Swallow

Northern Rough-winged Swallow

Cliff Swallow

Barn Swallow

Titmice and Chickadees

Oak Titmouse

Mountain Chickadee

Long-tailed Tits and Bushtits

Bushtit

Wrens

Rock Wren

House Wren

Bewick's Wren

Marsh Wren

Archilochus alexandri

Calypte anna

Calypte costae

Selasphorus sasin

Picidae

Melanerpes formicivorus

Picoides nuttallii

Picoides pubescens

Tyrannidae

Contopus sordidulus

Empidonax traillii

Empidonax difficilis

Sayornis nigricans

Myiarchus cinerascens

Tyrannus vociferus

Tyrannus verticalis

Vireonidae

Vireo bellii pusillus

Vireo gilvus

Corvidae

Aphelocoma californica

Corvus brachyrhynchos

Corvus corax

Hirundinidae

Tachycineta bicolor

Stelgidopteryx serripennis

Petrochelidon pyrrhonota

Hirundo rustica

Paridae

Baeolophus inornatus

Poecile gambeli

Aegithalidae

Psaltiriparus minimus

Troglodytidae

Salpinctes obsoletus

Troglodytes aedon

Thryomanes bewickii

Cistothorus palustris

Sylviid Warblers

Wrentit

Mockingbirds, Thrashers, and Allies

Northern Mockingbird

California Thrasher

Starlings and Allies

European Starling (nonnative)

Silky-Flycatchers

Phainopepla

Wood-Warblers

Orange-crowned Warbler

*Yellow Warbler

Black-throated Gray Warbler

Wilson's Warbler

Common Yellowthroat

*Yellow-breasted Chat

Emberizines

Spotted Towhee

California Towhee

*Southern California Rufous-crowned Sparrow

Lark Sparrow

*Bell's Sage Sparrow

Savannah Sparrow

Song Sparrow

Cardinals and Allies

Western Tanager

Black-headed Grosbeak

Blue Grosbeak

Lazuli Bunting

Blackbirds and Allies

Red-winged Blackbird

Western Meadowlark

Brewer's Blackbird

Great-tailed Grackle

Brown-headed Cowbird

Hooded Oriole

Bullock's Oriole

Sylviidae

Chamaea fasciata

Mimidae

Mimus polyglottos

Toxostoma redivivum

Sturnidae

Sturnus vulgaris

Ptilonotidae

Phainopepla nitens

Parulidae

Vermivora celata

Dendroica petechia

Dendroica nigrescens

Wilsonia pusilla

Geothlypis trichas

Icteria virens

Emberizidae

Pipilo maculatus

Pipilo crissalis

Aimophila ruficeps canescens

Chondestes grammacus

Amphispiza belli belli

Passerculus sandwichensis

Melospiza melodia

Cardinalidae

Piranga ludoviciana

Pheucticus melanocephalus

Passerina caerulea

Passerina amoena

Icteridae

Agelaius phoeniceus

Sturnella neglecta

Euphagus cyanocephalus

Quiscalus mexicanus

Molothrus ater

Icterus cucullatus

Icterus bullockii

Finches and Allies

Purple Finch

House Finch

Lesser Goldfinch

*Lawrence's Goldfinch

American Goldfinch

Old World Sparrows

House Sparrow (nonnative)

Fringillidae

Carpodacus purpureus

Carpodacus mexicanus

Spinus psaltria

Spinus lawrencei

Spinus tristis

Passeridae

Passer domesticus

APPENDIX B

SOUTHWESTERN WILLOW FLYCATCHER SURVEY FORMS

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name SCE Ivygton "Baker street" (1) State CA County Riverside
 USGS Quad Name Lake Elsinore Elevation 385 (meters)
 Creek, River, Wetland, or Lake Name Temescal wash
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 468 250 N 3727 250 UTM Datum NAD 83 (See instructions)
 Stop: E 467 100 N 3728 700 UTM Zone 11 S

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
							# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) <u>Chet McGaugh</u>	Date <u>25 May 10</u> Start <u>0655</u> Stop <u>1140</u> Total hrs <u>3.5</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 2 Observer(s) <u>Chet McGaugh</u>	Date <u>1 June</u> Start <u>0630</u> Stop <u>1045</u> Total hrs <u>4.25</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 3 Observer(s) <u>Stephen Myers</u>	Date <u>11 June</u> Start <u>0620</u> Stop <u>1030</u> Total hrs <u>4</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 4 Observer(s) <u>Stephen Myers</u>	Date <u>2 July</u> Start <u>0700</u> Stop <u>1050</u> Total hrs <u>4</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 5 Observer(s) <u>John Green</u>	Date <u>12 July</u> Start <u>0645</u> Stop <u>1010</u> Total hrs <u>3.5</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs <u>19.25</u>		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>					

Reporting Individual Stephen J. Myers Date Report Completed 13 Sept 2010
 US Fish and Wildlife Service Permit # 804203-9 State Wildlife Agency Permit # AMEC MOV
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual Stephen J. Myers Phone # 951-369-8060 x111
 Affiliation AMEC Earth and Environmental E-mail stephen.j.myers@amec.com
 Site Name SCE Ivyglen "Baker Street" Date Report Completed 13 Sept 2010

Did you verify that this site name is consistent with that used in previous years? Yes ☐ No ☐ Not Applicable ☒

If site 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 below.

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

Management Authority for Survey Area : Federal ☐ Municipal/County ☒ State ☐ Tribal ☐ Private ☒

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

Length of area surveyed: ~1220 (meters)

Vegetation Characteristics: Mark the category that best describes the predominant tree/shrub foliar layer at this site (check one):

☐ Native broadleaf plants (entirely or almost entirely, > 90% native, includes high-elevation willow)

☒ Mixed native and exotic plants (mostly native, 50 - 90% native)

☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific name.

Salix laevigata, Salix gooddingii, Populus fremontii

Average height of canopy (Do not include a range): 12 (meters)

Attach copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections.

Attach sketch or aerial photo showing site location, patch shape, survey route, location of any WIFLs or WIFL nests detected.

Attach photos of the interior of the patch, exterior of the patch, and overall site; describe any unique habitat features.

Comments (attach additional sheets if necessary)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name SCE Ivyglen "Nichols Road" (2) State CA County Riverside
 USGS Quad Name Lake Elsinore Elevation 385 (meters)
 Creek, River, Wetland, or Lake Name Temescal wash
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 467600 N 3728400 UTM Datum WGS 84 (See instructions)
 Stop: E 466500 N 3729700 UTM Zone 11S

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Comments (e.g., bird behavior, evidence of pairs or breeding, potential threats (livestock, cowbirds, <i>Diorhabda</i> spp.)). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.				
Observer(s) (Full Name)	Survey time						# Birds	Sex	UTM E	UTM N	
Survey # 1 Observer(s) Stephen Myers	Date 28 May Start 0650 Stop 1040 Total hrs 4	0	0	0	N						
Survey # 2 Observer(s) Chet McGaugh	Date 7 June Start 0650 Stop 1110 Total hrs 4.25	0	0	0	N						
Survey # 3 Observer(s) John Green	Date 18 June Start 0725 Stop 1010 Total hrs 3	0	0	0	N						
Survey # 4 Observer(s) Chet McGaugh	Date 28 June Start 0635 Stop 1100 Total hrs 4.5	0	0	0	N						
Survey # 5 Observer(s) Chet McGaugh	Date 8 July Start 0620 Stop 1055 Total hrs 4.5	0	0	0	N						
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs <u>20.25</u>		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.					
		0	0	0	0						

Reporting Individual Stephen J. Myers Date Report Completed 13 Sept 2010
 US Fish and Wildlife Service Permit # 804203-9 State Wildlife Agency Permit # AMEC MOV
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual Stephen J. Myers Phone # 951-369-8060 x111
 Affiliation AMEC Earth and Environmental E-mail stephen.j.myers@amec.com
 Site Name SCE Ivyglen "Nichols Road" Date Report Completed 13 Sept 2010

Did you verify that this site name is consistent with that used in previous years? Yes ☐ No ☐ Not Applicable ☒

If site 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 below.

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

Management Authority for Survey Area: Federal ☐ Municipal/County ☒ State ☐ Tribal ☐ Private ☒

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

Length of area surveyed: ~1690 (meters)

Vegetation Characteristics: Mark the category that best describes the predominant tree/shrub foliar layer at this site (check one):

☐ Native broadleaf plants (entirely or almost entirely, > 90% native, includes high-elevation willow)

☒ Mixed native and exotic plants (mostly native, 50 - 90% native)

☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific name.

Salix laevigata, Salix gooddingii, Salix exigua, Populus tremontii

Average height of canopy (Do not include a range): 10 (meters)

Attach copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections.

Attach sketch or aerial photo showing site location, patch shape, survey route, location of any WIFLs or WIFL nests detected.

Attach photos of the interior of the patch, exterior of the patch, and overall site; describe any unique habitat features.

Comments (attach additional sheets if necessary)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name SCE Ivy Glen "Lake street" (3) State CA County Riverside
 USGS Quad Name Lake Elsinore, Alberhill Elevation 365 (meters)
 Creek, River, Wetland, or Lake Name Temescal Wash
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 463800 N 3732 000 UTM Datum WGS 84 (See instructions)
 Stop: E 462770 N 3732300 UTM Zone 11 S

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N (If Yes, number of nests)	Comments (e.g., bird behavior, evidence of pairs or breeding; potential threats (livestock, cowbirds, <i>Diorhabda</i> spp.). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
							# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) <u>Stephen Myers</u>	Date <u>24 May 10</u> Start <u>0630</u> Stop <u>1015</u> Total hrs <u>4</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
Survey # 2 Observer(s) <u>John Green</u>	Date <u>2 June</u> Start <u>0720</u> Stop <u>0925</u> Total hrs <u>2</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
Survey # 3 Observer(s) <u>Chet Mc Gough</u>	Date <u>12 June</u> Start <u>0640</u> Stop <u>1040</u> Total hrs <u>4</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
Survey # 4 Observer(s) <u>John Green</u>	Date <u>1 July</u> Start <u>0650</u> Stop <u>0930</u> Total hrs <u>2.5</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
Survey # 5 Observer(s) <u>John Green</u>	Date <u>12 July</u> Start <u>0715</u> Stop <u>1105</u> Total hrs <u>4</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs <u>17.5</u>		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>					

Reporting Individual Stephen J. Myers Date Report Completed 13 Sept 2010
 US Fish and Wildlife Service Permit # 804203-9 State Wildlife Agency Permit # AMEC MDV
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual Stephen J. Myers Phone # 951-369-8060 x111
 Affiliation AMEC Earth and Environmental E-mail stephen.j.myers@amec.com
 Site Name SCE Ivyglen "Lake Street" Date Report Completed 13 Sept 2010

Did you verify that this site name is consistent with that used in previous years? Yes ☐ No ☐ Not Applicable ☒

If site 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 below.

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

Management Authority for Survey Area: Federal ☐ Municipal/County ☒ State ☐ Tribal ☐ Private ☒

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

Length of area surveyed: 1300 (meters)

Vegetation Characteristics: Mark the category that best describes the predominant tree/shrub foliar layer at this site (check one):

☐ Native broadleaf plants (entirely or almost entirely, > 90% native, includes high-elevation willow)

☒ Mixed native and exotic plants (mostly native, 50 - 90% native)

☒ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific name.

Eucalyptus spp., Salix gooddingii

Average height of canopy (Do not include a range): 15 (meters)

Attach copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections.

Attach sketch or aerial photo showing site location, patch shape, survey route, location of any WIFLs or WIFL nests detected.

Attach photos of the interior of the patch, exterior of the patch, and overall site; describe any unique habitat features.

Comments (attach additional sheets if necessary)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name SCE Ivyglen "Hostettler Road" (4) Stat CA County Riverside
 USGS Quad Name Alberhill Elevation 365 (meters)
 Creek, River, Wetland, or Lake Name Temescal Wash
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 462750 N 3732300 UTM Datum WGS 84 (See instructions)
 Stop: E 461300 N 3732800 UTM Zone 11S

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N (If Yes, number of nests)	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diochabida</i> spp.]). If <i>Diochabida</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.				
							# Birds	Sex	UTM E	UTM N	
Survey # 1 Observer(s) <u>Chet McGaugh</u>	Date <u>28 May 10</u> Start <u>0705</u> Stop <u>1045</u> Total hrs <u>3.5</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>						
Survey # 2 Observer(s) <u>Chet McGaugh</u>	Date <u>2 June</u> Start <u>0645</u> Stop <u>1100</u> Total hrs <u>4.25</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>						
Survey # 3 Observer(s) <u>John Green</u>	Date <u>11 June</u> Start <u>0655</u> Stop <u>1000</u> Total hrs <u>3</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>						
Survey # 4 Observer(s) <u>Chet McGaugh</u>	Date <u>2 July</u> Start <u>0645</u> Stop <u>1030</u> Total hrs <u>3.75</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>						
Survey # 5 Observer(s) <u>Stephen Myers</u>	Date <u>12 July</u> Start <u>0645</u> Stop <u>1035</u> Total hrs <u>4</u>										
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs <u>18.5</u>		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.					
		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>						

Reporting Individual Stephen J. Myers Date Report Completed 13 Sept 2010
 US Fish and Wildlife Service Permit # 804203-9 State Wildlife Agency Permit # AMFC MOV
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual Stephen J. Myers Phone # 951-369-8060 x111
 Affiliation AMEC Earth and Environmental E-mail stephen.j.myers@amec.com
 Site Name SCE Ivyglen "Hostettler Road" Date Report Completed 13 Sept 2010

Did you verify that this site name is consistent with that used in previous years? Yes ☐ No ☐ Not Applicable ☒

If site 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 below.

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

Management Authority for Survey Area: Federal ☐ Municipal/County ☒ State ☐ Tribal ☐ Private ☒

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

Length of area surveyed: ~920 (meters)

Vegetation Characteristics: Mark the category that best describes the predominant tree/shrub foliar layer at this site (check one):

☐ Native broadleaf plants (entirely or almost entirely, > 90% native, includes high-elevation willow)

☒ Mixed native and exotic plants (mostly native, 50 - 90% native)

☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific name.

Salix laevigata, Salix gooddingii, Salix lasiolepis

Average height of canopy (Do not include a range): 12 (meters)

Attach copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections.

Attach sketch or aerial photo showing site location, patch shape, survey route, location of any WIFLs or WIFL nests detected.

Attach photos of the interior of the patch, exterior of the patch, and overall site; describe any unique habitat features.

Comments (attach additional sheets if necessary)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name SCE Ivyglen "South of De Palma Road" (5) State CA County Riverside
 USGS Quad Name Alberhill Elevation 365 (meters)
 Creek, River, Wetland, or Lake Name Temescal Wash
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 459200 N 3733600 UTM Datum WGS 84 (See instructions)
 Stop: E N UTM Zone 11S (Small habitat patch)

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior, evidence of pairs or breeding, potential threats (livestock, cowbirds, <i>Diochabda</i> spp.). If <i>Diochabda</i> found, contact USFWS and State WIFL coordinator)	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Survey time						# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) <u>Chet McGaugh</u>	Date <u>28 May 10</u> Start Stop Total hrs <u>5</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 2 Observer(s) <u>Chet McGaugh</u>	Date <u>2 June</u> Start Stop Total hrs <u>5</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 3 Observer(s) <u>John Green</u>	Date <u>11 June</u> Start Stop Total hrs <u>5</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 4 Observer(s) <u>Chet McGaugh</u>	Date <u>2 July</u> Start Stop Total hrs <u>5</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 5 Observer(s) <u>Stephen Myers</u>	Date <u>12 July</u> Start Stop Total hrs <u>5</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs <u>2.5</u>		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>					

Reporting Individual Stephen J. Myers Date Report Completed 13 Sept 2010
 US Fish and Wildlife Service Permit # 804203-9 State Wildlife Agency Permit # AMEC MOV
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

* Part of a larger survey area; see "Hostettler Road (4)"

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual Stephen J. Myers Phone # 951-369-8060 x111
 Affiliation AMEC Earth and Environmental E-mail stephen.j.myers@amec.com
 Site Name SCE Inyogen "South of De Palma Road" Date Report Completed 13 Sept 2010

Did you verify that this site name is consistent with that used in previous years? Yes ☐ No ☐ Not Applicable ☒

If site 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 below.

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

Management Authority for Survey Area: Federal ☐ Municipal/County ☒ State ☐ Tribal ☐ Private ☒

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

Length of area surveyed: ~120 (meters)

Vegetation Characteristics: Mark the category that best describes the predominant tree/shrub foliar layer at this site (check one):

☒ Native broadleaf plants (entirely or almost entirely, > 90% native, includes high-elevation willow)

☐ Mixed native and exotic plants (mostly native, 50 - 90% native)

☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific name.

Salix lasiolepis, Baccharis salicifolia, Quercus agrifolia

Average height of canopy (Do not include a range): 5 (meters)

Attach copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections.

Attach sketch or aerial photo showing site location, patch shape, survey route, location of any WIFLs or WIFL nests detected.

Attach photos of the interior of the patch, exterior of the patch, and overall site; describe any unique habitat features.

Comments (attach additional sheets if necessary)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/arizona/>) for the most up-to-date version.

SCF Tugsten Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name: Northwest of Corona Lakes (6) State: CA County: Riverside
 USGS Quad Name: Lake Mathews Elevation: 340 (meters)
 Creek, River, Wetland, or Lake Name: Temescal Wash
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 457900 N 3735000 UTM Datum: WGS 84 (See instructions)
 Stop: E 457900 N 3735000 UTM Zone: 11S (small habitat patch)

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	2010						GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior, evidence of pairs or breeding, potential threats (livestock, cowbirds, <i>Diochabida</i> spp.). If <i>Diochabida</i> found, contact USFWS and State WIFL coordinator	# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) Chet McGough	Date 28 May Start 0705 Stop 1045 Total hrs 3	0	0	0	N					
Survey # 2 Observer(s) Chet McGough	Date 2 Jun Start 0645 Stop 1100 Total hrs 4	0	0	0	N					
Survey # 3 Observer(s) John Green	Date 11 Jun Start Stop Total hrs *	0	0	0	N					
Survey # 4 Observer(s) Chet McGough	Date 2 Jul Start Stop Total hrs *	0	0	0	N					
Survey # 5 Observer(s) Stephen Myers	Date 12 Jul Start Stop Total hrs *	0	0	0	N					
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				

Reporting Individual: Stephen J. Myers Date Report Completed: 13 Sept 2010
 US Fish and Wildlife Service Permit #: 804203-9 State Wildlife Agency Permit #: AMEC M0V
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

* Part of a larger survey area; see "Hostettler Road" (4)

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual Stephen J. Myers Phone # 951-369-8060 x111
 Affiliation AMEC Earth and Environmental E-mail stephen.j.myers@amec.com
 Site Name _____ Date Report Completed 13 Sept 2010

Did you verify that this site name is consistent with that used in previous years? Yes ____ No ____ Not Applicable X

If site 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 below.

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

Management Authority for Survey Area: Federal ____ Municipal/County X State ____ Tribal ____ Private X

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

Length of area surveyed: ~180 (meters)

Vegetation Characteristics: Mark the category that best describes the predominant tree/shrub foliar layer at this site (check one):

____ Native broadleaf plants (entirely or almost entirely, > 90% native, includes high-elevation willow)

✓ Mixed native and exotic plants (mostly native, 50 - 90% native)

____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific name. Salix sp., Populus sp.

Average height of canopy (Do not include a range): 8 (meters)

Attach copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections.

Attach sketch or aerial photo showing site location, patch shape, survey route, location of any WIFLs or WIFL nests detected.

Attach photos of the interior of the patch, exterior of the patch, and overall site; describe any unique habitat features.

Comments (attach additional sheets if necessary)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

SCE Iygglen Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Southwest of El Herrano Rd (7) State CA County Riverside
USGS Quad Name Lake Mathews Elevation 335 (meters)
Creek, River, Wetland, or Lake Name Temescal Wash
Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 457250 N 3735500 UTM Datum NAD83 (See instructions)
Stop: E N UTM Zone 11S

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior, evidence of pairs or breeding, potential threats (livestock, cowbirds, <i>Diorhabda</i> spp.). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
							# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) <u>chet</u> <u>McGaugh</u>	Date <u>28</u> Start <u>May</u> Stop <u>*</u> Total hrs <u> </u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 2 Observer(s) <u>chet</u> <u>McGaugh</u>	Date <u>2</u> Start <u>Jun</u> Stop <u>*</u> Total hrs <u> </u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>					
Survey # 3 Observer(s) <u>John</u> <u>Green</u>	Date <u>11</u> Start <u>Jun</u> Stop <u>*</u> Total hrs <u> </u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>					
Survey # 4 Observer(s) <u>chet</u> <u>McGaugh</u>	Date <u>2</u> Start <u>Jul</u> Stop <u>*</u> Total hrs <u> </u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>					
Survey # 5 Observer(s) <u>Stephen</u> <u>Myers</u>	Date <u>12</u> Start <u>Jul</u> Stop <u>*</u> Total hrs <u> </u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>					
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs		Total Adult Residents	Total Pairs	Total Territories	Total Nests	<div style="text-align: right;">N/A</div> Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				

Reporting Individual Stephen J. Myers Date Report Completed 13 Sept 2010
US Fish and Wildlife Service Permit # 804203-9 State Wildlife Agency Permit # AMEC MOV
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

* Part of a larger survey area, see "Hostettler Road" (4)

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual Stephen J. Myers Phone # 951-369-8060 x111
 Affiliation AMEC Earth and Environmental E-mail stephen.j.myers@amec.com
 Site Name _____ Date Report Completed 13 Sept 2010

Did you verify that this site name is consistent with that used in previous years? Yes _____ No _____ Not Applicable X

If site 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 below.

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

Management Authority for Survey Area: Federal _____ Municipal/County X State _____ Tribal _____ Private X

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

Length of area surveyed: ~600 (meters)

Vegetation Characteristics: Mark the category that best describes the predominant tree/shrub foliar layer at this site (check one):

_____ Native broadleaf plants (entirely or almost entirely, > 90% native, includes high-elevation willow)

X Mixed native and exotic plants (mostly native, 50 - 90% native)

_____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

_____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific name. Salix sp., Eucalyptus sp.

Average height of canopy (Do not include a range): _____ (meters)

Attach copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections.

Attach sketch or aerial photo showing site location, patch shape, survey route, location of any WIFLs or WIFL nests detected.

Attach photos of the interior of the patch, exterior of the patch, and overall site; describe any unique habitat features.

Comments (attach additional sheets if necessary)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

SCE Ivyglen Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Northwest of El Herrero Rd (8) State CA County Riverside
 USGS Quad Name Lake Mathews Elevation 315 (meters)
 Creek, River, Wetland, or Lake Name Temescal Wash
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 456950 N 3735980 UTM Datum WGS 84 (See instructions)
 Stop: E N UTM Zone 11S (small habitat patch)

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior, evidence of pairs or breeding; potential threats (livestock, cowbirds, <i>Diochabida</i> spp.)). If <i>Diochabida</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.				
							# Birds	Sex	UTM E	UTM N	
Survey # 1 Observer(s) <u>Stephen Myers</u>	Date <u>24</u> Start <u>May</u> Stop <u>*</u> Total hrs <u> </u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>						
Survey # 2 Observer(s) <u>John Green</u>	Date <u>2</u> Start <u>June</u> Stop <u>*</u> Total hrs <u> </u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>						
Survey # 3 Observer(s) <u>Chet McGough</u>	Date <u>12</u> Start <u>Jun</u> Stop <u>*</u> Total hrs <u> </u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>						
Survey # 4 Observer(s) <u>John Green</u>	Date <u>1</u> Start <u>July</u> Stop <u>*</u> Total hrs <u> </u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>						
Survey # 5 Observer(s) <u>John Green</u>	Date <u>12</u> Start <u>July</u> Stop <u>*</u> Total hrs <u> </u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>1</u>						
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs <u>*</u>		Total Adult Residents <u>0</u>	Total Pairs <u>0</u>	Total Territories <u>0</u>	Total Nests <u>0</u>	N/A Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> (If yes, report color combination(s) in the comments section on back of form and report to USFWS.)					

Reporting Individual Stephen J. Myers Date Report Completed 13 Sept 2010
 US Fish and Wildlife Service Permit # 804203-9 State Wildlife Agency Permit # AMEC MOV
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

* Part of a larger survey area; see "Lake Street" (3)

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual Stephen J. Myers Phone # 951-369-8060 x111
 Affiliation AMEC Earth and Environmental E-mail stephen.j.myers@amec.com
 Site Name _____ Date Report Completed 13 Sept 2010

Did you verify that this site name is consistent with that used in previous years? Yes _____ No _____ Not Applicable X
 If site 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 below. _____
 Did you survey the same general area during each visit to this site this year? Yes _____ No _____ If no, summarize below. _____

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

Length of area surveyed: ~80 (meters)

Vegetation Characteristics: Mark the category that best describes the predominant tree/shrub foliar layer at this site (check one):

- _____ Native broadleaf plants (entirely or almost entirely, > 90% native, includes high-elevation willow)
X Mixed native and exotic plants (mostly native, 50 - 90% native)
 _____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
 _____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific name. Salix spp., Tamarix sp.

Average height of canopy (Do not include a range): 8 (meters)

Attach copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections.
 Attach sketch or aerial photo showing site location, patch shape, survey route, location of any WIFLs or WIFL nests detected.
 Attach photos of the interior of the patch, exterior of the patch, and overall site; describe any unique habitat features.

Comments (attach additional sheets if necessary)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

SCE Ivyylen

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name West of El Herrano Rd. (9) Stat CA County Riverside
 USGS Quad Name Lake Mathews Elevation 310 (meters)
 Creek, River, Wetland, or Lake Name Temescal Wash
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 457700 N 3735120 UTM Datum WGS 84 (See instructions)
 Stop: E N UTM Zone 11S (*small habitat patch*)

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N (If Yes, number of nests)	Comments (e.g., bird behavior, evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Dendroica</i> spp.]). If <i>Dendroica</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
							# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) <i>Steven Myers</i>	Date <u>24</u> Start <u>May</u> Stop <u>*</u> Total hrs <u> </u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 2 Observer(s) <i>John Green</i>	Date <u>2</u> Start <u>Jun</u> Stop <u>*</u> Total hrs <u> </u>									
Survey # 3 Observer(s) <i>Chet McGough</i>	Date <u>12</u> Start <u>Jun</u> Stop <u>*</u> Total hrs <u> </u>									
Survey # 4 Observer(s) <i>John Green</i>	Date <u>1</u> Start <u>July</u> Stop <u>*</u> Total hrs <u> </u>									
Survey # 5 Observer(s) <i>John Green</i>	Date <u>12</u> Start <u>July</u> Stop <u>*</u> Total hrs <u> </u>									
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs <u>*</u>		Total Adult Residents <u>0</u>	Total Pairs <u>0</u>	Total Territories <u>0</u>	Total Nests <u>0</u>	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				

Reporting Individual Stephen J. Myers Date Report Completed 13 Sept 2010
 US Fish and Wildlife Service Permit # 804203-9 State Wildlife Agency Permit # AMEC NOV

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

* Part of a larger survey area: see "Lake Street (3)"

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual Stephen J. Myers Phone # 951-369-8060 x111
 Affiliation AMEC Earth and Environmental E-mail stephen.j.myers@amec.com
 Site Name _____ Date Report Completed 13 Sept 2010

Did you verify that this site name is consistent with that used in previous years? Yes _____ No _____ Not Applicable X

If site 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 below.

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

Management Authority for Survey Area : Federal _____ Municipal/County X State _____ Tribal _____ Private X

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

Length of area surveyed: ~180 (meters)

Vegetation Characteristics: Mark the category that best describes the predominant tree/shrub foliar layer at this site (check one):

_____ Native broadleaf plants (entirely or almost entirely, > 90% native, includes high-elevation willow)

X Mixed native and exotic plants (mostly native, 50 - 90% native)

_____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

_____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific name. Salix spp., Populus sp.

Average height of canopy (Do not include a range): 12 (meters)

Attach copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections.

Attach sketch or aerial photo showing site location, patch shape, survey route, location of any WIFLs or WIFL nests detected.

Attach photos of the interior of the patch, exterior of the patch, and overall site; describe any unique habitat features.

Comments (attach additional sheets if necessary)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

SCE Ivyglen

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Near Campbell Ranch Road (10) State CA County Riverside
 USGS Quad Name Lake Mathews Elevation 330 (meters)
 Creek, River, Wetland, or Lake Name Temescal Wash
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes X No

Survey Coordinates: Start: E 456190 N 3735680 UTM Datum WGS 84 (See instructions)
 Stop: E N UTM Zone 11S

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior, evidence of pairs or breeding, potential threats (livestock, cowbirds, <i>Litorhabda</i> spp.)). If <i>Litorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.
Survey # 1 Observer(s) Steven Myers	Date <u>24</u> Start <u>May</u> Stop <u>*</u> Total hrs <u> </u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds Sex UTM E UTM N
Survey # 2 Observer(s) John Green	Date <u>2</u> Start <u>Jun</u> Stop <u>*</u> Total hrs <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		# Birds Sex UTM E UTM N
Survey # 3 Observer(s) Chet McGaugh	Date <u>12</u> Start <u>Jun</u> Stop <u>*</u> Total hrs <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		# Birds Sex UTM E UTM N
Survey # 4 Observer(s) John Green	Date <u>1</u> Start <u>July</u> Stop <u>*</u> Total hrs <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		# Birds Sex UTM E UTM N
Survey # 5 Observer(s) John Green	Date <u>12</u> Start <u>July</u> Stop <u>*</u> Total hrs <u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>		# Birds Sex UTM E UTM N
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs <u>*</u>	Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <u> </u> No <u> </u> If yes, report color combination(s) in the comments section on back of form and report to USFWS.		
	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	N/A		

Reporting Individual Stephen J. Myers Date Report Completed 13 Sept 2010
 US Fish and Wildlife Service Permit # 804203-9 State Wildlife Agency Permit # AMEC NOV
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

* Part of a larger survey area: see "Lake Street(3)"

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual Stephen J. Myers Phone # 951-369-8060 x111
 Affiliation AMEC Earth and Environmental E-mail stephen.j.myers@amec.com
 Site Name _____ Date Report Completed 13 Sept 2010

Did you verify that this site name is consistent with that used in previous years? Yes _____ No _____ Not Applicable X
 If site 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 below.
 Did you survey the same general area during each visit to this site this year? Yes _____ No _____ If no, summarize below.

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

Length of area surveyed: ~80 (meters)

Vegetation Characteristics: Mark the category that best describes the predominant tree/shrub foliar layer at this site (check one):

- _____ Native broadleaf plants (entirely or almost entirely, > 90% native, includes high-elevation willow)
X Mixed native and exotic plants (mostly native, 50 - 90% native)
 _____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
 _____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific name. Salix sp., Tamarix aphylla

Average height of canopy (Do not include a range): 5 (meters)

Attach copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections.
 Attach sketch or aerial photo showing site location, patch shape, survey route, location of any WIFLs or WIFL nests detected.
 Attach photos of the interior of the patch, exterior of the patch, and overall site; describe any unique habitat features.

Comments (attach additional sheets if necessary)

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

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

Attach additional sheets if necessary

APPENDIX C

WESTERN YELLOW-BILLED CUCKOO SURVEY FORMS

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Baker St.</u>	Transect #:	Survey Period:	Visit #:	Date:	0	6	2	2	2	0	1	0
Drainage:	Habitat:	GPS #:	Transect Start Time:	Transect Stop Time:		0	6	4	5				
UTM Start E:		Start GPS acc. (m):	Zone:			1	1	0	4				
UTM Start N:													
UTM Stop E:		Stop GPS acc. (m):	NAD:										
UTM Stop N:													

Observer: C. Mc Gough

Site Owner:	State:	County:	Data Entry:						
			Data verification:						

Wind: 0 Cloud Cover: 0 Precip: 0 Noise: 0 Temp (F) start/stop: 56/63

Broadcast -Point Start Time	GPS acc.	UTM										YBCU Detect. #	Time of Detect.	Det. Type A.V.B.	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0645	E467459	N	3	7	2	8	0	4	6											
0653	E467403	N	3	7	2	8	1	0	7											
0659	E467435	N	3	7	2	8	2	5	5											
0709	E467476	N	3	7	2	8	3	0	7											
0718	E467429	N	3	7	2	8	3	6	2											
0727	E467364	N	3	7	2	8	4	0	2											
0736	E467307	N	3	7	2	8	4	6	8											
0745	E467255	N	3	7	2	8	5	4	5											
0755	E467222	N	3	7	2	8	6	2	5											
0805	E467550	N	3	7	2	8	6	5	2											
0814	E467597	N	3	7	2	8	1	2	0											
0826	E467558	N	3	7	2	8	1	7	0											
0835	E467537	N	3	7	2	8	2	2	7											
0844	E467559		3	7	2	8	3	0	4											
0853	E467555		3	7	2	8	3	8	2											

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <i>Baker St.</i>	Transect #:	Survey Period:	Visit #:	Date:
Drainage:	Habitat:	GPS #:	Transect Start Time:		
UTM Start E:		Start GPS acc. (m):	Transect Stop Time:		
UTM Start N:			Zone:		
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N:			Observer:		

Site Owner:	State:	County:	Data Entry:
Wind:	Cloud Cover:	Precip:	Data verification:
		Noise:	
		Temp (F°) start/stop:	

Broadcast -Point Start Time	GPS acc.	UTM	YBCU Detect. #	Time of Detect.	Det. Type A,V,B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0904	E467460	N3728437									
0915	E467432	N3728508									
0924	E467382	N3728553									
0940	E467550	N3727894									
0949	E467539	N3727811									
0958	E467624	N3727740									
1009	E467729	N3727731									
1020	E467833	N3727674									
1029	E467822	N3727768									
1037	E467735	N3727832									
1046	E467671	N3727908									
1055	E467591	N3727960									
	E	N									
	E										
	E										
	E										

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Baker St.</u>	Transect #:	Survey Period: <u>2</u>	Visit #:	Date:	<u>0</u>	<u>7</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>0</u>	<u>1</u>	<u>0</u>
Drainage:	Habitat:	GPS #:	Transect Start Time:	Transect Stop Time:		<u>0</u>	<u>6</u>	<u>4</u>	<u>5</u>				
UTM Start E:		Start GPS acc. (m):			Zone:	<u>1</u>	<u>0</u>	<u>4</u>	<u>5</u>				
UTM Start N:		Stop GPS acc. (m):			NAD:								
UTM Stop E:													
UTM Stop N:					Observer: <u>J. Green</u>								

Site Owner:	State:	County:	Data Entry:						
			Data verification:						

Wind: <u>0-3</u>	Cloud Cover: <u>0</u>	Precip:	Noise:	Temp (F°) start/stop: <u>65/85</u>
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Broadcast -Point Start Time	GPS acc.	Coordinates listed on survey Period 2 form.										YBCU Detect. #	Time of Detect.	Det. Type A,V,B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
		UTM																		
0645	E											N								
0653	E											N								
0701	E											N								
0709	E											N								
0717	E											N								
0725	E											N								
0735	E											N								
0743	E											N								
0751	E											N								
0800	E											N								
0808	E											N								
0816	E											N								
0825	E											N								
0834	E																			
0842	E																			

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Baker St.</u>	Transsect #:	Survey Period:	Visit #:	Date:
Drainage:	Habitat:	GPS #:	Transsect Start Time:		
UTM Start E:		Start GPS acc. (m):	Transsect Stop Time:		
UTM Start N:			Zone:		
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N:			Observer:		

Site Owner:	State:	County:	Data Entry:		
			Data verification:		

Wind:	Cloud Cover:	Precip:	Noise:	Temp (F) start/stop:
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Broadcast -Point Start Time	GPS acc.	UTM	YBCU Detect. #	Time of Detect.	Det. Type A/B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0850	E	N									
0859	E	N									
0907	E	N									
0915	E	N									
0924	E	N									
0932	E	N									
0939	E	N									
1007	E	N									
1015	E	N									
1023	E	N									
1031	E	N									
1039	E	N									
	E										
	E										
	E										
	E										

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Baker St.</u>	Transsect #:	Survey Period: <u>3</u>	Visit #: <u>1</u>	Date: <u>07302010</u>
Drainage:	Habitat:	GPS #:	Transsect Start Time:	<u>0620</u>	
UTM Start E:		Start GPS acc. (m):	Transsect Stop Time:	<u>1028</u>	
UTM Start N:			Zone:		
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N:			Observer: <u>S. Myers</u>		

Site Owner:	State:	County:	Data Entry:		
			Data verification:		

Wind: <u>0</u>	Cloud Cover: <u>0</u>	Precip:	Noise:	Temp (F°) start/stop: <u>67/84</u>
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Broadcast -Point Start Time	GPS acc.	Coordinates listed on survey Period 1 forms.										YBCU Detect. #	Time of Detect.	Det. Type A.V.B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
		UTM																		
0620	E	N																		
0628	E	N																		
0637	E	N																		
0645	E	N																		
0654	E	N																		
0703	E	N																		
0712	E	N																		
0721	E	N																		
0729	E	N																		
0738	E	N																		
0748	E	N																		
0757	E	N																		
0807	E	N																		
0816	E																			
0826	E																			

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Baker Sta</u>	Transect #:	Survey Period: <u>3</u>	Visit #: <u>1</u>	Date:
Drainage:	Habitat:	GPS #:	Transect Start Time:		
UTM Start E:		Start GPS acc. (m):	Transect Stop Time:		
UTM Start N:			Zone:		
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N:			Observer:		

Site Owner:	State:	County:	Data Entry:				
			Data verification:				
Wind:	Cloud Cover:	Precip:	Noise:	Temp (F) start/stop:			

Broadcast -Point Start Time	GPS acc.	UTM										YBCU Detect. #	Time of Detect.	Det. Type A.V.B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0835	E																			
0845	E																			
0854	E																			
0903	E																			
0913	E																			
0922	E																			
0931	E																			
0942	E																			
0952	E																			
1001	E																			
1011	E																			
1020	E																			
	E																			
	E																			
	E																			
	E																			

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Baker St.</u>	Transect #:	Survey Period: <u>4</u>	Visit #:	Date: <u>08/11/2010</u>
Drainage:	Habitat:	GPS #:	Transcript Start Time:	<u>0700</u>	
UTM Start E:		Start GPS acc. (m):	Transcript Stop Time:	<u>1102</u>	
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N:			Observer: <u>C. Mc Gough</u>		

Site Owner:	State:	County:	Data Entry:				
			Data verification:				

Wind:	Cloud Cover:	Precip:	Noise:	Temp (F) start/stop:
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Broadcast -Point Start Time	GPS acc.	UTM	YBCU Detect. #	Time of Detect.	Det. Type A/V/B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0700	E	N									
0708	E	N									
0717	E	N									
0726	E	N									
0735	E	N									
0745	E	N									
0754	E	N									
0802	E	N									
0811	E	N									
0820	E	N									
0828	E	N									
0837	E	N									
0847	E	N									
0856	E										
0905	E										

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Baker St.</u>	Transect #:	Survey Period: <u>4</u>	Visit #: <u>1</u>	Date:
Drainage:	Habitat:	GPS #:	Transsect Start Time:		
UTM Start E:		Start GPS acc. (m):	Transsect Stop Time:		
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N:			Observer: <u>C. Mc Gough</u>		

Site Owner:	State:	County:	Data Entry:				
			Data verification:				
Wind:	Cloud Cover:	Precip:	Noise:	Temp (F) start/stop:			

Broadcast -Point Start Time	GPS acc.	UTM										YBCU Detect. #	Time of Detect.	Det. Type A.V.B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0914	E																			
0923	E																			
0933	E																			
0941	E																			
0952	E																			
1001	E																			
1009	E																			
1017	E																			
1026	E																			
1035	E																			
1044	E																			
1055	E																			
	E																			
	E																			
	E																			
	E																			

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Nichols Rd.</u>	Transect #:	Survey Period:	Visit #:	Date:	0	6	1	8	2	0	1	0
Drainage:	Habitat:	GPS #:	Transcript Start Time:	Transcript Stop Time:	0	7	2	5					
UTM Start E:		Start GPS acc. (m):	Zone:		0	9	5	3					
UTM Start N:		Stop GPS acc. (m):	NAD:										
UTM Stop E:													
UTM Stop N:													

Observer: J. Green

Site Owner:	State:	County:	Data Entry:						
Wind: <u>0-3</u>	Cloud Cover: <u>0</u>	Precip:	Noise:	Temp (F) start/stop: <u>63/88</u>	Data verification:				

Broadcast -Point Start Time	GPS acc.	UTM	YBCU Detect. #	Time of Detect.	Det. Type A.V.B.	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0725		E466514N3729681									
0734		E466574N3729620									
0744		E466626N3729548									
0753		E466685N3729471									
0804		E466743N3729381									
0813		E466796N3729314									
0822		E466851N3729238									
0830		E466905N3729152									
0839		E466961N3729054									
0848		E466985N3729203									
0857		E467047N3729127									
0906		E467138N3729073									
0916		E467230N3729029									
0925		E467288N3728967									
0934		E467359N3728906									
0944		467427	2728829								

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Nichols Rd</u>	Transect #:	Survey Period: <u>2</u>	Visit #: <u>1</u>	Date: <u>07082010</u>
Drainage:	Habitat:	GPS #:	Transect Start Time:	<u>0620</u>	
UTM Start E:		Start GPS acc. (m):	Transect Stop Time:	<u>0849</u>	
UTM Start N:		Stop GPS acc. (m):	Zone:		
UTM Stop E:		NAD:			
UTM Stop N:		Observer: <u>C. Mc Gough</u>			

Site Owner:	State:	County:	Data Entry:						
			Data verification:						
Wind: <u>0-5</u>	Cloud Cover: <u>100-0</u>	Precip: <u>0</u>	Noise:	Temp (F) start/stop: <u>61/71</u>					

Broadcast -Point Start Time	GPS acc.	Coordinates listed on Survey Period 1 form.										YBCU Detect. #	Time of Detect.	Det. Type A,V,B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0620	E																			
0630	E																			
0638	E																			
0647	E																			
0700	E																			
0709	E																			
0718	E																			
0727	E																			
0736	E																			
0746	E																			
0753	E																			
0805	E																			
0815	E																			
0824	E																			
0833	E																			
0840																				

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Nichols Rd</u>	Transect #:	Survey Period: <u>3</u>	Visit #:	Date: <u>07292016</u>
Drainage:	Habitat:	GPS #:	Transsect Start Time:	<u>0630</u>	
UTM Start E:		Start GPS acc. (m):	Transsect Stop Time:	<u>0906</u>	
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N:		Observer: <u>C. McGagh</u>			

Site Owner:	State:	County:	Data Entry:				
Wind: <u>0</u>	Cloud Cover: <u>0</u>	Precip:	Data verification:				
		Noise:	Temp (F°) start/stop: <u>61/80</u>				

Broadcast -Point Start Time	GPS acc.	Coordinates listed on Survey Period 1 form.										YBCU Detect. #	Time of Detect.	Det. Type A/V/B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0630	E																			
0639	E																			
0649	E																			
0658	E																			
0709	E																			
0719	E																			
0728	E																			
0737	E																			
0749	E																			
0758	E																			
0809	E																			
0818	E																			
0827	E																			
0837	E																			
0845	E																			
0856																				

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Nichols Rd.</u>	Transect #:	Survey Period: <u>4</u>	Visit #: <u>1</u>	Date: <u>08102010</u>
Drainage:	Habitat:	GPS #:	Transit Start Time:	0620	
UTM Start E:		Start GPS acc. (m):	Transit Stop Time:	0855	
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N:		Observer: <u>C. McLaugh</u>			

Site Owner:	State:	County:	Data Entry:		
			Data verification:		

Wind: <u>0</u>	Cloud Cover: <u>0</u>	Precip: <u>0</u>	Noise:	Temp (F) start/stop: <u>59/71</u>
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Broadcast -Point Start Time	GPS acc.	UTM	YBCU Detect. #	Time of Detect.	Det. Type A.V.B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0620	E	N									
0631	E	N									
0640	E	N									
0650	E	N									
0701	E	N									
0710	E	N									
0718	E	N									
0727	E	N									
0736	E	N									
0745	E	N									
0756	E	N									
0806	E	N									
0815	E	N									
0824	E										
0833	E										
0844	E										

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Lake St.</u>	Transect #:	Survey Period:	Visit #:	Date:	06	21	2010
Drainage:	Habitat:	GPS #:	Transcript Start Time:	Transcript Stop Time:	06	22	05	
UTM Start E:		Start GPS acc. (m):	Zone:		09	00		
UTM Start N:		Stop GPS acc. (m):	NAD:					
UTM Stop E:								
UTM Stop N:				Observer: <u>S. Myers</u>				

Site Owner:	State:	County:	Data Entry:				
			Data verification:				

Wind: <u>0-2</u>	Cloud Cover: <u>100-0</u>	Precip:	Noise:	Temp (F) start/stop: <u>60/77</u>
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Broadcast -Point Start Time	GPS acc.	UTM										YBCU Detect. #	Time of Detect.	Det. Type A/V/B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0625		E463468	N373216	6																
0634		E463382	N373217	8																
0644		E463322	N373217	5																
0653		E463228	N373218	8																
0703		E463156	N373222	4																
0712		E463679	N373223	1																
0721		E463607	N373224	6																
0730		E462946	N373228	2																
0739		E462877	N373228	9																
0750		E462808	N373231	4																
0759		E462934	N373220	1																
0814		E463610	N373216	9																
0827		E463697	N373212	2																
0840		E463175	N373208	6																
0852		E463281	N373208	2																

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Lake St.</u>	Transect #:	Survey Period: <u>2</u>	Visit #: <u>1</u>	Date: <u>07122010</u>
Drainage:	Habitat:	GPS #:	Transect Start Time:	<u>0715</u>	
UTM Start E:		Start GPS acc. (m):	Transect Stop Time:		
UTM Start N:			Zone:		
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N:			Observer: <u>C. McGough</u>		

Site Owner:	State:	County:	Data Entry:						
			Data verification:						
Wind: <u>0</u>	Cloud Cover: <u>0</u>	Precip:	Noise:	Temp (F°) start/stop: <u>70/84</u>					

Broadcast -Point Start Time	GPS acc.	UTM	VBCU Detect. #	Time of Detect.	Det. Type A,V,B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0715	E	N									
0725	E	N									
0737	E	N									
0746	E	N									
0759	E	N									
0812	E	N									
0825	E	N									
0837	E	N									
0849	E	N									
0910	E	N									
0922	E	N									
0933	E	N									
0945	E	N									
1000	E										
1014	E										

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Lake St.</u>	Transect #:	Survey Period: <u>3</u>	Visit #: <u>1</u>	Date: <u>6 7 3 0 2 0 1 0</u>
Drainage:	Habitat:	GPS #:	Transect Start Time:	0 6 5 5	
UTM Start E:		Start GPS acc. (m):	Transect Stop Time:		
UTM Start N:			Zone:		
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N:			Observer: <u>C. Mc Gaugh</u>		

Site Owner:	State:	County:	Data Entry:				
			Data verification:				

Wind: <u>6-4</u>	Cloud Cover: <u>0</u>	Precip: <u>0</u>	Noise: <u>0</u>	Temp (F°) start/stop: <u>64/67</u>
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Broadcast -Point Start Time	GPS acc.	Coordinates listed on Survey Period 1 form.										YBCU Detect. #	Time of Detect.	Det. Type A,V,B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0655	E																			
0706	E																			
0718	E																			
0727	E																			
0737	E																			
0746	E																			
0800	E																			
0810	E																			
0819	E																			
0830	E																			
0841	E																			
0851	E																			
0859	E																			
0911	E																			
0930	E																			

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Lake St.</u>	Transect #:	Survey Period: <u>4</u>	Visit #: <u>1</u>	Date: <u>08/11/2010</u>
Drainage:	Habitat:	GPS #:	Transect Start Time:	<u>0640</u>	
UTM Start E:		Start GPS acc. (m):	Transect Stop Time:	<u>0919</u>	
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N:		Observer: <u>S. Myers</u>			

Site Owner:	State:	County:	Data Entry:				
			Data verification:				

Wind: <u>0-5</u>	Cloud Cover: <u>0</u>	Precip:	Noise:	Temp (F) start/stop: <u>59/74</u>
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Broadcast -Point Start Time	GPS acc.	Coordinates listed on Survey Period 1 form.										YBCU Detect. #	Time of Detect.	Det. Type A,V,B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
		UTM																		
0640	E	E	N	N	N	N	N	N	N	N	N									
0652	E	E	N	N	N	N	N	N	N	N	N									
0703	E	E	N	N	N	N	N	N	N	N	N									
0714	E	E	N	N	N	N	N	N	N	N	N									
0724	E	E	N	N	N	N	N	N	N	N	N									
0733	E	E	N	N	N	N	N	N	N	N	N									
0742	E	E	N	N	N	N	N	N	N	N	N									
0755	E	E	N	N	N	N	N	N	N	N	N									
0807	E	E	N	N	N	N	N	N	N	N	N									
0818	E	E	N	N	N	N	N	N	N	N	N									
0827	E	E	N	N	N	N	N	N	N	N	N									
0837	E	E	N	N	N	N	N	N	N	N	N									
0846	E	E	N	N	N	N	N	N	N	N	N									
0859	E	E	N	N	N	N	N	N	N	N	N									
0909	E	E	N	N	N	N	N	N	N	N	N									

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Hostetter Rd</u>	Transect #:	Survey Period:	Visit #:	Date:
Drainage:	Habitat:	GPS #:	Start GPS acc. (m):	Transect Start Time:	07122010
UTM Start E:			Stop GPS acc. (m):	Transect Stop Time:	0645
UTM Start N:			Zone:		0900
UTM Stop E:			Stop GPS acc. (m):	NAD:	
UTM Stop N:			Observer: <u>S. Myers</u>		

Site Owner:	State:	County:	Data Entry:
			Data verification:

Wind: 0-4 Cloud Cover: 0 Precip: Noise: Temp (F) start/stop: 63/84

Broadcast -Point Start Time	GPS acc.	UTM	YBCU Detect. #	Time of Detect.	Det. Type A,V,B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0645	E461689	N3732332									
0654	E461719	N3732414									
0704	E461698	N3732584									
0713	E461825	N3732558									
0723	E461863	N3732450									
0732	E461963	N3732433									
0740	E462085	N3732428									
0750	E462191	N3732391									
0759	E462292	N3732370									
0809	E462416	N3732380									
0819	E462674	N3732342									
0828	E461469	N3732627									
0837	E461416	N3732740									
0846	E461354	N3732840									
	E										

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Hostetter Rd</u>	Transect #:	Survey Period: <u>Z</u>	Visit #:	<u>1</u>	Date:	<u>0</u>	<u>7</u>	<u>2</u>	<u>2</u>	<u>2</u>	<u>0</u>	<u>1</u>	<u>0</u>
Drainage:	Habitat:	GPS #:	Transect Start Time:											
UTM Start E:		Start GPS acc. (m):	Transect Stop Time:											
UTM Start N:		Stop GPS acc. (m):	Zone:											
UTM Stop E:		NAD:												
UTM Stop N:		Observer: <u>J. Green</u>												

Site Owner:	State:	County:	Data Entry:						
			Data verification:						

Wind: 1-5 Cloud Cover: 0 Precip: Noise: Temp (F) start/stop: 72/84

Broadcast -Point Start Time	GPS acc.	Coordinates listed on Survey Period 1 form										UTM	VBCU Detect. #	Time of Detect.	Det. Type A,V,B	Compass Bearing °	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0845	E											N									
0855	E											N									
0904	E											N									
0916	E											N									
0927	E											N									
0938	E											N									
0947	E											N									
0958	E											N									
1007	E											N									
1018	E											N									
1027	E											N									
1037	E											N									
1046	E											N									
1058	E																				
	E																				

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <i>Hostettler Rd</i>	Transect #:	Survey Period: <i>3</i>	Visit #:	Date: <i>07302010</i>
Drainage:	Habitat:	GPS #:	Transect Start Time:	<i>0635</i>	
UTM Start E:		Start GPS acc. (m):	Transect Stop Time:		
UTM Start N:			Zone:		
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N:			Observer: <i>J. Green</i>		

Site Owner:	State:	County:	Data Entry:				
			Data verification:				

Wind: *0-4* Cloud Cover: *20-5* Precip: Noise: Temp (F°) start/stop: *63/83*

Broadcast -Point Start Time	GPS acc.	Coordinates listed on Survey Period 1 form.										UTM	YBCU Detect. #	Time of Detect.	Det. Type A,V,B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0635	E											N									
0645	E											N									
0659	E											N									
0710	E											N									
0721	E											N									
0730	E											N									
0739	E											N									
0800	E											N									
0811	E											N									
0820	E											N									
0830	E											N									
0838	E											N									
0847	E											N									
0858	E																				

Other Species:

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Hostettler Rd</u>	Transect #:	Survey Period: <u>4</u>	Visit #:	Date: <u>08122010</u>
Drainage:	Habitat:	GPS #:	Transsect Start Time:	0625	
UTM Start E:		Start GPS acc. (m):	Transsect Stop Time:	0910	
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N:		Observer: <u>S. Myers</u>			

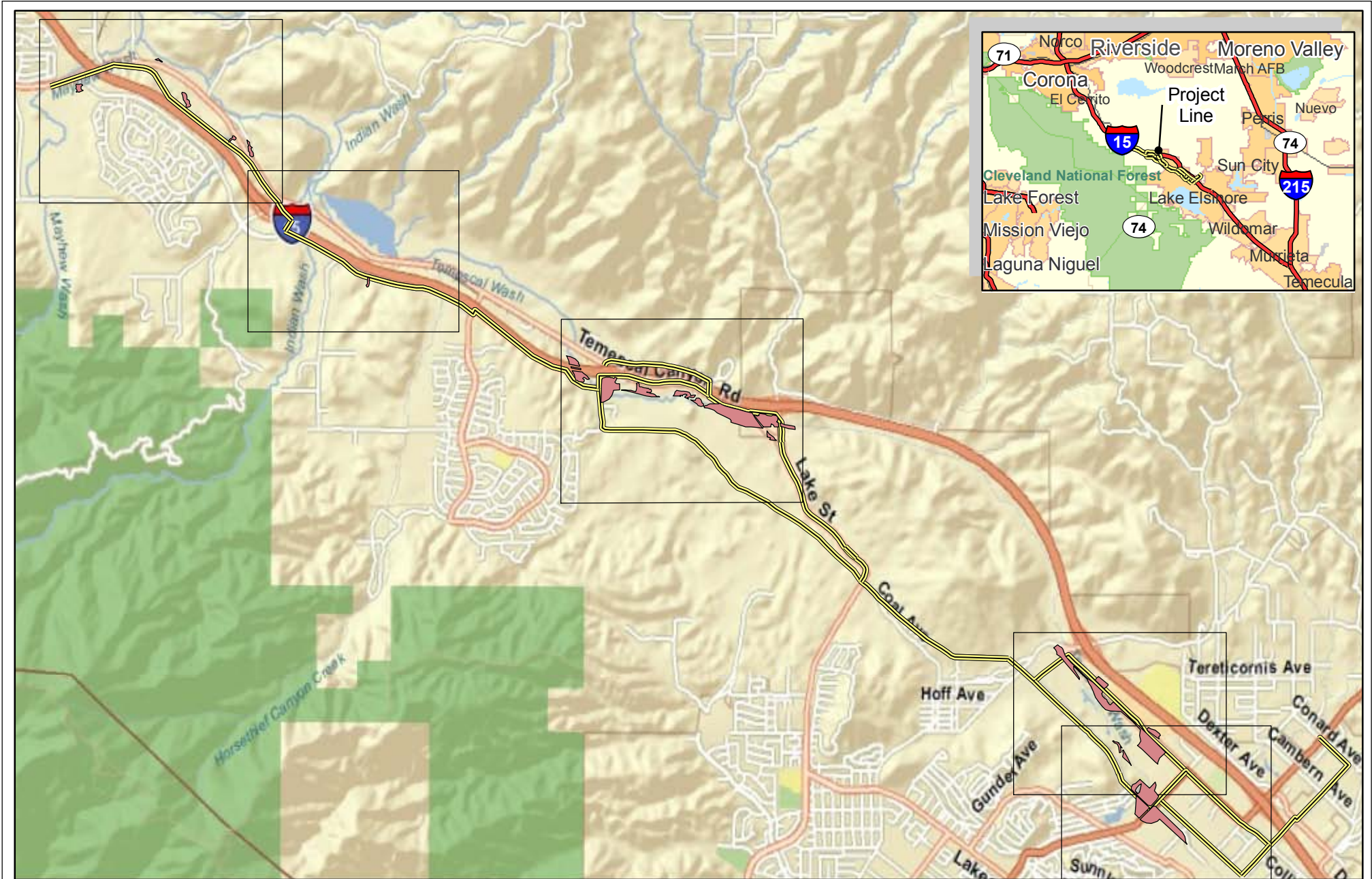
Site Owner:	State:	County:	Data Entry:				
			Data verification:				
Wind: <u>0</u>	Cloud Cover: <u>0</u>	Precip:	Noise:	Temp (F) start/stop: <u>61/82</u>			

Broadcast -Point Start Time	GPS acc.	Coordinates listed on Survey Period 1 form.	UTM	YBCU Detect. #	Time of Detect.	Det. Type A/V/B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0625	E		N									
0636	E		N									
0648	E		N									
0700	E		N									
0713	E		N									
0723	E		N									
0734	E		N									
0746	E		N									
0759	E		N									
0812	E		N									
0823	E		N									
0835	E		N									
0846	E		N									
0859	E		N									
	E											

Other Species:

APPENDIX D

MAPS OF SURVEY AREAS AND SURVEY RESULTS

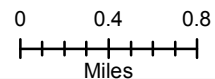


- Transmission Line Route
- Survey Areas

Map Data-
 Projection: NAD 83 Zone 11
 PathS:\active projects\SCE Projects\Ivyglen.Fogerty Substation
 6151000801(San Diego)\graphics\2010\maps
 Sources: SCE Ivyglen_routes_updated_8_20_09
 Date: 9/8/10

Valley-Ivyglen Subtransmission Line Project

Vicinity & Location



Map

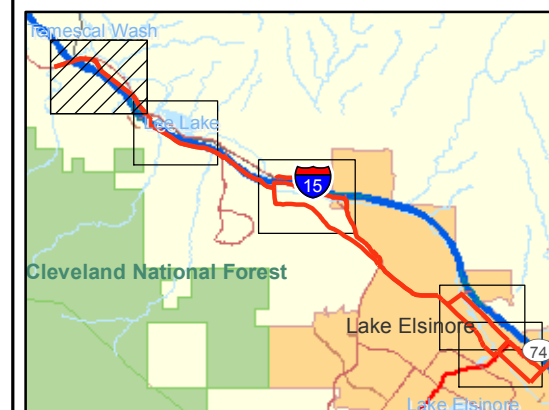
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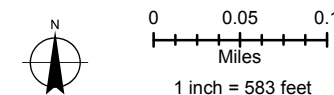
Legend

- Transmission Route
- Survey Area
- 2010 LBV Sightings



Map Notes

Projection: NAD 83 zone 11
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Substation 6151000801(San Diego)\graphics
12010\maps
Sources-SCE ivyglenn routes updated 8.20.09
Aerial ESRI-online



**Least Bell's Vireo,
Southwestern Willow Flycatcher,
& Western Yellow-billed Cuckoo
Surveys & Results
Valley - Ivyglen Transmission Line Project**

Map 2A





Legend

Transmission Route

Survey Area

2010 LBV Sightings

Temescal Wash

Cleveland National Forest

Lake Elsinore

74

Map Notes

Projection: NAD 83 zone 11

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Sources-SCE ivyglenn routes updated 8.20.09

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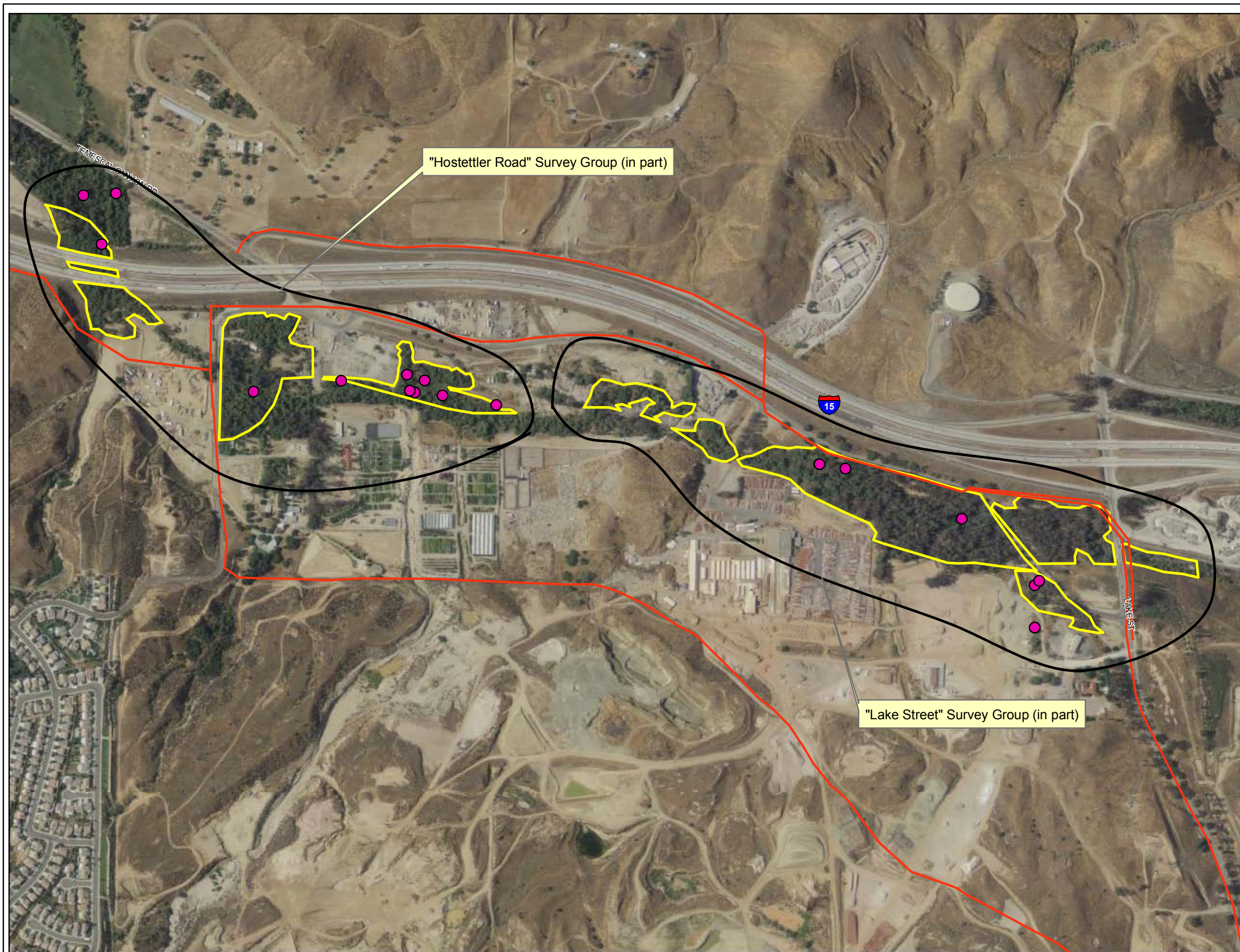
Miles

1 inch = 583 feet

Least Bell's Vireo,
Southwestern Willow Flycatcher,
& Western Yellow-billed Cuckoo
Surveys & Results
Valley - Ivyglen Transmission Line Project

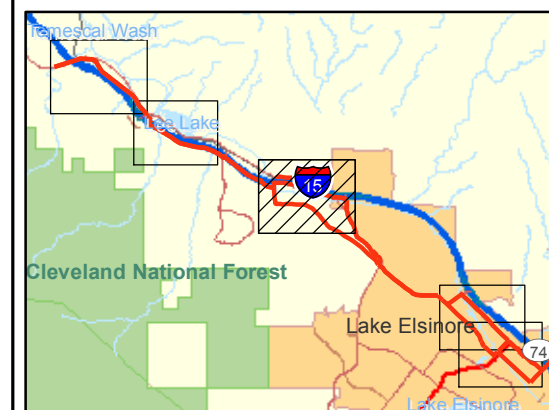
Map 2B

amec



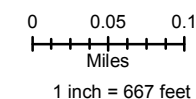
Legend

- Transmission Route
- Survey Area
- 2010 LBV Sightings



Map Notes

Projection: NAD 83 zone 11
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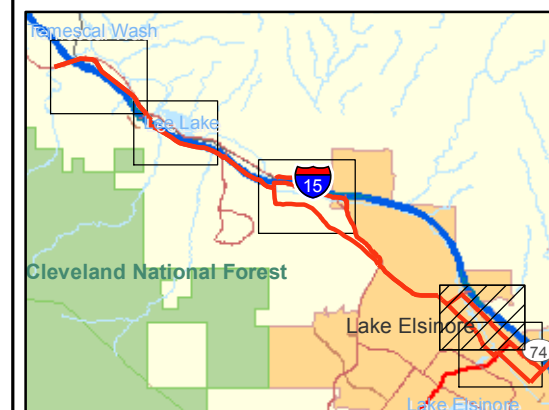


**Least Bell's Vireo,
Southwestern Willow Flycatcher,
& Western Yellow-billed Cuckoo
Surveys & Results
Valley - Ivyglen Transmission Line Project**



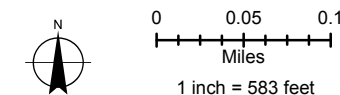
Legend

- Transmission Route
- Survey Area
- 2010 LBV Sightings



Map Notes

Projection: NAD 83 zone 11
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Substation 6151000801(San Diego)\graphics
12010\maps
Sources-SCE ivyglenn routes updated 8.20.09
Aerial ESRI-online



**Least Bell's Vireo,
Southwestern Willow Flycatcher,
& Western Yellow-billed Cuckoo
Surveys & Results
Valley - Ivyglen Transmission Line Project**

Map 2D





Legend

Transmission Route

Survey Area

2010 LBV Sightings

Map Notes

Projection: NAD 83 zone 11
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Substation 6151000801(San Diego)\graphics
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Sources-SCE ivyglenn routes updated 8.20.09
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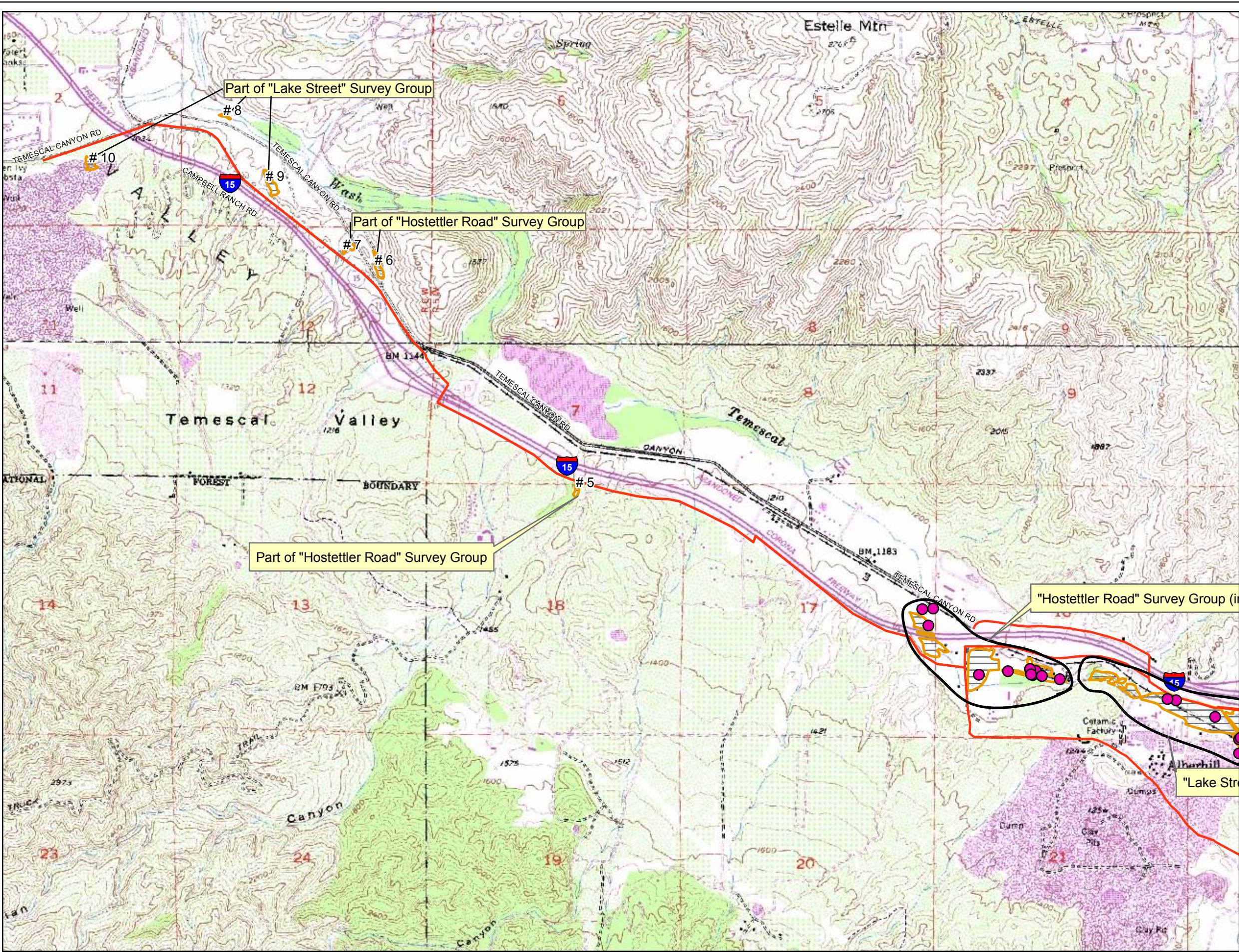
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Miles

1 inch = 583 feet

**Least Bell's Vireo,
Southwestern Willow Flycatcher,
& Western Yellow-billed Cuckoo
Surveys & Results
Valley - Ivyglen Transmission Line Project**

Map 2E



Legend

- Transmission Route
- Survey Area
- 2010 LBV Sightings

The inset map shows the project area (hatched) in relation to the Temescal Wash, Cleveland National Forest, Lake Elsinore, and Interstate 15. A red line indicates the transmission route, and a yellow box highlights the area shown in the main map.

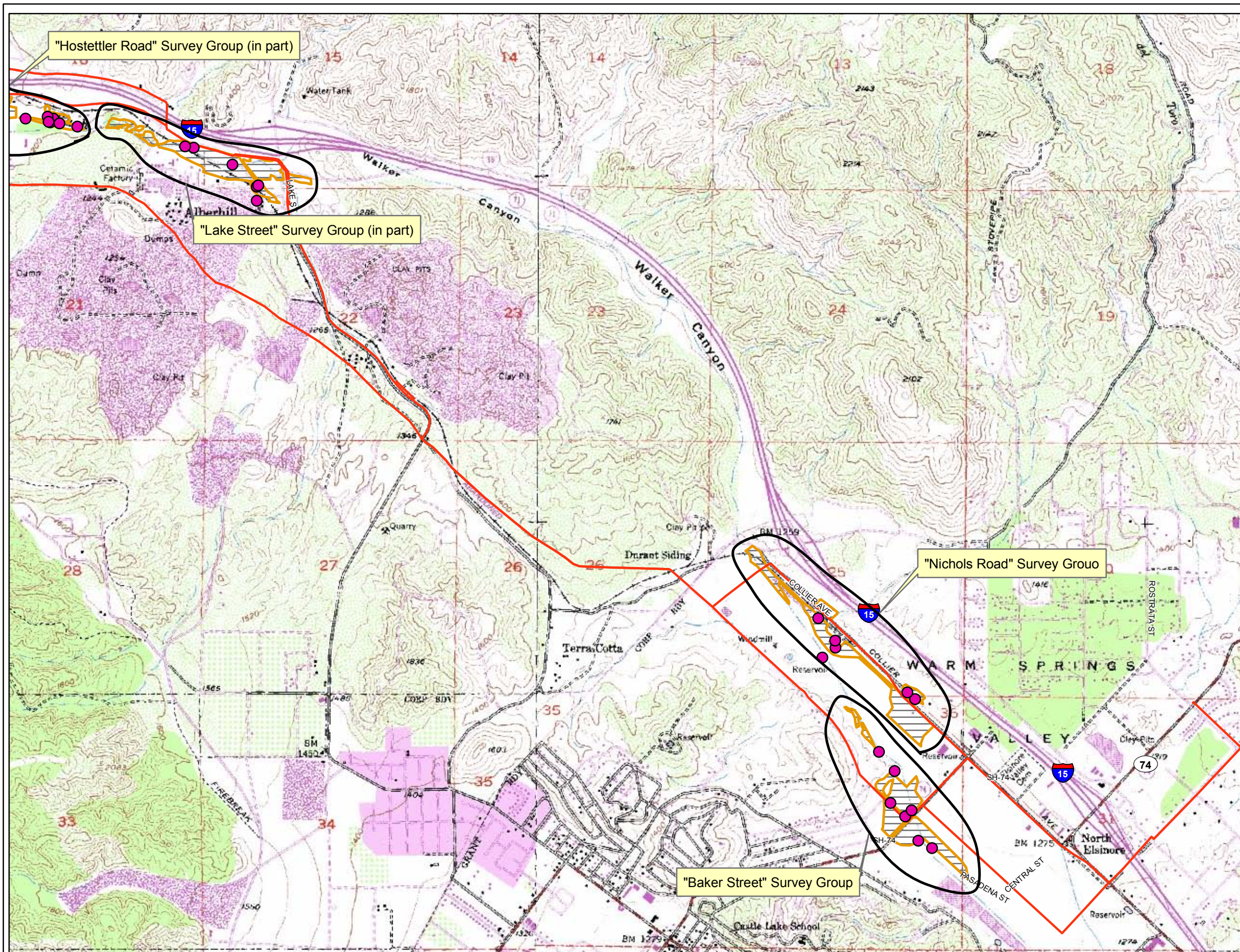
Map Notes

Projection: NAD 83 zone 11
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Sources-SCE ivyglenn routes updated 8.20.09
USGS topo 7.5' Alberhill & lake elsinore
Aerial ESRI-online

1 inch = 2,000 feet

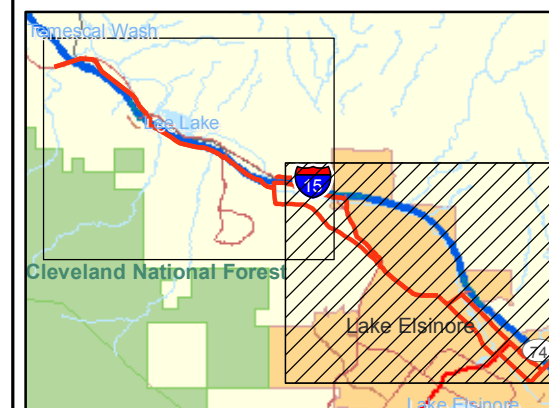
**Least Bell's Vireo,
Southwestern Willow Flycatcher,
& Western Yellow-billed Cuckoo
Surveys & Results
Valley - Ivyglen Transmission Line Project**

Map 3A



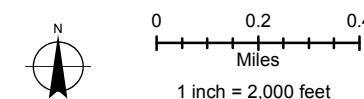
Legend

- Transmission Route
- Survey Area
- 2010 LBV Sightings



Map Notes

Projection: NAD 83 zone 11
 Path-S:\active projects\SCE Projects\Ivyglen.Fogerty
 Substation 6151000801(San Diego)\graphics
 \2010\maps
 Sources-SCE ivyglenn routes updated 8.20.09
 USGS topo 7.5' Alberhill & lake elsinore
 Aerial ESRI-online



**Least Bell's Vireo,
 Southwestern Willow Flycatcher,
 & Western Yellow-billed Cuckoo
 Surveys & Results
 Valley - Ivyglen Transmission Line Project**

**VALLEY- IVYGLEN SUBTRANSMISSION LINE PROJECT
2011 FOCUSED SURVEYS FOR LEAST BELL'S VIREO,
SOUTHWESTERN WILLOW FLYCATCHER,
AND WESTERN YELLOW-BILLED CUCKOO**



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11 November 2011

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AMEC Project No. 1055400435

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1.0 INTRODUCTION

This report presents the findings of focused surveys for the Least Bell's Vireo (*Vireo belli pusillus*), Southwestern Willow Flycatcher (*Empidonax traillii extimus*), and Western Yellow-billed Cuckoo (*Coccyx americana occidentalis*) at suitable habitat patches along Phase II and portions of Phase I of the Valley-Ivyglen Subtransmission Line (VIG) Project (see Map 1).

1.1 Project Description

The proposed VIG Project involves the construction of a new 115kV subtransmission line which will connect the Valley Substation to the Ivyglen Substation. This subtransmission line will be installed within an existing right-of-way (ROW) where available, and within new ROWs where none have been established. The Valley Substation is located in the southwest corner of an unincorporated area known as Romoland, adjacent to the City of Perris. The Ivyglen Substation is located in the southeastern portion of unincorporated Corona, along Temescal Canyon Road near Glen Ivy Hot Springs. The Ivyglen Substation is approximately 19 miles west of the Valley Substation.

The VIG Project will be processed and built in two phases (Figure 1). Phase I is approximately 12 miles long and is proposed for construction in late 2011. Phase II (approximately 13 miles) is still in the planning phase and will not be constructed for several years. The findings presented in this report are associated with Phase II only. The portions of the Phase II ROW that support suitable habitat for the sensitive riparian bird species traverse portions of the *Lake Elsinore, California*, *Alberhill, California*, and *Lake Mathews, California* United States Geological Survey (USGS) 7.5-minute series topographic quadrangles. Portions of this alignment were also surveyed for sensitive riparian birds in 2007 and 2010 (AMEC 2007; AMEC 2010).

The Project is located within the Western Riverside County Multiple Species Conservation Plan (MSHCP or Plan) area. The MSHCP is a comprehensive, multi-jurisdictional plan focusing on the conservation of species and their associated habitats in western Riverside County. SCE will be acquiring Project coverage under the MSHCP as a Participating Special Entity (PSE) with the Regional Conservation Authority (RCA) providing the MSHCP consistency review. The surveys presented in this report were performed to satisfy requirements of the MSHCP (Riverside County 2003).

1.2 Species Information

1.2.1 Least Bell's Vireo

Least Bell's Vireo (LBV) is a small, migratory, insectivorous bird which occurs in willow-dominated riparian habitats. Although this bird is drab in plumage (see title page photo - Hostettler Road survey area [16 May 2011]) and can be secretive within its densely vegetated habitat, males are easy to detect on the breeding grounds due to their conspicuous, diagnostic, and frequently given song. Nesting habitat of this species is restricted to willow and/or mulefat dominated riparian scrub along permanent or nearly permanent streams (Grinnell and Miller 1944, Goldwasser 1978, Franzreb 1987, Garrett and Dunn 1981).

Least Bell's Vireos were formerly widespread and common throughout low-lying riparian habitats of central and southern California, but are now restricted primarily to a limited number of locations in southern California. Habitat reduction has contributed to the species' significant population declines. Nest parasitism by Brown-headed Cowbirds (*Molothrus ater*) has also seriously impacted reproductive success by Least Bell's Vireo, as well as many other species which build cup nests (Goldwasser 1978). Populations are recovering as a result of habitat restoration and cowbird control efforts. Least Bell's Vireo is listed as Endangered by the California Department of Fish and Game (CDFG) and by the U.S. Fish and Wildlife Service (USFWS). A final determination of critical habitat was made in 1994 (USFWS 1994).

1.2.2 Southwestern Willow Flycatcher

The Southwestern Willow Flycatcher (SWF) is a small, brownish flycatcher that was formerly considered a common summer resident in southern California's lowland willow thickets and in low elevation mountain canyons (Garrett and Dunn 1981). The large-scale invasion of southern California by Brown-headed Cowbirds in the 1920s and the loss of willow riparian habitat, has caused the bird to be on the verge of extirpation in southern California. The Willow Flycatcher was listed by the State of California as endangered in 1990. The subspecies *E. t. extimus* (Southwestern Willow Flycatcher) is listed as Endangered by the U.S. Fish and Wildlife Service (USFWS). A final determination of critical habitat was made in October 2005 (USFWS 2005).

Surveys have revealed populations along the Santa Margarita and San Luis Rey rivers in San Diego County, in the San Bernardino Mountains and along the Mojave River in San Bernardino County, the Santa Ynez River in Santa Barbara County, the Santa Clara River in Los Angeles and Ventura counties, the South Fork of the Kern River in Kern County (Unitt 1987, Marshall 2000), and San Timoteo Creek in western Riverside County (R. McKernan, San Bernardino County Museum: pers. comm.). This subspecies also persists in the Lower Colorado River Valley (Marshall 2000, R. McKernan, San Bernardino County Museum, pers. comm.). Unlike LBVs, SWF populations do not appear to have gained any significant benefit from habitat restoration and cowbird control efforts.

The Southwestern Willow Flycatcher breeds in dense riparian habitats near surface water or saturated soil. Plant composition and structure of occupied sites varies greatly depending on the site, but willows often make up much of the understory. Populations along the Colorado River are known to use thickets dominated by both native and nonnative plants (especially salt-cedar [*Tamarix* spp.]). Dense patches of understory vegetation are a critical component of occupied habitat (Sogge *et al.* 2010).

1.2.3 Western Yellow-billed Cuckoo

The Western Yellow-billed Cuckoo (WYBC) is an extremely rare bird in California, with less than 50 pairs found during a statewide survey in 1986-1987. Most of California's Yellow-billed Cuckoos are found in two areas: along the Sacramento River between Red Bluff and Colusa, and along the South Fork Kern River near Weldon (Laymon 1998). Western Yellow-billed Cuckoo was listed as Endangered by the State of California in 1988.

Western Yellow-billed Cuckoos are long distance migrants and return to California from their South American wintering areas in late May and June. Occupied riparian forests are usually larger than 25 acres. Detection of Western Yellow-billed Cuckoos is difficult, as they have large home ranges in dense willow and cottonwood forests and call infrequently. Recorded playback of the species' calls is the recommended method for conducting surveys.

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2.0 METHODS

All of the survey areas (below) were surveyed for LBV and SWF. The habitat structure and/or extent at some of the sites are not suitable for nesting WYBCs. Surveys for the WYBC were conducted at Baker Street, Nichols Road, Lake Street, and Hostettler Road, the only sites with suitable habitat.

In accordance with the currently accepted survey protocol for the Least Bell's Vireo (USFWS 2001), each site was surveyed at least eight times by AMEC Earth and Environment and Infrastructure (AMEC) biologists. The LBV protocol requires surveys to be conducted at least 10 days apart between 10 April and 31 July. The SWF protocol requires five surveys, and that the first survey be performed from 15 May to 31 May, the next two surveys from 1 June to 24 June, and the final two surveys between 25 June and 17 July (Sogge et al. 2010). The SWF surveys were performed concurrently with LBV surveys.

Surveys consisted of slowly moving through the habitat while listening for the songs and calls of the target species. During the SWF surveys, recordings of their vocalizations were broadcast every 20-30 meters, as required by protocol. During WYBC surveys, territorial calls ("Kowlp" calls) were broadcast every 100 meters, with the calls being repeated 5 times at one minute intervals. All bird species detected during the surveys were recorded in field notes.

Surveys were performed by Chet McGaugh (federal Endangered Species Permit TE836517-6), Stephen J. Myers (TE804203-9), and John F. Green (TE054011-2). Tables 1A through 1E summarize the surveys, and Maps 2a through 2k and 3a through 3c, show the survey areas.

2.1 Survey Areas

Areas considered to contain suitable habitat along the western portion of the proposed project route are:

- **Baker Street Survey Area:** Temescal Wash, near Riverside Drive and Baker Street
approximate UTM at south end of survey area: Zone 11, 468250E, 3727250N (WGS84);
approximate UTM at north end of survey area: Zone 11, 467100E, 3728700N (WGS84).
These points occur on lands mapped on the USGS 7.5 minute *Lake Elsinore, Calif.*
quadrangle (see Maps 2c, 2d, and 3b).
 - This area contains well developed riparian forest, woodland, and scrub dominated by willows (*Salix* spp.), Mulefat (*Baccharis salicifolia*), and occasional Fremont Cottonwoods (*Populus fremontii*). Open ponds are also present, and are surrounded by freshwater marsh. One pond along Baker Street is completely covered with Water Hyacinth (*Eichhornia crassipes*). Temescal Wash in this area contained surface water during the entire survey season.

- **Nichols Road Survey Area:** Temescal Wash, near Nichols Road, approximate UTM at south end of survey area: Zone 11, 467600E, 3728400N (WGS84); approximate UTM at north end of survey area: 466500E, 3729700N (WGS84). These points occur on lands mapped on the USGS 7.5 minute *Lake Elsinore, Calif.* quadrangle (see Maps 2c, 2d, and 3b).
 - The habitat in this survey area is a continuation of that of Baker Street. Proceeding north along Temescal Wash, the habitat becomes somewhat more fragmented, and there is a larger proportion of low, scrubby, willow habitat. Stringers of willow scrub and woodland are separated from one another in this area by large stands of freshwater marsh; a few open ponds are also present. The stream in Temescal Wash flowed throughout this reach during the entire survey season.
- **Lake Street Survey Area:** Temescal Wash, near Lake Street approximate UTM at east end of survey area: Zone 11, 463800E, 3732000N (WGS84); approximate UTM at west end of survey area: Zone 11, 462770E, 3732300N (WGS84). These points occur on lands mapped on the USGS 7.5 minute *Alberhill, Calif.* and *Lake Elsinore, Calif.* quadrangles respectively (see Maps 2e, 2f and 3b).
 - Temescal Wash in the area of Lake Street is lined with a mixture of native and nonnative vegetation. Gum trees (*Eucalyptus* spp.) are dominant, with intermittent thickets of willows and scattered Fremont Cottonwoods. Surface water was perennial in portions of this area, but intermittent in others. In 2011, the survey area of 2010 was enlarged by the addition of habitat east of Lake Street (Maps 2e and 3b), while disjunct habitat patches ("outliers") surveyed in the Lake Street Survey Area in 2010 were surveyed in the newly established Outliers Survey Area in 2011.
- **Hostettler Road Survey Area:** Temescal Wash, near Hostettler Road, approximate UTM at east end of survey area: Zone 11, 462750E, 3732300N (WGS84); approximate UTM at west end of survey area: Zone 11, 461300E, 3732800N (WGS84). These points occur on lands mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle (see Maps 2g and 3b).
 - This area is along Temescal Wash, and is downstream and nearly contiguous with the Lake Street area. Some *Eucalyptus* occurs, but most of the vegetation is native willows, cottonwoods, and Coast Live Oaks (*Quercus agrifolia*). The creek was flowing throughout the survey period. In 2011, disjunct habitat patches ("outliers") surveyed in the Hostettler Road Survey Area in 2010 were surveyed in the newly established Outliers Survey Area in 2011.

In 2011, ten (10) disjunct habitat patches, comprising one survey day, were named "Outliers Survey Areas;" some of these areas were surveyed as part of Hostettler Road Survey Area and Lake Street Survey Areas in 2010. Small habitat patches along Highway 74 were added to the survey effort in 2011 (see Maps 2a, 2b, and 3a).

Peach Street Outlier consists of two habitat patches bisected by Highway 74: approximate UTM at east end of survey area: Zone 11, 463800E, 3732000N (WGS84); approximate UTM at west end of survey area: Zone 11, 462770E, 3732300N (WGS84). These points occur on lands mapped on the USGS 7.5 minute Alberhill, Calif. and Lake Elsinore, Calif. quadrangles respectively (see Maps 2a and 3a).

The two habitat patches consist of tall (up to 40 feet) as well as shrubby willows (*Salix lauegata*, *S. gooddingii*), and a few *Eucalyptus*.

Wasson Canyon Outlier consists of two habitat patches bisected by Highway 74: approximate UTM at east end of survey area: Zone 11, 463800E, 3732000N (WGS84); approximate UTM at west end of survey area: Zone 11, 462770E, 3732300N (WGS84). These points occur on lands mapped on the USGS 7.5 minute Alberhill, Calif. and Lake Elsinore, Calif. quadrangles respectively (see Maps 2a and 3a).

The riparian patch north of the highway contains willows, a few Fremont Cottonwoods and a good understory. To the north are tall eucalyptus. South of the highway, the habitat contains willows, Peruvian Peppers (*Shinus molle*) and several *Eucalyptus*.

Rosetta Outlier is a habitat patch southeast of Highway 74): approximate UTM at east end of survey area: Zone 11, 463800E, 3732000N (WGS84); approximate UTM at west end of survey area: Zone 11, 462770E, 3732300N (WGS84). These points occur on lands mapped on the USGS 7.5 minute Alberhill, Calif. and Lake Elsinore, Calif. quadrangles respectively (see Maps 2b and 3a).

Riparian habitat consists of shrubby willows and a few large *Eucalyptus*.

Indian Truck Trail Outlier is a habitat patch southeast of Interstate 15 (Map 2i): approximate UTM at east end of survey area: Zone 11, 463800E, 3732000N (WGS84); approximate UTM at west end of survey area: Zone 11, 462770E, 3732300N (WGS84). These points occur on lands mapped on the USGS 7.5 minute Alberhill, Calif. Quadrangle (see Maps 2i and 3c).

Riparian habitat at the end of the I-15 freeway off-ramp consists of willows and Fremont Cottonwoods, and a small Coast Live Oak.

De Palma Outlier is a small riparian patch south of De Palma Road, approximately 0.3 mile south of Corona Lake; approximate UTM near the center of survey area: Zone 11, 459200E, 3733600N (WGS84). This point occurs on land mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle (see Maps 2h and 3c).

This small patch of riparian scrub (willows and Mulefat) is adjacent to extensive oak woodlands, which lie to the southwest. No surface water or saturation was visible at this site.

Old Road Outliers are riparian patches east and west of Temescal Canyon Road, approximately 0.3 mile northwest of Corona Lakes; approximate UTM near the center of the survey area: Zone 11, 457900E, 3735000N (WGS84). This point occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Maps 2j and 3c).

At this site, an old strip of former asphalt roadway is lined with scattered willows, cottonwoods, and Mulefat. No surface water is present. Sometime during June of 2010, bulldozing of adjacent uplands removed some of the scrubby willows and Mulefat.

El Hermano Outlier is a riparian patch southwest of Temescal Canyon Road, approximately 0.2 mile southwest of El Hermano Road: approximate UTM of survey area: Zone 11, 457250E, 37355000N (WGS84). This point occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Maps 2j and 3c).

A small patch of shrubby willows and Mulefat occurs at this site. The site had some surface water during the entire survey season. A grove of large gum trees is adjacent to the east of the riparian scrub.

Temescal Wash Outlier is approximately 0.3 mile northwest of El Hermano Road and northeast of Temescal Canyon Road): approximate UTM of survey area: Zone 11, 456950E, 3735980N (WGS84). This point occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Maps 2k and 3c)

This survey area consisted of a short reach of Temescal Wash. The vegetation consists of a relatively narrow strip of willow woodland and scrub. The stream flowed throughout the survey season.

The Yard Outlier is a small riparian patch southwest of Temescal Canyon Road, approximately 0.25 mile west of El Hermano Road: approximate UTM of survey area: Zone 11, 457700E, 3735120N (WGS84). This point occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Maps 2j and 3c).

A patch of shrubby willows and Mulefat occurs at this site. The site had some surface water during the entire survey season.

The Basin Outlier riparian patch is in a detention basin southwest of Temescal Canyon Road, just south of its intersection with Campbell Ranch Road: approximate UTM at center of survey area: Zone 11, 456100E, 3735680N (WGS84). This point occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Maps 2k and 3c).

This patch of approximately one acre of scrubby willow, Mulefat, and Salt-Cedar (*Tamarix ramosissima*) is within a detention basin. The Salt-Cedar occurs primarily around the perimeter of the basin, with dense willow scrub occurring in the center of the basin. No surface water or saturation was visible during the surveys.

Table 1A.
LBV/SWF/WYBC Surveys: "Baker Street Survey Area"

Date	Observer	Target Species	Time	Temp. (°F)	Wind (mph)	Sky (% cover)
10 April	Chet McGaugh	LBV	0645-1005	35-55	0	0
20 April	Chet McGaugh	LBV	0645-1005	58-59	0	0
2 May	Chet McGaugh	LBV	0635-0940	47-75	0	0
12 May	John F. Green	LBV	0715-1015	57-74	0-3	0
24 May	Stephen J. Myers	LBV, SWF	0630-1050	53-67	0	20
7 June	John F. Green	LBV, SWF	0650-1105	62-83	0-5	0-20
20 June	Chet. McGaugh	LBV, SWF, WYBC	0645-1010	70-85	0	0
30 June	Chet McGaugh	LBV, SWF	0630-1030	59-83	0	100-0
12 July	Chet McGaugh	SWF, WYBC	0620-1000	63-74	0	100-0
27 July	Chet McGaugh	WYBC	0625-1000	65-80	0	0
10 August	John F. Green	WYBC	0725-1040	61-80	0-1	100-0

Table 1B.
LBV/SWF/WYBC Surveys: "Nichols Road Survey Area"

Date	Observer	Target Species	Time	Temp. (°F)	Wind (mph)	Sky (% cover)
11 April	Chet McGaugh	LBV	0655-1140	44-68	0	70-95
21 April	Chet McGaugh	LBV	0650-1040	56-65	0-2	100
5 May	John F. Green	LBV	0650-1110	57-76	0-3	0
21 May	Chet McGaugh	LBV, SWF	0725-1010	60-74	0	100-85
6 June	Stephen J. Myers	LBV, SWF	0635-1100	48-72	0	20-80
16 June	Stephen J. Myers	LBV, SWF, WYBC	0620-1055	59-76	0	100-20
30 June	Stephen J. Myers	LBV, SWF	0640-1020	59-78	0	0
11 July	John F. Green	LBV, SWF, WYBC	0610-0950	64-73	0-2	100-haze
26 July	Stephen J. Myers	WYBC	0700-1010	66-88	0	0
10 August	Chet McGaugh	WYBC	0650-0945	61-76	0	100-0

Table 1C.
LBV/SWF/WYBC Surveys: "Lake Street Survey Area"

Date	Observer	Target Species	Time	Temp. (°F)	Wind (mph)	Sky (% cover)
14 April	Chet McGaugh	LBV	0700-1005	45-64	0	0
2 May	John F. Green	LBV	0650-1015	49-83	0-5	0
13 May	Chet McGaugh	LBV	0630-1010	54-76	0	0
25 May	Chet McGaugh	LBV, SWF	0635-0950	58-74	0	0
7 June	Chet McGaugh	LBV, SWF	0650-0945	58-60	0-3	0
21 June	Chet McGaugh	LBV, SWF	0645-1050	72-85	0	0
1 July	Chet McGaugh	LBV, SWF, YBCU	0650-1030	64-89	0	0
12 July	Stephen J. Myers	LBV, SWF, YBCU	0635-1020	64-76	0-2	100-0
26 July	John F. Green	YBCU	0625-0930	69-82	0	haze
9 August	Chet McGaugh	YBCU	0700-1020	65-78	0	100-0

Table 1D.
LBV/SWF/WYBC Surveys: "Hostettler Road Survey Area"

Date	Observer	Target Species	Time	Temp. (°F)	Wind (mph)	Sky (% cover)
15 April	John F. Green	LBV	0745-1000	56-69	0-2	10-0
3 May	Chet McGaugh	LBV	0630-0950	54-78	0	0
16 May	Chet McGaugh	LBV, SWF	0635-1000	52-61	0	40
2 June	Stephen J. Myers	LBV, SWF	0740-1040	59-73	0-3	0
13 June	Stephen J. Myers	LBV, SWF	0710-1055	59-74	0-2	100-0
29 June	Stephen J. Myers	LBV, SWF, WYBC	0655-1030	62-76	0-5	100-0
11 July	Stephen J. Myers	LBV, SWF, WYBC	0720-1030	64-77	0	0
25 July	C. McGaugh	LBV, WYBC	0625-0930	69-82	0	haze
8 August	C. McGaugh	WYBC	0605-0940	62-82	0	0

Table 1E.
LBV/SWF/WYBC Surveys: "Outliers Survey Areas"

Date	Observer	Target Species	Time	Temp. (°F)	Wind (mph)	Sky (% cover)
13 April	John F. Green	LBV	0700-1000	60	0-2	15-80
6 May	Chet McGaugh	LBV	0655-1055	57-81	0	0
17 May	Chet McGaugh	(LBV, SWF)	0625-0900	--	--	Rain*
24 May	Chet McGaugh	LBV, SWF	0620-1045	46-71	0	0
6 June	Chet McGaugh	LBV, SWF	0615-1010	55-70	0	10-20
17 June	Chet McGaugh	LBV, SWF	0630-1130	62-75	0	100
28 June	Chet McGaugh	LBV, SWF	0645-1115	63-88	0-3	0
14 July	Chet McGaugh	LBV, SWF	0625-1000	65-70	0	100, drizzle
20 July	John F. Green	LBV	0635-0900	64-81	1-2	0

* survey postponed

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3.0 RESULTS

3.1 Critical Habitat

The project area is not within designated Critical Habitat for either the Least Bell's Vireo or Southwestern Willow Flycatcher.

3.2 Survey Results

One hundred and twenty (120) bird species were detected during the focused surveys. Among the most frequently detected species were the following birds that are typical of lowland riparian habitats in southern California: Mourning Dove (*Zenaida macroura*), Black-chinned Hummingbird (*Archilochus alexandri*), Nuttall's Woodpecker (*Picoides nuttallii*), Black Phoebe (*Sayornis nigricans*), Bushtit (*Psaltiriparus minimus*), House Wren (*Troglodytes aedon*), Yellow Warbler (*Setophagapetechia*), Common Yellowthroat (*Geothlypis trichas*), Song Sparrow (*Melospiza melodia*), and Lesser Goldfinch (*Spinus psaltria*).

3.2.1 Southwestern Willow Flycatcher

No Southwestern Willow Flycatchers were detected at any of the survey areas. On 7 June, a single, vocal Willow Flycatcher was in the Lake Street survey area. This date is within the normal period of fall migration of the species in southern California, and the bird was not found on subsequent spring surveys. Therefore, AMEC concludes that this bird was a migrant of a more northerly subspecies, and not a Southwestern Willow Flycatcher (subspecies *E.t. extimus*).

The USFWS requires that "Willow Flycatcher Survey and Detection Forms" be completed; these forms are included as Appendix B.

3.2.2 Least Bell's Vireo

Least Bell's Vireos were detected more or less continuously from the "Baker Street" survey area to the "Hostettler Road" survey area (see Maps 2c through 2g and 3b). The precise number of territories throughout this reach is not possible to ascertain within the constraints of presence/absence survey protocols, but an estimate of 10 - 15 territories, based on mapped occurrences, seems reasonable. Least Bell's Vireos were not detected at any of the Outliers survey areas.

3.2.3 Western Yellow-billed Cuckoo

No Western Yellow-billed Cuckoos were detected at any of the survey areas. These results are consistent with AMEC's previous surveys in 2007 and 2010. Appendix C contains Yellow-billed Cuckoo Survey Data Forms.

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4.0 LITERATURE CITED AND REFERENCES

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Southwestern willow flycatcher and Western Yellow-Billed Cuckoo
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APPENDIX A

BIRD SPECIES LIST

Southern California Edison
Valley- Ivyglen Subtransmission Line Project
2011 Focused Surveys for Least Bell's Vireo
Southwestern willow flycatcher and Western Yellow-Billed Cuckoo
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Appendix A Bird Species List

This list reports only bird species or their sign which were observed along the project alignment during 2011 focused bird surveys. Nomenclature and taxonomy for birds observed on site generally follows the American Ornithologists' Union Checklist (1998) and its supplements.

SYMBOLS AND ABBREVIATIONS:

- * Sensitive species (State or Federally Listed as Threatened or Endangered, or a CDFG Species of Special Concern / Watch List Species, or a USFWS Bird of Conservation Concern)

BIRDS

Swans, Geese, and Ducks

Wood Duck
Gadwall
Mallard
Blue-winged Teal
Cinnamon Teal
*Redhead
Ruddy Duck

New World Quail

California Quail

Grebes

Pied-billed Grebe

Phalacrocoradidae

*Double-crested Cormorant

Pelecanidae

American White Pelican

Bitterns and Herons

American Bittern
Great Blue Heron
Great Egret
Snowy Egret
Cattle Egret
Green Heron
Black-crowned Night-Heron

AVES

Anatidae

Aix sponsa
Anas strepera
Anas platyrhynchos
Anas discor
Anas cyanoptera
Aythya americana
Oxyura jamaicensis

Odontophoridae

Callipepla californica

Podicipedidae

Podilymbus podiceps

Darters

Phalacrocorax auritus

Pelicans

Pelecanus erythrorhynchos

Ardeidae

Botaurus lentiginosus
Ardea herodias
Ardea alba
Egretta thula
Bubulcus ibis
Butorides virescens
Nycticorax nycticorax

Threskiornithidae

White-faced Ibis

New World Vultures

Turkey Vulture

Hawks, Kites, Eagles

*Northern Harrier?

*Cooper's Hawk

Red-shouldered Hawk

Swainson's Hawk

Red-tailed Hawk

Falcons

American Kestrel

Rallidae

Virginia Rail

Common Gallinule

American Coot

Plovers and Lapwings

Killdeer

Recurvirostridae

Black-necked Stilt

American Avocet

Sandpipers, Phalaropes, and Allies

Spotted Sandpiper

Solitary Sandpiper

Greater Yellowlegs

Western Sandpiper

Least Sandpiper

Long-billed Dowitcher

Wilson's Snipe

Wilson's Phalarope

Laridae

Ring-billed Gull

California Gull

*Caspian Tern

Ibises and Spoonbills

Plegadis chihi

Cathartidae

Cathartes aura

Accipitridae

Circus cyaneus

Accipiter cooperii

Buteo lineatus

Buteo swainsoni

Buteo jamaicensis

Falconidae

Falco sparverius

Rails, Gallinules, Coots

Rallus limicola

Gallinula galeata

Fulica americana

Charadriidae

Charadrius vociferus

Stilts and Avocets

Himantopus mexicanus

Recurvirostra americana

Scolopacidae

Actitis macularius

Tringa solitaria

Tringa melanoleuca

Calidris mauri

Calidris minutilla

Limnodrumus scolopaceus

Gallinago delicata

Phalaropus tricolor

Gulls and Terns

Larus delawarensis

Larus californicus

Hydroprogne caspia

Pigeons and Doves

Rock Pigeon (nonnative)
Band-tailed Pigeon
Eurasian Collared-Dove (nonnative)
Mourning Dove
Common Ground-Dove

Columbidae

Columba livia
Patagioenas fasciata
Streptopelia decaocto
Zenaida macroura
Columbina passerina

Cuckoos, Roadrunners, Allies

Greater Roadrunner

Cuculidae

Geococcyx californianus

Barn Owls

Barn Owl

Tytonidae

Tyto alba

Typical Owls

Great Horned Owl

Strigidae

Bubo virginianus

Swifts

*Vaux's Swift
White-throated Swift

Apodidae

Chaetura vauxi
Aeronautes saxatalis

Hummingbirds

Black-chinned Hummingbird
Anna's Hummingbird
Costa's Hummingbird
Allen's Hummingbird

Trochilidae

Archilochus alexandri
Calypte anna
Calypte costae
Selasphorus sasin

Alcedinidae

Belted Kingfisher

Kingfishers

Ceryle alcyon

Woodpeckers and Allies

Acorn Woodpecker
Nuttall's Woodpecker
Downy Woodpecker
Northern Flicker

Picidae

Melanerpes formicivorus
Picoides nuttallii
Picoides pubescens
Colaptes auratus

Flycatchers

Western Wood-Pewee
*Willow Flycatcher
Western (Pacific-slope) Flycatcher
Black Phoebe
Ash-throated Flycatcher
Cassin's Kingbird
Western Kingbird

Tyrannidae

Contopus sordidulus
Empidonax traillii
Empidonax difficilis
Sayornis nigricans
Myiarchus cinerascens
Tyrannus vociferus
Tyrannus verticalis

Vireos

*Least Bell's Vireo
Hutton's Vireo
Warbling Vireo

Jays, Magpies and Crows

Western Scrub-Jay
American Crow
Common Raven

Swallows

Tree Swallow
Northern Rough-winged Swallow
Cliff Swallow
Barn Swallow

Titmice and Chickadees

Mountain Chickadee
Oak Titmouse

Long-tailed Tits and Bushtits

Bushtit

Wrens

Rock Wren
Bewick's Wren
House Wren
Marsh Wren

Sylviid Warblers

Wrentit

Mockingbirds, Thrashers, and Allies

Northern Mockingbird
California Thrasher

Starlings and Allies

European Starling (nonnative)

Silky-Flycatchers

Phainopepla

Vireonidae

Vireo bellii pusillus
Vireo huttoni
Vireo gilvus

Corvidae

Aphelocoma californica
Corvus brachyrhynchos
Corvus corax

Hirundinidae

Tachycineta biclor
Stelgidopteryx serripennis
Petrochelidon pyrrhonota
Hirundo rustica

Paridae

Poecile gambeli
Baeolophus inornatus

Aegithalidae

Psaltiriparus minimus

Troglodytidae

Salpinctes obsoletus
Thryomanes bewickii
Troglodytes aedon
Cistothorus palustris

Sylviidae

Chamaea fasciata

Mimidae

Mimus polyglottos
Toxostoma redivivum

Sturnidae

Sturnus vulgaris

Ptilogonatidae

Phainopepla nitens

Wood-Warblers

Orange-crowned Warbler
Nashville Warbler
Common Yellowthroat
*Yellow Warbler
Yellow-rumped Warbler
Black-throated Gray Warbler
Wilson's Warbler
*Yellow-breasted Chat

Emberizines

Spotted Towhee
*Southern California Rufous-crowned Sparrow
California Towhee
Lark Sparrow
*Bell's Sage Sparrow
Savannah Sparrow
Song Sparrow
Lincoln's Sparrow

Cardinals and Allies

Western Tanager
Black-headed Grosbeak
Blue Grosbeak
Lazuli Bunting?

Blackbirds and Allies

Red-winged Blackbird
*Tricolored Blackbird
Western Meadowlark
Yellow-headed Blackbird
Brewer's Blackbird
Great-tailed Grackle
Brown-headed Cowbird
Hooded Oriole
Bullock's Oriole

Finches and Allies

Purple Finch
House Finch
Lesser Goldfinch
*Lawrence's Goldfinch
American Goldfinch

Old World Sparrows

House Sparrow (nonnative)

Parulidae

Oreothlypis celata
Oreothlypis ruficapilla
Geothlypis trichas
Setophaga petechia
Seophaga coronata
Setophaga nigrescens
Cardellina pusilla
Icteria virens

Emberizidae

Pipilo maculatus
Aimophila ruficeps canescens
Pipilo crissalis
Chondestes grammacus
Amphispiza belli belli
Passerculus sandwichensis
Melospiza melodia
Melospiza lincolnii

Cardinalidae

Piranga ludoviciana
Pheucticus melanocephalus
Passerina caerulea
Passerina amoena

Icteridae

Agelaius phoeniceus
Agelaius tricolor
Sturnella neglecta
Xanthocephalus xanthocephalus
Euphagus cyanocephalus
Quiscalus mexicanus
Molothrus ater
Icterus cucullatus
Icterus bullockii

Fringillidae

Carpodacus purpureus
Carpodacus mexicanus
Spinus psaltria
Spinus lawrencei
Spinus tristis

Passeridae

Passer domesticus

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APPENDIX B

SOUTHWESTERN WILLOW FLYCATCHER SURVEY FORMS

Southern California Edison
Valley- Ivyglen Subtransmission Line Project
2011 Focused Surveys for Least Bell's Vireo
Southwestern willow flycatcher and Western Yellow-Billed Cuckoo
AMEC Project No. 1055400435
November 2011



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Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name SCE WY GLEN - "BAKER STREET" State CA County RIVERSIDE
 USGS Quad Name LAKE ELSINORE Elevation 385* (meters)
 Creek, River, Wetland, or Lake Name TEMESCAL WASH
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes X No

Survey Coordinates: Start: E 460250 N 3727250 UTM Datum N6584 (See instructions)
 Stop: E 467100 N 3728700 UTM Zone 11S

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
							# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) STEPHEN J. MYERS	Date <u>24 MAY</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Start <u>0630</u>									
	Stop <u>1050</u>									
	Total hrs <u>4:20</u>									
Survey # 2 Observer(s) JOHN F. GREEN	Date <u>06 JUN</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Start <u>0650</u>									
	Stop <u>1105</u>									
	Total hrs <u>4:15</u>									
Survey # 3 Observer(s) CHET MCGAUGH	Date <u>20 JUNE</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Start <u>0645</u>									
	Stop <u>1010</u>									
	Total hrs <u>3:25</u>									
Survey # 4 Observer(s) CHET MCGAUGH	Date <u>30 JUNE</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Start <u>0630</u>									
	Stop <u>1030</u>									
	Total hrs <u>4:00</u>									
Survey # 5 Observer(s) CHET MCGAUGH	Date <u>12 JULY</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Start <u>0620</u>									
	Stop <u>1000</u>									
	Total hrs <u>3:40</u>									
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <u> </u> No <u> </u> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>					

Reporting Individual CHET MCGAUGH Date Report Completed
 US Fish and Wildlife Service Permit # State Wildlife Agency Permit #
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

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

Reporting Individual CHET MCGAUGH Phone # 951 369-8060
Affiliation AMEC EARTH + ENVIRONMENTAL E-mail chetmgaugh@amec.com
Site Name SCF WYELON "BAKER STREET" Date Report Completed _____

Was this site surveyed in a previous year? Yes ☒ No _____ Unknown _____

Did you verify that this site name is consistent with that used in previous years? Yes ☒ No _____ Not Applicable _____

If site 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 below.

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

Management Authority for Survey Area: Federal _____ Municipal/County ☒ State _____ Tribal _____ Private ☒

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

Length of area surveyed: ~122 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

_____ Native broadleaf plants (entirely or almost entirely, > 90% native)

☒ Mixed native and exotic plants (mostly native, 50 - 90% native)

_____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

_____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.

SALIX LAFUGATA, SALIX GOODINGII, POBULUS FREMONTII

Average height of canopy (Do not include a range): 12 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

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

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

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name SCE WYGLIN "NICHOLS ROAD" State CA County RIVERSIDE
 USGS Quad Name LAKE ELSINORE Elevation 385 (meters)
 Creek, River, Wetland, or Lake Name TOMESCAL WASH
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes No

Survey Coordinates: Start: E 462600 N 3728400 UTM Datum WGS 84 (See instructions)
 Stop: E 466500 N 3729700 UTM Zone 11S

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Survey time						# Birds	Sex	UTM E	UTM N
Survey # 1	Date <u>21 MAY</u>									
Observer(s)	Start <u>0725</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
<u>CHET MCGAUGH</u>	Stop <u>1010</u>									
	Total hrs <u>2:45</u>									
Survey # 2	Date <u>6 JUNE</u>									
Observer(s)	Start <u>0635</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
<u>STEPHEN S. MYERS</u>	Stop <u>1100</u>									
	Total hrs <u>4:25</u>									
Survey # 3	Date <u>16 JUNE</u>									
Observer(s)	Start <u>0620</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
<u>STEPHEN S. MYERS</u>	Stop <u>1055</u>									
	Total hrs <u>4:35</u>									
Survey # 4	Date <u>30 JUNE</u>									
Observer(s)	Start <u>0640</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
<u>STEPHEN S. MYERS</u>	Stop <u>1020</u>									
	Total hrs <u>3:40</u>									
Survey # 5	Date <u>11 JUL</u>									
Observer(s)	Start <u>0610</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
<u>JOHN F. GREEN</u>	Stop <u>0950</u>									
	Total hrs <u>3:20</u>									
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals.		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <u> </u> No <u> </u> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
Total Survey Hrs <u>18:45</u>		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>					

Reporting Individual CHET MCGAUGH Date Report Completed
 US Fish and Wildlife Service Permit # State Wildlife Agency Permit #

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

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

Reporting Individual CHET MCGAUGH Phone # 951-369-8060
Affiliation AMEC EARTH & ENVIRONMENTAL E-mail chetmgaugh@amec.com
Site Name SCE IVY GLEN "NICHOLS ROAD" Date Report Completed

Was this site surveyed in a previous year? Yes ☒ No ☐ Unknown ☐

Did you verify that this site name is consistent with that used in previous years? Yes ☒ No ☐ Not Applicable ☐

If site 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 below.

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

Management Authority for Survey Area: Federal ☐ Municipal/County ☒ State ☐ Tribal ☐ Private ☒

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

Length of area surveyed: 1.69 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

☐ Native broadleaf plants (entirely or almost entirely, > 90% native)

☒ Mixed native and exotic plants (mostly native, 50 - 90% native)

☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.

SALIX LAUREATA, SALIX EXIGUA, SALIX GOODINGII, POPULUS FREMONTII

Average height of canopy (Do not include a range): 10 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

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

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

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Tynglen Project (Lake Street) State CA County Riverside
 USGS Quad Name Lake Elsinore, Alberhill Elevation 365 (meters)
 Creek, River, Wetland, or Lake Name Temescal Wash

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

2 patches → Survey Coordinates: Start 462760 E 3732280 N UTM Datum WGS 84 (See instructions)
 Stop 463730 E 3732040 N
 Stop: E 464420 E N 3730670 N UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Survey time						# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) <u>CHET</u> <u>MCGAUGH</u>	Date <u>25 MAY</u> Start <u>0635</u> Stop <u>0950</u> Total hrs <u>3:15</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 2 Observer(s) <u>CHET</u> <u>MCGAUGH</u>	Date <u>7 June</u> Start <u>0650</u> Stop <u>0945</u> Total hrs <u>2:55</u>	<u>1</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>Determined to be a LATE MIGRANT (NOT 'EXTIMUS') based on subsequent surveys</u>				
Survey # 3 Observer(s) <u>CHET</u> <u>MCGAUGH</u>	Date <u>21 June</u> Start <u>0650</u> Stop <u>0945</u> Total hrs <u>4:05</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 4 Observer(s) <u>CHET</u> <u>MCGAUGH</u>	Date <u>1 July</u> Start <u>0650</u> Stop <u>1050</u> Total hrs <u>3:40</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 5 Observer(s) <u>STEPHEN J. Myers</u>	Date <u>12 July</u> Start <u>0635</u> Stop <u>1020</u> Total hrs <u>3:45</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs <u>18:40</u>		Total Adult Residents <u>0</u>	Total Pairs <u>0</u>	Total Territories <u>0</u>	Total Nests <u>0</u>	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				

Reporting Individual Stephen J. Myers Date Report Completed _____
 US Fish and Wildlife Service Permit # TE 804203-9 State Wildlife Agency Permit # SC-1951
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

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

Reporting Individual Stephen J. Myers Phone # 957-369-8060 ext 111
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley-Ivyglen Project (Lake Street) Date Report Completed _____
Was this site surveyed in a previous year? Yes ☒ No _____ Unknown _____
Did you verify that this site name is consistent with that used in previous years? Yes ☒ No _____ Not Applicable _____
If site 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 below.
Did you survey the same general area during each visit to this site this year? Yes ☒ No _____ If no, summarize below.
Added a narrow strip of habitat SE of Alberhill
Management Authority for Survey Area: Federal _____ Municipal/County ☒ State _____ Tribal _____ Private ☒
Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: _____ (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- _____ Native broadleaf plants (entirely or almost entirely, > 90% native)
☒ Mixed native and exotic plants (mostly native, 50 - 90% native)
_____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
_____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.

Salix gooddingii, Salix lasiolepis, Eucalyptus spp.

Average height of canopy (Do not include a range): 15 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

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

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

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name SCE WYGLN "HOSTETTLER ROAD" State CA County RIVERSIDE
 USGS Quad Name ALBERHILL Elevation 365 (meters)
 Creek, River, Wetland, or Lake Name TEMPERATE WASH

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

Survey Coordinates: Start: E 462750 N 3732800 UTM Datum WGS84 (See instructions)
 Stop: E 461300 N 3732800 UTM Zone 11S

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
							# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) CHET MCGAUGH	Date <u>28 MAY</u> <u>2011</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Start <u>0705</u>									
	Stop <u>1045</u>									
	Total hrs <u>3:40</u>									
Survey # 2 Observer(s) STEPHEN J. MYERS	Date <u>2 JUNE</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Start <u>0645</u>									
	Stop <u>1100</u>									
	Total hrs <u>4:15</u>									
Survey # 3 Observer(s) STEPHEN J. MYERS	Date <u>11 JUNE</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Start <u>0655</u>									
	Stop <u>1000</u>									
	Total hrs <u>3:05</u>									
Survey # 4 Observer(s) STEPHEN J. MYERS	Date <u>2 JULY</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Start <u>0645</u>									
	Stop <u>1030</u>									
	Total hrs <u>3:45</u>									
Survey # 5 Observer(s) STEPHEN J. MYERS	Date <u>12 JULY</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Start <u>0645</u>									
	Stop <u>1035</u>									
	Total hrs <u>3:50</u>									
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs <u>18:35</u>		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				

Reporting Individual CHET MCGAUGH Date Report Completed _____
 US Fish and Wildlife Service Permit # _____ State Wildlife Agency Permit # _____

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

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

Reporting Individual CHET MCGAUGH Phone # 951 362-8060
Affiliation ANCC EARTH + ENVIRONMENTAL E-mail chetmcsaugh@ancc.com
Site Name SCE WYGLON "HOSTETTLER ROAD" Date Report Completed _____

Was this site surveyed in a previous year? Yes ☒ No _____ Unknown _____

Did you verify that this site name is consistent with that used in previous years? Yes ☒ No _____ Not Applicable _____

If site 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 below.

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

Management Authority for Survey Area: Federal _____ Municipal/County ☒ State _____ Tribal _____ Private ☒

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

Length of area surveyed: .9 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

_____ Native broadleaf plants (entirely or almost entirely, > 90% native)

☒ Mixed native and exotic plants (mostly native, 50 - 90% native)

_____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

_____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.

SALIX LAMIGATA, SALIX GOODINGII, SALIX LASIOLEPIS

Average height of canopy (Do not include a range): 12 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

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

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

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley - Ivyglen Project (Peach St. Outliers) State CA County Riverside
 USGS Quad Name Lake Elsinore Elevation 500 (meters)
 Creek, River, Wetland, or Lake Name Un named creek

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

Survey Coordinates: Start: E 472500 N 3731170 UTM Datum WGS 84 (See instructions)
 Stop: E 472460 N 3730890 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Survey time						# Birds	Sex	UTME	UTMN
Survey # 1 Observer(s) <u>Chet McGaugh</u>	Date <u>24 May 11</u> Start Stop Total hrs <u>0.33</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 2 Observer(s) <u>Chet McGaugh</u>	Date <u>6 June 11</u> Start Stop Total hrs <u>0.33</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 3 Observer(s) <u>Chet McGaugh</u>	Date <u>17 June 11</u> Start Stop Total hrs <u>0.33</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 4 Observer(s) <u>Chet McGaugh</u>	Date <u>28 June 11</u> Start Stop Total hrs <u>0.33</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 5 Observer(s) <u>Chet McGaugh</u>	Date <u>14 July 11</u> Start Stop Total hrs <u>0.33</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs <u>1.65</u>		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>					

Reporting Individual Stephen J. Myers Date Report Completed 16/31/11
 US Fish and Wildlife Service Permit # TE 804203-9 State Wildlife Agency Permit # SC-001951

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

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

Reporting Individual Stephen J. Myers Phone # 951-369-8060, ext. 111
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley - Ivy Glen Project (Peach St. Officers) Date Report Completed _____

Was this site surveyed in a previous year? Yes _____ No ☒ Unknown _____

Did you verify that this site name is consistent with that used in previous years? Yes _____ No _____ Not Applicable ☒

If site 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 below.

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

Management Authority for Survey Area: Federal _____ Municipal/County _____ State _____ Tribal _____ Private ☒ ?

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

Length of area surveyed: 0.18 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

☒ Native broadleaf plants (entirely or almost entirely, > 90% native)

_____ Mixed native and exotic plants (mostly native, 50 - 90% native)

_____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

_____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.

Salix spp., Populus tremulifolia

Average height of canopy (Do not include a range): 10 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

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

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

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Inyoglen Project (Wasson Cyn Outliers) State CA County Riverside
 USGS Quad Name Lake Elsinore Elevation 495 (meters)
 Creek, River, Wetland, or Lake Name Unnamed creek

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

Survey Coordinates: Start: E 472270 N 3730990 UTM Datum WGS 84 (See instructions)
 Stop: E 472330 N 3730670 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Survey time						# Birds	Sex	UTM E	UTM N
Survey # 1	Date <u>24 May 11</u>									
Observer(s)	Start									
<u>Chet</u>		<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
<u>McGaugh</u>	Stop									
	Total hrs <u>0.5</u>									
Survey # 2	Date <u>2 June 11</u>									
Observer(s)	Start									
<u>Chet</u>		<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
<u>McGaugh</u>	Stop									
	Total hrs <u>0.5</u>									
Survey # 3	Date <u>17 June 11</u>									
Observer(s)	Start									
<u>Chet</u>		<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
<u>McGaugh</u>	Stop									
	Total hrs <u>0.5</u>									
Survey # 4	Date <u>28 June 11</u>									
Observer(s)	Start									
<u>Chet</u>		<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
<u>McGaugh</u>	Stop									
	Total hrs <u>0.5</u>									
Survey # 5	Date <u>14 July 11</u>									
Observer(s)	Start									
<u>Chet</u>		<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
<u>McGaugh</u>	Stop									
	Total hrs <u>0.5</u>									
Overall Site Summary		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals.		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>					
Total Survey Hrs <u>2.5</u>										

Reporting Individual Stephen J. Myers Date Report Completed 10/31/11
 US Fish and Wildlife Service Permit # TE 804203-9 State Wildlife Agency Permit # SC-001951

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

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

Reporting Individual Stephen J. Myers Phone # 951-369-8060 ext 111
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley-Ivyglen Project (Wasson Canyon Outlier) Date Report Completed 10/31/11
Was this site surveyed in a previous year? Yes ☐ No ☒ Unknown ☐
Did you verify that this site name is consistent with that used in previous years? Yes ☐ No ☐ Not Applicable ☒
If site 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 below.
Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below.
Management Authority for Survey Area: Federal ☐ Municipal/County ☐ State ☐ Tribal ☐ Private ☒?
Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: 0.32 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.

Salix spp, Populus fremonti;

Average height of canopy (Do not include a range): 12 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

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

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

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley - Ivyglen Project (Rosetta Outliers) State CA County Riverside
 USGS Quad Name Lake Elsinore Elevation 425 (meters)
 Creek, River, Wetland, or Lake Name _____

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

Survey Coordinates: Start: E 469780 N 3729300 UTM Datum WGS 84 (See instructions)
 Stop: E 469930 N 3729350 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Survey time						# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) <u>Chet McGaugh</u>	Date <u>24 May 11</u> Start Stop Total hrs <u>0.25</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 2 Observer(s) <u>Chet McGaugh</u>	Date <u>24 June 11</u> Start Stop Total hrs <u>0.25</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 3 Observer(s) <u>Chet McGaugh</u>	Date <u>17 June 11</u> Start Stop Total hrs <u>0.25</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 4 Observer(s) <u>Chet McGaugh</u>	Date <u>28 June 11</u> Start Stop Total hrs <u>0.25</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Survey # 5 Observer(s) <u>Chet McGaugh</u>	Date <u>14 July 11</u> Start Stop Total hrs <u>0.25</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs <u>1.25</u>		Total Adult Residents <u>0</u>	Total Pairs <u>0</u>	Total Territories <u>0</u>	Total Nests <u>0</u>	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				

Reporting Individual Stephen J. Myers

Date Report Completed 10/31/11

US Fish and Wildlife Service Permit # TE 804203-9

State Wildlife Agency Permit # 5C-001951

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

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

Reporting Individual Stephen J. Myers Phone # 951-369-8060 ext 111
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley-Ivyglen Project (Rosetta Outliers) Date Report Completed _____

Was this site surveyed in a previous year? Yes _____ No ☒ Unknown _____

Did you verify that this site name is consistent with that used in previous years? Yes _____ No _____ Not Applicable ☒

If site 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 below.

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

Management Authority for Survey Area: Federal _____ Municipal/County _____ State _____ Tribal _____ Private ☒ ?

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

Length of area surveyed: 0.18 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

☒ Native broadleaf plants (entirely or almost entirely, > 90% native)

_____ Mixed native and exotic plants (mostly native, 50 - 90% native)

_____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

_____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.

Salix spp.

Average height of canopy (Do not include a range): 10 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

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

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

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Inglen Project (De Palma RE Outlier) State CA County Riverside
 USGS Quad Name Alberhill Elevation 370 (meters)
 Creek, River, Wetland, or Lake Name Unnamed stream
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 459180 N 373360 UTM Datum WGS84 (See instructions)
 Stop: E 459140 N 3733530 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Survey time						# Birds	Sex	UTM E	UTM N
Survey # 1	Date									
Observer(s)	24 May 11									
Chet McGaugh	Start	0	0	0	N					
	Stop									
	Total hrs 0.5									
Survey # 2	Date									
Observer(s)	6 June 11									
Chet McGaugh	Start	0	0	0	N					
	Stop									
	Total hrs 0.5									
Survey # 3	Date									
Observer(s)	17 June 11									
Chet McGaugh	Start	0	0	0	N					
	Stop									
	Total hrs 0.5									
Survey # 4	Date									
Observer(s)	28 June 11									
Chet McGaugh	Start	0	0	0	N					
	Stop									
	Total hrs 0.5									
Survey # 5	Date									
Observer(s)	14 July 11									
Chet McGaugh	Start	0	0	0	N					
	Stop									
	Total hrs 0.5									
Overall Site Summary		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals.		0	0	0	0					
Total Survey Hrs		2.5								

Reporting Individual Stephen J. Myers Date Report Completed 10/31/11
 US Fish and Wildlife Service Permit # TE 804203-9 State Wildlife Agency Permit # SC-1951
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

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

Reporting Individual Stephen J. Myers Phone # 951-369-8060 ext 111
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley - Ivyglen Project (De Palma Road Outlier) Date Report Completed _____
Was this site surveyed in a previous year? Yes _____ No ☒ Unknown _____
Did you verify that this site name is consistent with that used in previous years? Yes _____ No _____ Not Applicable ☒
If site 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 below.
Did you survey the same general area during each visit to this site this year? Yes ☒ No _____ If no, summarize below.
Management Authority for Survey Area: Federal _____ Municipal/County _____ State _____ Tribal _____ Private ☒
Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: 0.13 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
_____ Mixed native and exotic plants (mostly native, 50 - 90% native)
_____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
_____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.

Salix spp., Baccharis salicifolia, Quercus agrifolia

Average height of canopy (Do not include a range): 8 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

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

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

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley - Ivyglen Project (Indian Truck Trail Outlier) State CA County Riverside
 USGS Quad Name Alberhill Elevation 350 (meters)
 Creek, River, Wetland, or Lake Name _____

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

Survey Coordinates: Start: E 458210 N 3734450 UTM Datum WGS 84 (See instructions)
 Stop: E 458300 N 3734340 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
							# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) <u>Chet McGaugh</u>	Date <u>24 May 11</u> Start	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Stop									
	Total hrs <u>0.2</u>									
Survey # 2 Observer(s) <u>Chet McGaugh</u>	Date <u>6 June 11</u> Start	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Stop									
	Total hrs <u>0.2</u>									
Survey # 3 Observer(s) <u>Chet McGaugh</u>	Date <u>17 June 11</u> Start	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Stop									
	Total hrs <u>0.2</u>									
Survey # 4 Observer(s) <u>Chet McGaugh</u>	Date <u>28 June 11</u> Start	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Stop									
	Total hrs <u>0.2</u>									
Survey # 5 Observer(s) <u>Chet McGaugh</u>	Date <u>14 July 11</u> Start	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Stop									
	Total hrs <u>0.2</u>									
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs <u>1.0</u>		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes ___ No ___ If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>					

Reporting Individual Stephen J. Myers Date Report Completed 16/31/11
 US Fish and Wildlife Service Permit # FE 804203-9 State Wildlife Agency Permit # SC-1957

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

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

Reporting Individual Stephen J. Myers Phone # 951-369-8060 ext 111
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley-Fryglen Project (Indian Truck Trail Outlier) Date Report Completed _____

Was this site surveyed in a previous year? Yes _____ No ☒ Unknown _____

Did you verify that this site name is consistent with that used in previous years? Yes _____ No _____ Not Applicable ☒

If site 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 below.

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

Management Authority for Survey Area: Federal _____ Municipal/County _____ State _____ Tribal _____ Private ☒

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

Length of area surveyed: 0.10 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

☒ Native broadleaf plants (entirely or almost entirely, > 90% native)

_____ Mixed native and exotic plants (mostly native, 50 - 90% native)

_____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

_____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.

Salix spp., Populus fremontii

Average height of canopy (Do not include a range): 10 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

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

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

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley - Ivyglen Project (Old Road Outliers) State CA County Riverside
 USGS Quad Name La Gr Mathews Elevation 335 (meters)
 Creek, River, Wetland, or Lake Name Temescal Wash (Tributary)
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 457880 N 3735120 UTM Datum WGS 84 (See instructions)
 Stop: E 457930 N 3734870 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Survey time						# Birds	Sex	UTM E	UTM N
Survey # 1	Date <u>24 May 11</u>									
Observer(s)	Start				N					
<u>Chet McGaugh</u>	Stop	0	0	0						
	Total hrs <u>0.6</u>									
Survey # 2	Date <u>6 June 11</u>									
Observer(s)	Start				N					
<u>Chet McGaugh</u>	Stop	0	0	0						
	Total hrs <u>0.6</u>									
Survey # 3	Date <u>17 June 11</u>									
Observer(s)	Start				N					
<u>Chet McGaugh</u>	Stop	0	0	0						
	Total hrs <u>0.6</u>									
Survey # 4	Date <u>28 June 11</u>									
Observer(s)	Start				N					
<u>Chet McGaugh</u>	Stop	0	0	0						
	Total hrs <u>0.6</u>									
Survey # 5	Date <u>14 July 11</u>									
Observer(s)	Start				N					
<u>Chet McGaugh</u>	Stop	0	0	0						
	Total hrs <u>0.6</u>									
Overall Site Summary		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals.		0	0	0	0					
Total Survey Hrs <u>3.0</u>										

Reporting Individual Stephen J. Myers Date Report Completed 16/31/11
 US Fish and Wildlife Service Permit # TE 804203-9 State Wildlife Agency Permit # SC-1951
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

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

Reporting Individual Stephen J. Myers Phone # 951-369-8060
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley Truglen Project (Old Road Outliers) Date Report Completed _____

Was this site surveyed in a previous year? Yes _____ No ☒ Unknown _____

Did you verify that this site name is consistent with that used in previous years? Yes _____ No _____ Not Applicable ☒

If site 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 below. _____

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

Management Authority for Survey Area: Federal _____ Municipal/County _____ State _____ Tribal _____ Private _____

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

Length of area surveyed: 0.26 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

☒ Native broadleaf plants (entirely or almost entirely, > 90% native)

_____ Mixed native and exotic plants (mostly native, 50 - 90% native)

_____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

_____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.

Salix spp., Populus fremontii, Quercus agrifolia

Average height of canopy (Do not include a range): 10 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

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

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

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen Project (Yard Outlier) State CA County Riverside
 USGS Quad Name Lake Mathews Elevation 325 (meters)
 Creek, River, Wetland, or Lake Name Unnamed tributary to Temescal Wash
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 457760 N 3735170 UTM Datum WGS 84 (See instructions)
 Stop: E 457690 N 3735110 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Survey time						# Birds	Sex	UTM E	UTM N
Survey # 1	Date <u>24 May 11</u>									
Observer(s)	Start									
<u>Chet McGaugh</u>	Stop	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
	Total hrs <u>0.25</u>									
Survey # 2	Date <u>6 June 11</u>									
Observer(s)	Start									
<u>Chet McGaugh</u>	Stop	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
	Total hrs <u>0.25</u>									
Survey # 3	Date <u>17 June 11</u>									
Observer(s)	Start									
<u>Chet McGaugh</u>	Stop	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
	Total hrs <u>0.25</u>									
Survey # 4	Date <u>28 June 11</u>									
Observer(s)	Start									
<u>Chet McGaugh</u>	Stop	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
	Total hrs <u>0.25</u>									
Survey # 5	Date <u>14 July 11</u>									
Observer(s)	Start									
<u>Chet McGaugh</u>	Stop	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
	Total hrs <u>0.25</u>									
Overall Site Summary		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals.		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>					
Total Survey Hrs <u>1.25</u>										

Reporting Individual Stephen J. Myers Date Report Completed 10/31/11
 US Fish and Wildlife Service Permit # TE 824203-9 State Wildlife Agency Permit # SC-1951
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

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

Reporting Individual Stephen J. Myers Phone # 951-369-8060 ext 111
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley-Ivyglen Project (Yard Outlier) Date Report Completed _____

Was this site surveyed in a previous year? Yes _____ No ☒ Unknown _____

Did you verify that this site name is consistent with that used in previous years? Yes _____ No _____ Not Applicable ☒

If site 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 below.

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

Management Authority for Survey Area: Federal _____ Municipal/County _____ State _____ Tribal _____ Private _____

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

Length of area surveyed: 0.09 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

_____ Native broadleaf plants (entirely or almost entirely, > 90% native)

☒ Mixed native and exotic plants (mostly native, 50 - 90% native)

_____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

_____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.

Salix spp., Eucalyptus sp.

Average height of canopy (Do not include a range): 15 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

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

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

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley - Ivy Glen Project (El Hermano Outlier) State CA County Riverside
 USGS Quad Name Lake Mathews Elevation 315 (meters)
 Creek, River, Wetland, or Lake Name Unnamed tributary to Temescal Wash
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 457170 N 3735670 UTM Datum WGS84 (See instructions)
 Stop: E 457610 N 3735320 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey # Observer(s) (Full Name)	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]. If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
							# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) <u>Chet McGaugh</u>	Date <u>24 May 11</u> Start	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Stop									
	Total hrs <u>1</u>									
Survey # 2 Observer(s) <u>Chet McGaugh</u>	Date <u>6 June 11</u> Start	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Stop									
	Total hrs <u>1</u>									
Survey # 3 Observer(s) <u>Chet McGaugh</u>	Date <u>17 June 11</u> Start	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Stop									
	Total hrs <u>1</u>									
Survey # 4 Observer(s) <u>Chet McGaugh</u>	Date <u>28 June 11</u> Start	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Stop									
	Total hrs <u>1</u>									
Survey # 5 Observer(s) <u>Chet McGaugh</u>	Date <u>14 June 11</u> Start	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>		# Birds	Sex	UTM E	UTM N
	Stop									
	Total hrs <u>1</u>									
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals.		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>					
Total Survey Hrs <u>5.0</u>										

Reporting Individual Stephen J. Myers Date Report Completed 10/31/11
 US Fish and Wildlife Service Permit # TE 804203-9 State Wildlife Agency Permit # SC-1951
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

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

Reporting Individual Stephen J. Myers Phone # 957-369-8060 ext 111
 Affiliation AMEC E-mail stephen.j.myers@amec.com
 Site Name Valley-Ivyglan Project (El Hermano Outliers) Date Report Completed _____

Was this site surveyed in a previous year? Yes _____ No ☒ Unknown _____
 Did you verify that this site name is consistent with that used in previous years? Yes _____ No _____ Not Applicable ☒

If site 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 below.

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

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

Length of area surveyed: 0.60 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

_____ Native broadleaf plants (entirely or almost entirely, > 90% native)

☒ Mixed native and exotic plants (mostly native, 50 - 90% native)

_____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

_____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.

Salix spp., Tamarix ramosissima, Populus fremontii

Average height of canopy (Do not include a range): 8 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

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

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

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley - Ivyglen Project (Temescal Wash Outlier) State CA County Riverside
 USGS Quad Name Lake Mathews Elevation 305 (meters)
 Creek, River, Wetland, or Lake Name Temescal Wash
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 456900 N 3735990 UTM Datum NAD 84 (See instructions)
 Stop: E 456980 N 3735950 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Survey time						# Birds	Sex	UTM E	UTM N
Survey # 1	Date <u>24 May 11</u>									
Observer(s)	Start									
<u>Chet McGaugh</u>	Stop	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
	Total hrs <u>0.25</u>									
Survey # 2	Date <u>6 June 11</u>									
Observer(s)	Start									
<u>Chet McGaugh</u>	Stop	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
	Total hrs <u>0.25</u>									
Survey # 3	Date <u>17 June 11</u>									
Observer(s)	Start									
<u>Chet McGaugh</u>	Stop	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
	Total hrs <u>0.25</u>									
Survey # 4	Date <u>28 June 11</u>									
Observer(s)	Start									
<u>Chet McGaugh</u>	Stop	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
	Total hrs <u>0.25</u>									
Survey # 5	Date <u>14 July 11</u>									
Observer(s)	Start									
<u>Chet McGaugh</u>	Stop	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>					
	Total hrs <u>0.25</u>									
Overall Site Summary		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals.		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>					
Total Survey Hrs <u>1.25</u>										

Reporting Individual Stephen J. Myers Date Report Completed 10/31/11
 US Fish and Wildlife Service Permit # TE 804203-9 State Wildlife Agency Permit # SC-1951
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

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

Reporting Individual Stephen J. Myers Phone # 951-369-8060 ext 111
Affiliation AMEC E-mail stephen.j.myers@amcc.com
Site Name Valley-Ivyglen Project (Temescal Wash Outlier) Date Report Completed _____

Was this site surveyed in a previous year? Yes ___ No ☒ Unknown ___

Did you verify that this site name is consistent with that used in previous years? Yes ___ No ___ Not Applicable ☒

If site 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 below.

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

Management Authority for Survey Area: Federal ___ Municipal/County ___ State ___ Tribal ___ Private ___

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

Length of area surveyed: 0.09 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

☒ Native broadleaf plants (entirely or almost entirely, > 90% native)

___ Mixed native and exotic plants (mostly native, 50 - 90% native)

___ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)

___ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.

Salix spp.

Average height of canopy (Do not include a range): 12 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

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

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

Attach additional sheets if necessary

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley - Ivy Glen Project (Basin outlier) State CA County Riverside
 USGS Quad Name Lake Mathews Elevation 325 (meters)
 Creek, River, Wetland, or Lake Name _____

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

Survey Coordinates: Start: E 456060 N 3735720 UTM Datum NAD83 (See instructions)
 Stop: E 456150 N 3735660 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Survey time						# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) Chet McGaugh	Date 24 May 11 Start 0620 Stop 1045 Total hrs 4.5	0	0	0	N	Start and stop times are for entire survey at this site is at bottom of form.				
Survey # 2 Observer(s) Chet McGaugh	Date 6 June 11 Start 0615 Stop 1010 Total hrs 4	0	0	0	N					
Survey # 3 Observer(s) Chet McGaugh	Date 17 June 11 Start 0630 Stop 1130 Total hrs 5	0	0	0	N					
Survey # 4 Observer(s) Chet McGaugh	Date 28 June 11 Start 0645 Stop 1115 Total hrs 4.5	0	0	0	N					
Survey # 5 Observer(s) Chet McGaugh	Date 14 July 11 Start 0625 Stop 1000 Total hrs 3.5	0	0	0	N					
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs <u>1.67</u>		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <u>NA</u> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
		0	0	0	0					

Reporting Individual Stephen J. Myers Date Report Completed 10/31/11
 US Fish and Wildlife Service Permit # TE 804203-9 State Wildlife Agency Permit # SC-1951
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

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

Reporting Individual Stephen J. Myers Phone # 951-364-8060 ext 111
Affiliation AMEC E-mail stephen.j.myers@amec.com
Site Name Valley Inyogen Project (Basin Outlier) Date Report Completed _____
Was this site surveyed in a previous year? Yes ☒ No _____ Unknown _____
Did you verify that this site name is consistent with that used in previous years? Yes _____ No ☒ Not Applicable _____
If site 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 below.
Did you survey the same general area during each visit to this site this year? Yes ☒ No _____ If no, summarize below.
Management Authority for Survey Area: Federal _____ Municipal/County _____ State _____ Tribal _____ Private ☒ ?
Name of Management Entity or Owner (e.g., Tonto National Forest) _____

Length of area surveyed: 0.11 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- _____ Native broadleaf plants (entirely or almost entirely, > 90% native)
☒ Mixed native and exotic plants (mostly native, 50 - 90% native)
_____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
_____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names.

Salix spp., Baccharis salicifolia, Tamarix ramosissima

Average height of canopy (Do not include a range): 5 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

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

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

Attach additional sheets if necessary

Southern California Edison
Valley- Ivyglen Subtransmission Line Project
2011 Focused Surveys for Least Bell's Vireo
Southwestern willow flycatcher and Western Yellow-Billed Cuckoo
AMEC Project No. 1055400435
November 2011



APPENDIX C

WESTERN YELLOW-BILLED CUCKOO SURVEY FORMS

Southern California Edison
Valley- Ivyglen Subtransmission Line Project
2011 Focused Surveys for Least Bell's Vireo
Southwestern willow flycatcher and Western Yellow-Billed Cuckoo
AMEC Project No. 1055400435
November 2011



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Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <i>Baker Street</i>	Transect #:	Survey Period: 1	Visit #: 1	Date: 06202011
Drainage:	Habitat:	GPS #:	Transect Start Time:	Transect Stop Time:	06450
UTM Start E:			Start GPS acc. (m):	Zone:	
UTM Start N:					
UTM Stop E:			Stop GPS acc. (m):	NAD:	
UTM Stop N:				Observer: <i>Chet McGaragh</i>	

Site Owner:	State: <i>CA</i>	County: <i>Riverside</i>	Data Entry:												
Wind: 0	Cloud Cover: 0	Precip:	Noise:	Temp (F°) start/stop: 70/85	Data verification:										

Broadcast -Point Start Time	GPS acc.	UTM	YBCU Detect. #	Time of Detect.	Det. Type A.V.B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0645	E	467459 N	3728046								
0652	E	467403 N	3728107								
0658	E	467435 N	3728255								
0705	E	467476 N	3728307								
0711	E	467429 N	3728362								
0717	E	467364 N	3728402								
0724	E	467307 N	3728468								
0732	E	467255 N	3728545								
0739	E	467222 N	3728625								
0748	E	467550 N	3728052								
0756	E	467597 N	3728120								
0803	E	467558 N	3728170								
0812	E	467537 N	3728227								
0820	E	467559	3728304								
0827	E	467555	3728382								

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box)

Site Code:	Site Name:	Baker Street		Transect #:	Survey Period:	Visit #:	Date:	2	0	2	0	1	1
Drainage:	Habitat:				GPS #:	Transect Start Time:							
UTM Start E:					Start GPS acc. (m):	Transect Stop Time:							
UTM Start N:					Zone:								
UTM Stop E:					Stop GPS acc. (m):	NAD:							
UTM Stop N:					Observer: Chet Mc Gough								

Site Owner:	State:	County:	Data Entry:						
			Data verification:						

Wind:	Cloud Cover:	Precip:	Noise:	Temp (F ⁰) start/stop:
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[illegible]

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box)

Site Code:	Site Name: <i>Baker Street</i>		Transect #:	Survey Period:	Visit #:	Date:			
Drainage:	Habitat:		GPS #:	Transect Start Time:					
UTM Start E:				Start GPS acc. (m):	Transect Stop Time:				
UTM Start N:				Zone:					
UTM Stop E:				Stop GPS acc. (m):	NAD:				
UTM Stop N:				Observer: <i>Chet Mc Gough</i>					

Site Owner:	State: CA	County: Riverside							
			Data Entry:						
			Data verification:						

Wind: 0	Cloud Cover: 00-0	Precip:	Noise:	Temp (F) ⁰ start/stop: 63/74
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[illegible]

Yellow-billed Cuckoo Survey Data Form (2009)

☐ Non-Survey Detection (check box)

Site Code:	Site Name: Baker Street		Transect #:	Survey Period:	Visit #: 1	Date:	07	1	2	2	0	1	1
Drainage:	Habitat:			GPS #:	Transect Start Time:								
UTM Start E:					Start GPS acc. (m):	Transect Stop Time:							
UTM Start N:					Zone:								
UTM Stop E:					Stop GPS acc. (m):	NAD:							
UTM Stop N					Observer: Chet Mc Gough								

Site Owner:	State:	County:	Data Entry:						
			Data verification:						

Wind:	Cloud Cover:	Precip:	Noise:	Temp (F ^o) start/stop:
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Broadcast -Point Start	Time	GPS acc.
Coordinates listed on Survey Period 1 forms.		
	E	N
082Z	E	N
0830	E	N
0837	E	N
0845	E	N
0852	E	N
0900	E	N
0907	E	N
0914	E	N
0920	E	N
0928	E	N
0935	E	N
0948	E	N
	E	N
	E	N
	E	N

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box)

Site Code:	Site Name:	Bakey Street			Transect #:	Survey Period:	3	Visit #:	1	Date:	0	7	2	7	2	0	1	1			
Drainage:		Habitat:			GPS #:		Transect Start Time:														
UTM Start E:						Start GPS acc. (m):		Transect Stop Time:		1									0	0	0
UTM Start N:						Zone:															
UTM Stop E:						Stop GPS acc. (m):		NAD:													
UTM Stop N						Observer: Chet Mc Gough															

Site Owner:	State: CA	County: Riverside								
			Data Entry:							
			Data verification:							

Wind: \mathcal{O}	Cloud Cover: \mathcal{O}	Precip:	Noise:	Temp (F^0) start/stop: 65/80
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[illegible]

Yellow-billed Cuckoo Survey Data Form (2009)

☐ Non-Survey Detection (check box)

Site Code:	Site Name: <i>Baker Street</i>	Transsect #:	Survey Period: <i>3</i>	Visit #: <i>1</i>	Date: <i>0727</i>	<i>2011</i>
Drainage:	Habitat:	GPS #:	Transsect Start Time:			
UTM Start E:			Start GPS acc. (m):	Transsect Stop Time:		
UTM Start N:			Zone:			
UTM Stop E:			Stop GPS acc. (m):	NAD:		
UTM Stop N:			Observer: <i>Chet Mc Gough</i>			

Site Owner:	State:	County:	Data Entry:					
			Data verification:					

Wind:	Cloud Cover:	Precip:	Noise:	Temp (F°) start/stop:
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[illegible]

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box)

Site Code:	Site Name: Baker Street	Transect #:	Survey Period:	4	Visit #:	Date:	0	8	1	0	2	0	1	1
Drainage:	Habitat:		GPS #:		Transect Start Time:		0	7	2	5				
UTM Start E:					Start GPS acc. (m):		1	0	4	0				
UTM Start N:					Zone:									
UTM Stop E:					Stop GPS acc. (m):									
UTM Stop N:					NAD:									
					Observer:		John F. Green							

[illegible]

Wind: 0-1	Cloud Cover: 100-0	Precip:	Noise:	Temp (F) start/stop: 61/80
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[illegible]

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box)

Site Code:	Site Name: <i>Baker Street</i>	Transect #:	Survey Period: <i>4</i>	Visit #: <i>1</i>	Date:				
Drainage:	Habitat:		GPS #:	Transect Start Time:					
UTM Start E:			Start GPS acc. (m):	Transect Stop Time:					
UTM Start N:				Zone:					
UTM Stop E:			Stop GPS acc. (m):	NAD:					
UTM Stop N:				Observer: <i>John F. Green</i>					

Site Owner:	State:	County:	Data Entry:						
			Data verification:						

Wind:	Cloud Cover:	Precip:	Noise:	Temp (F^0) start/stop:
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[illegible]

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <i>Nichols Road</i>	Transect #:	Survey Period:	Visit #:	Date:
Drainage:	Habitat:	GPS #:	Transcript Start Time:		
UTM Start E:		Start GPS acc. (m):	Transcript Stop Time:		
UTM Start N:		Stop GPS acc. (m):	Zone:		
UTM Stop E:		NAD:			
UTM Stop N:		Observer: <i>Stephen J. Myers</i>			

Site Owner:	State: <i>CA</i>	County: <i>Riverside</i>	Data Entry:				
			Data verification:				

Wind: <i>0</i>	Cloud Cover: <i>100-20</i>	Precip:	Noise:	Temp (F°) start/stop: <i>59/76</i>
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Broadcast -Point Start Time	GPS acc.	UTM										YBCU Detect. #	Time of Detect.	Det. Type A,V,B	Compass Bearing °	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0620		E466514N	3729681																	
0631		E466574N	3729620																	
0644		E466626N	3729548																	
0659		E4666685N	3729471																	
0712		E466743N	3729381																	
0728		E466796N	3729314																	
0736		E466851N	3729238																	
0748		E466905N	3729152																	
0757		E466961N	3729054																	
0824		E466985N	3729203																	
0836		E467047N	3729127																	
0855		E467138N	3729073																	
0920		E467230N	3729029																	
0934		E467288	3728967																	
0948		E467359	3728906																	

10 12 467427 3728829

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Nichols Road</u>	Transect #:	Survey Period: <u>2</u>	Visit #: <u>1</u>	Date: <u>07/11/2011</u>
Drainage:	Habitat:	GPS #:	Transect Start Time:	<u>0610</u>	
UTM Start E:		Start GPS acc. (m):	Transect Stop Time:	<u>0950</u>	
UTM Start N:		Stop GPS acc. (m):	Zone:		
UTM Stop E:		NAD:			
UTM Stop N:			Observer: <u>John F. Green</u>		

Site Owner:	State: <u>CA</u>	County: <u>Riverside</u>	Data Entry:				
			Data verification:				

Wind: <u>0-2</u>	Cloud Cover: <u>100-0</u>	Precip:	Noise:	Temp (F°) start/stop: <u>64/73</u>
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Broadcast -Point Start Time	GPS acc.	Coordinates listed on Survey Period 1 form.										YBCU Detect. #	Time of Detect.	Det. Type A,V,B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
		UTM																		
0610	E											N								
0621	E											N								
0635	E											N								
0647	E											N								
0700	E											N								
0714	E											N								
0727	E											N								
0738	E											N								
0750	E											N								
0817	E											N								
0826	E											N								
0840	E											N								
0853	E											N								
0912	E																			
0925	E																			

0939

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Nichols Road</u>	Transect #:	Survey Period: <u>3</u>	Visit #: <u>1</u>	Date: <u>07262011</u>
Drainage:	Habitat:	GPS #:	Transect Start Time:	<u>0700</u>	
UTM Start E:		Start GPS acc. (m):	Transect Stop Time:	<u>1020</u>	
UTM Start N:		Stop GPS acc. (m):	Zone:		
UTM Stop E:		NAD:			
UTM Stop N:		Observer: <u>Stephen J. Myers</u>			

Site Owner:	State: <u>CA</u>	County: <u>Riverside</u>	Data Entry:						
			Data verification:						

Wind: <u>0</u>	Cloud Cover: <u>0</u>	Precip: <u>0</u>	Noise: <u>0</u>	Temp (F°) start/stop: <u>66/88</u>
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Broadcast -Point Start Time	GPS acc.	Coordinates listed on Period 1 form.										YBCU Detect. #	Time of Detect.	Det. Type A,V,B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0700		E																		
0714		E																		
0725		E																		
0751		E																		
0810		E																		
0819		E																		
0832		E																		
0844		E																		
0857		E																		
0918		E																		
0929		E																		
0940		E																		
0949		E																		
0959		E																		
1009		E																		

1020

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <u>Nichols Road</u>	Transect #:	Survey Period: <u>4</u>	Visit #:	Date:	0	8	1	0	2	0	1	1
Drainage:	Habitat:	GPS #:	Transect Start Time:	0	6	5	0						
UTM Start E:		Start GPS acc. (m):	Transect Stop Time:	0	9	4	5						
UTM Start N:		Zone:											
UTM Stop E:		Stop GPS acc. (m):	NAD:										
UTM Stop N:		Observer: <u>Chet McGough</u>											

Site Owner:	State: <u>CA</u>	County: <u>Riverside</u>	Data Entry:						
			Data verification:						

Wind: <u>0</u>	Cloud Cover: <u>100 - 0</u>	Precip: <u>0</u>	Noise: <u>61%</u>	Temp (F°) start/stop: <u>61/76</u>
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Broadcast -Point Start Time	GPS acc.	Coordinates listed on Survey Period 1 form.										YBCU Detect. #	Time of Detect.	Det. Type A, V, B	Compass Bearing	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0650		E																		
0704		E																		
0720		E																		
0738		E																		
0751		E																		
0808		E																		
0819		E																		
0832		E																		
0844		E																		
0903		E																		
0917		E																		
0928		E																		
0936		E																		
0942		E																		
0950		E																		

0958

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box) ☐

Site Code:	Site Name: <i>Lake Street</i>	Transect #:	Survey Period:	Visit #:	Date:
Drainage:	Habitat:	GPS #:	Transect Start Time:	6	5
UTM Start E:		Start GPS acc. (m):	Transect Stop Time:	1	0
UTM Start N:		Zone:		3	0
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N:		Observer: <i>Chet McGough</i>			

Site Owner:	State: <i>CA</i>	County: <i>Riverside</i>	Data Entry:				
			Data verification:				

Wind: <i>0</i>	Cloud Cover: <i>0</i>	Precip:	Noise:	Temp (F°) start/stop: <i>64/89</i>
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Broadcast -Point Start Time	GPS acc.	UTM										YBCU Detect. #	Time of Detect.	Det. Type. A,V,B	Compass Bearing (°)	Est. Dist (m)	Est. Acc.	Vocal. Code	Breed. Code	Note #
0650		E	4	6	3	4	6	8	N	3	7	3	2	1	6	6				
0713		E	4	6	3	3	8	2	N	3	7	3	2	1	7	8				
0724		E	4	6	3	3	2	2	N	3	7	3	2	1	7	5				
0740		E	4	6	3	2	2	8	N	3	7	3	2	1	8	8				
0755		E	4	6	3	1	5	6	N	3	7	3	2	2	2	4				
0809		E	4	6	3	0	7	9	N	3	7	3	2	2	3	1				
0823		E	4	6	3	0	7	N	3	7	3	2	2	4	6					
0846		E	4	6	2	9	4	6	N	3	7	3	2	2	8	2				
0856		E	4	6	2	8	7	7	N	3	7	3	2	2	8	9				
0910		E	4	6	2	8	0	8	N	3	7	3	2	3	1	4				
0923		E	4	6	2	9	3	4	N	3	7	3	2	2	0	1				
0940		E	4	6	3	0	1	0	N	3	7	3	2	1	6	9				
1000		E	4	6	3	0	9	7	N	3	7	3	2	1	2	2				
1014		E	4	6	3	1	7	5		3	7	3	2	0	8	6				
1023		E	4	6	3	2	8	1		3	7	3	2	0	8	2				

Yellow-billed Cuckoo Survey Data Form (2009)

☐ Non-Survey Detection (check box)

Site Code:	Site Name: <i>Lake Street</i>	Transect #:	Survey Period: 2	Visit #: 1	Date: 07/12/2011
Drainage:	Habitat:	GPS #:	Transect Start Time:		
UTM Start E:		Start GPS acc. (m):	Transect Stop Time:	1020	
UTM Start N:		Zone:			
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N:		Observer: <i>Stephen J. Myers</i>			

Site Owner:	State: CA	County: Riverside	Data Entry:					
			Data verification:					

Wind: 6-2	Cloud Cover: 100-0	Precip:	Noise:	Temp (F) start/stop: 47/6
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Broadcast -Point Start Time	GPS acc.
0635	E
0650	E
0714	E
0729	E
0745	E
0758	E
0814	E
0829	E
0842	E
0859	E
0915	E
0931	E
0948	E
1005	E
1016	E

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box)

Site Code:	Site Name: <i>Lake Street</i>	Transect #:	Survey Period: 3	Visit #: 1	Date: 0726	2011
Drainage:	Habitat:		GPS #:	Transect Start Time:	0625	
UTM Start E:			Start GPS acc. (m):	Transect Stop Time:	0930	
UTM Start N:				Zone:		
UTM Stop E:			Stop GPS acc. (m):	NAD:		
UTM Stop N:				Observer: <i>John F. Green</i>		

Site Owner:	State: CA	County: Riverside								
			Data Entry:							
			Data verification:							

Wind: 0	Cloud Cover: 0	Precip:	Noise:	Temp (F)	start/stop: 9/32
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Broadcast -Point Start Time	GPS acc.
0625	E
0637	E
0649	E
0704	E
0717	E
0730	E
0743	E
0800	E
0812	E
0825	E
0837	E
0850	E
0902	E
0915	E
0926	E

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box)

Site Code:	Site Name: <i>Lake Street</i>	Transect #:	Survey Period: <i>4</i>	Visit #: <i>1</i>	Date: <i>0809</i>
Drainage:	Habitat:	GPS #:	Transect Start Time:		<i>0700</i>
UTM Start E:		Start GPS acc. (m):	Transect Stop Time:		<i>1020</i>
UTM Start N:			Zone:		
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N:			Observer: <i>Chet McGaugh</i>		

Site Owner:	State: CA	County: Riverside	Data Entry:					
			Data verification:					

Wind: \mathcal{O}	Cloud Cover: $b\mathcal{O} \sim \mathcal{O}$	Precip:	Noise:	Temp (F°)	start/stop/578

Broadcast -Point Start Time	GPS acc.
0700	E
0713	E
0726	E
0740	E
0755	E
0809	E
0822	E
0835	E
0849	E
0901	E
0914	E
0927	E
0941	E
0959	E
1014	E

[illegible]

Yellow-billed Cuckoo Survey Data Form (2009)

Non-Survey Detection (check box)

1

Site Code:	Site Name: <i>Hosettler Road</i>	Transect #:	Survey Period: <i>2</i>	Visit #: <i>1</i>	Date: <i>07/11/2011</i>
Drainage:	Habitat:	GPS #:	Transect Start Time:	<i>0720</i>	
UTM Start E:		Start GPS acc. (m):	Transect Stop Time:	<i>1030</i>	
UTM Start N:			Zone:		
UTM Stop E:		Stop GPS acc. (m):	NAD:		
UTM Stop N:			Observer: <i>Stephen J. Myers</i>		

Observer: Stephen J. Myers

Site Owner:	State: CA	County: Riverside	Data Entry:						
			Data verification:						

Wind: \mathcal{O}	Cloud Cover: \mathcal{O}	Precip:	Noise:	Temp (F^0) start/stop: 64 77
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Broadcast -Point Start Time	GPS acc.
0720	E
0734	E
0749	E
0803	E
0817	E
0830	E
0843	E
0858	E
0912	E
0924	E
0937	E
0949	E
1005	E
1021	E
	E

Yellow-billed Cuckoo Survey Data Form (2009)

☐ Non-Survey Detection (check box)

Site Code:	Site Name: <i>Hostetler Road</i>	Transect #:	Survey Period:	Visit #:	Date:	0	7	2	5	2	0	1	1
Drainage:	Habitat:	GPS #:	Transect Start Time:										
UTM Start E:			Start GPS acc. (m):	Transect Stop Time:	0	9	3	0					
UTM Start N:			Zone:										
UTM Stop E:			Stop GPS acc. (m):	NAD:									
UTM Stop N:			Observer: <i>Chet Mc Gough</i>										

Site Owner:	State: CA	County: Riverside							
			Data Entry:						
			Data verification:						

Wind: \mathcal{O}	Cloud Cover: \mathcal{O}	Precip:	Noise:	Temp (F^0) start/stop: 69/82
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Broadcast -Point Start	Time	GPS acc.
0625	E	N
0639	E	N
0654	E	N
0708	E	N
0721	E	N
0738	E	N
0751	E	N
0805	E	N
0817	E	N
0830	E	N
0843	E	N
0856	E	N
0910	E	N
0921	E	
	E	

Yellow-billed Cuckoo Survey Data Form (2009)

☐ Non-Survey Detection (check box)

Site Code:	Site Name: <i>Hostettler Road</i>	Transect #:	Survey Period: <i>4</i>	Visit #: <i>1</i>	Date: <i>080808</i>
Drainage:	Habitat:	GPS #:	Transect Start Time:	<i>06005</i>	
UTM Start E:			Start GPS acc. (m):	Transect Stop Time:	<i>0940</i>
UTM Start N:			Zone:		
UTM Stop E:			Stop GPS acc. (m):	NAD:	
UTM Stop N:			Observer: <i>Chet McLaugh</i>		

[illegible]

Wind: \mathcal{O}	Cloud Cover: \mathcal{O}	Precip:	Noise:	Temp (F^0) start/stop: 62/82
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[illegible]

Southern California Edison
Valley- Ivyglen Subtransmission Line Project
2011 Focused Surveys for Least Bell's Vireo
Southwestern willow flycatcher and Western Yellow-Billed Cuckoo
AMEC Project No. 1055400435
November 2011



APPENDIX D

MAPS OF SURVEY AREAS AND SURVEY RESULTS

Southern California Edison
Valley- Ivyglen Subtransmission Line Project
2011 Focused Surveys for Least Bell's Vireo
Southwestern willow flycatcher and Western Yellow-Billed Cuckoo
AMEC Project No. 1055400435
November 2011



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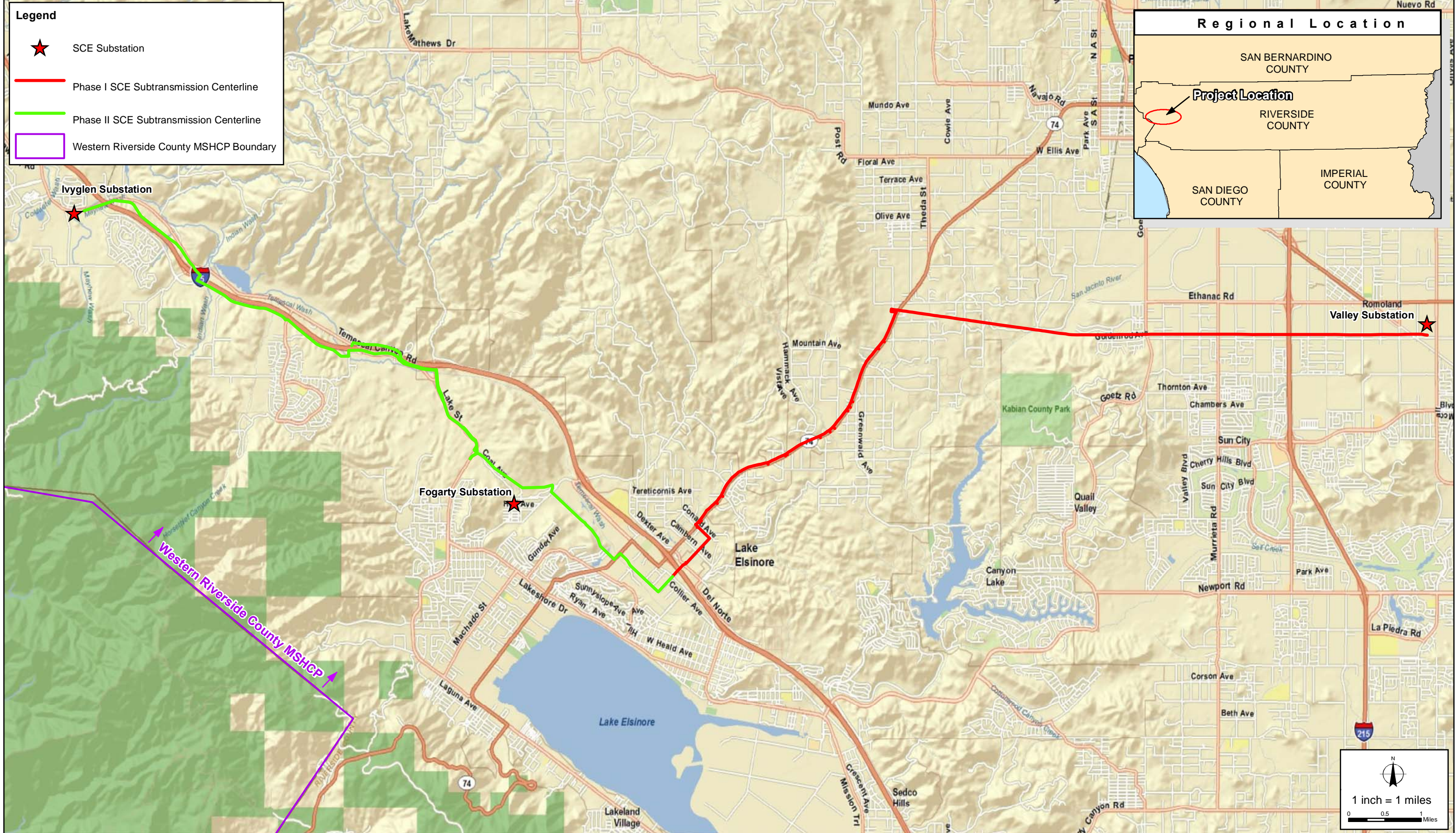
Legend

SCE Substation

Phase I SCE Subtransmission Centerline

Phase II SCE Subtransmission Centerline

Western Riverside County MSHCP Boundary



Path: W:\sd06\Biology\SCE 06\ivy_glen\mxd\2011\PhaseII\project_overview_lbvi.mxd

Project Overview
 2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys
 Valley-Ivyglen Subtransmission Line Project
 Riverside County, California

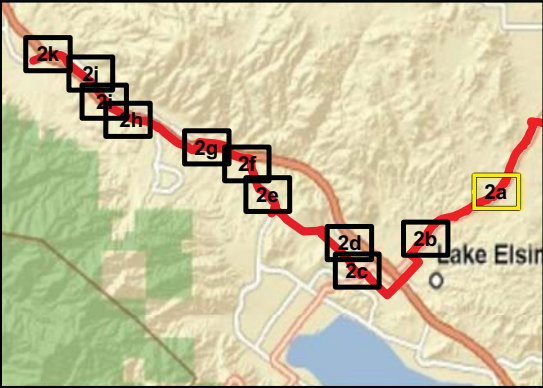




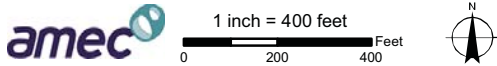
Legend

- ★ Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Map Page Indicator
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)



2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

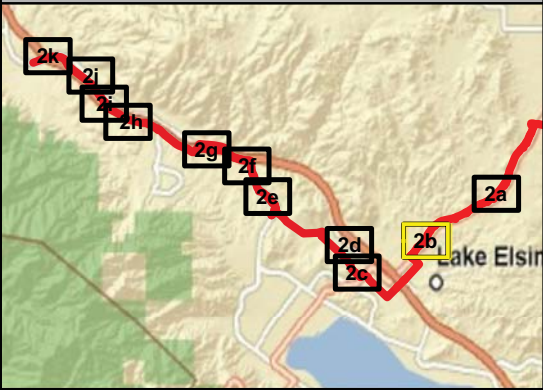
Map 2a



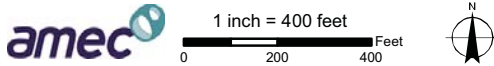
Legend

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Locator Map



Map Notes
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Survey Area - AMEC (2011)
Sightings - AMEC (2011)



2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

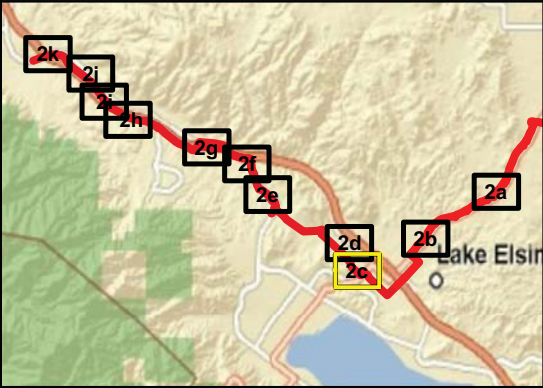
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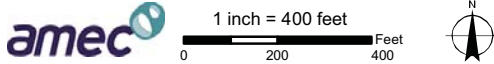
Legend

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Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)



2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

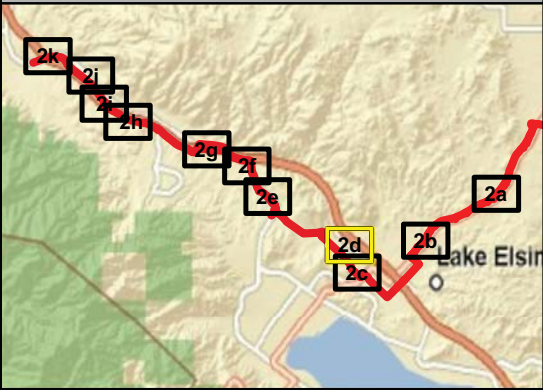
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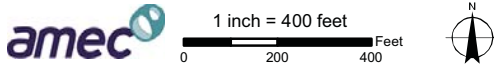
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- ★ Least Bell's Vireo Occurrence
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- - - Map Page Indicator
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Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)



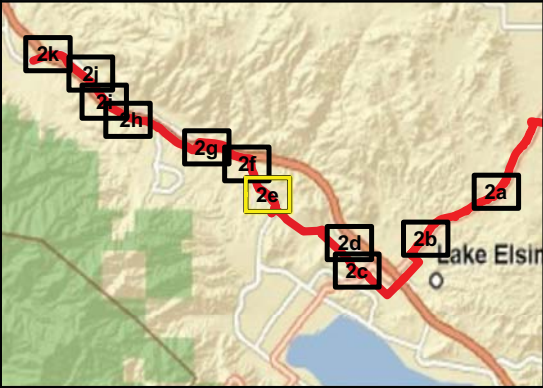
2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings



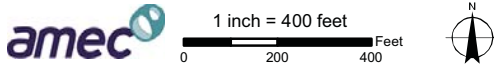
Legend

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Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)



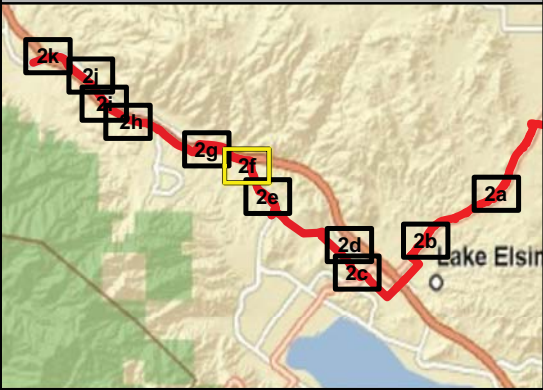
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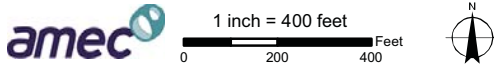
Legend

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Locator Map



Map Notes
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Survey Area - AMEC (2011)
Sightings - AMEC (2011)



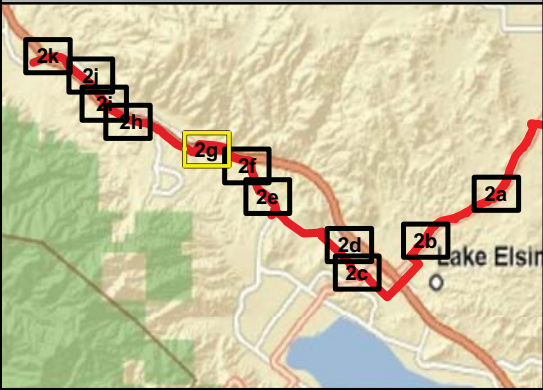
2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings



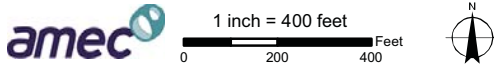
Legend

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Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)



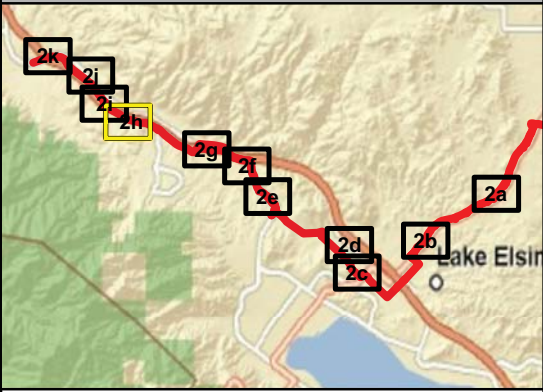
2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings



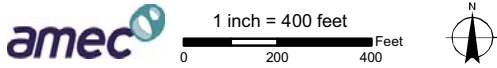
Legend

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Locator Map



Map Notes
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Survey Area - AMEC (2011)
Sightings - AMEC (2011)



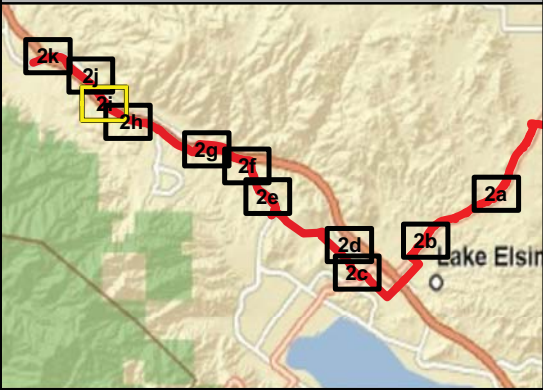
2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings



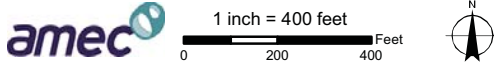
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- ★ Least Bell's Vireo Occurrence
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Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)



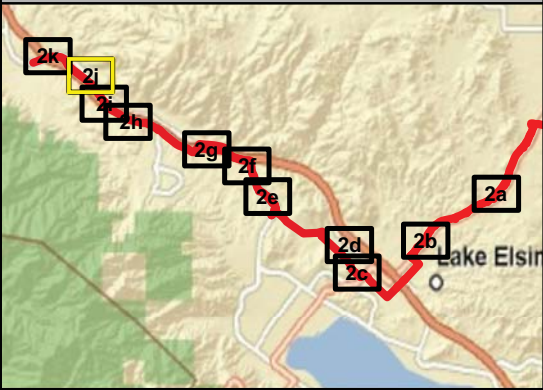
2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings



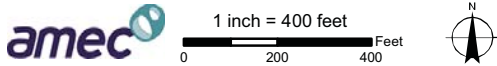
Legend

- ★ Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Map Page Indicator
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

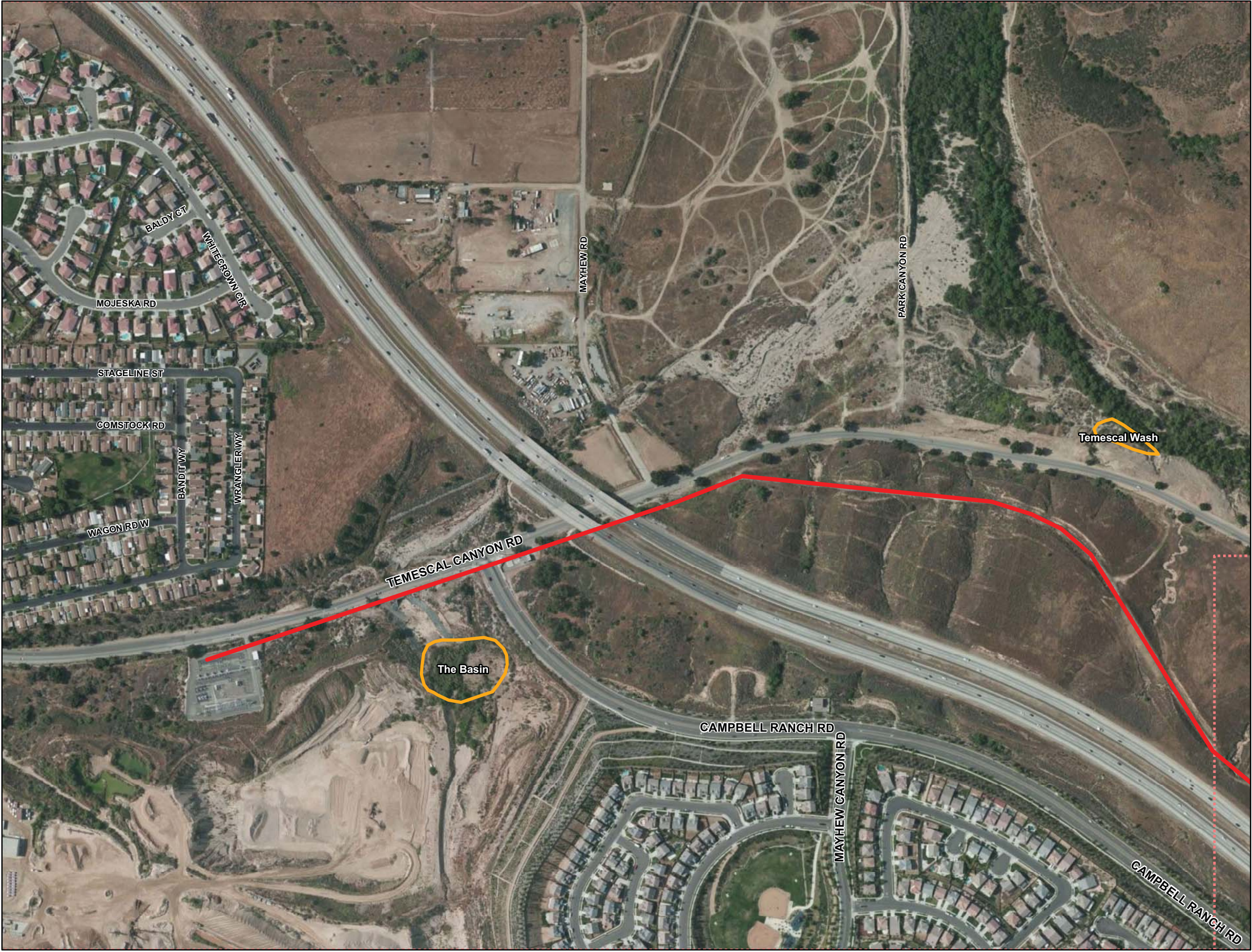
Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)



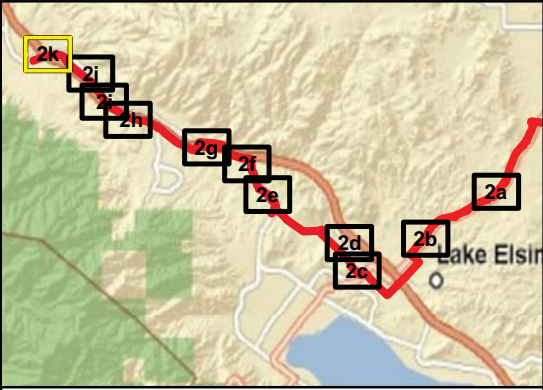
2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings



Legend

- ★ Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Map Page Indicator
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

Locator Map



Map Notes
Aerial Image - BING
Survey Area - AMEC (2011)
Sightings - AMEC (2011)

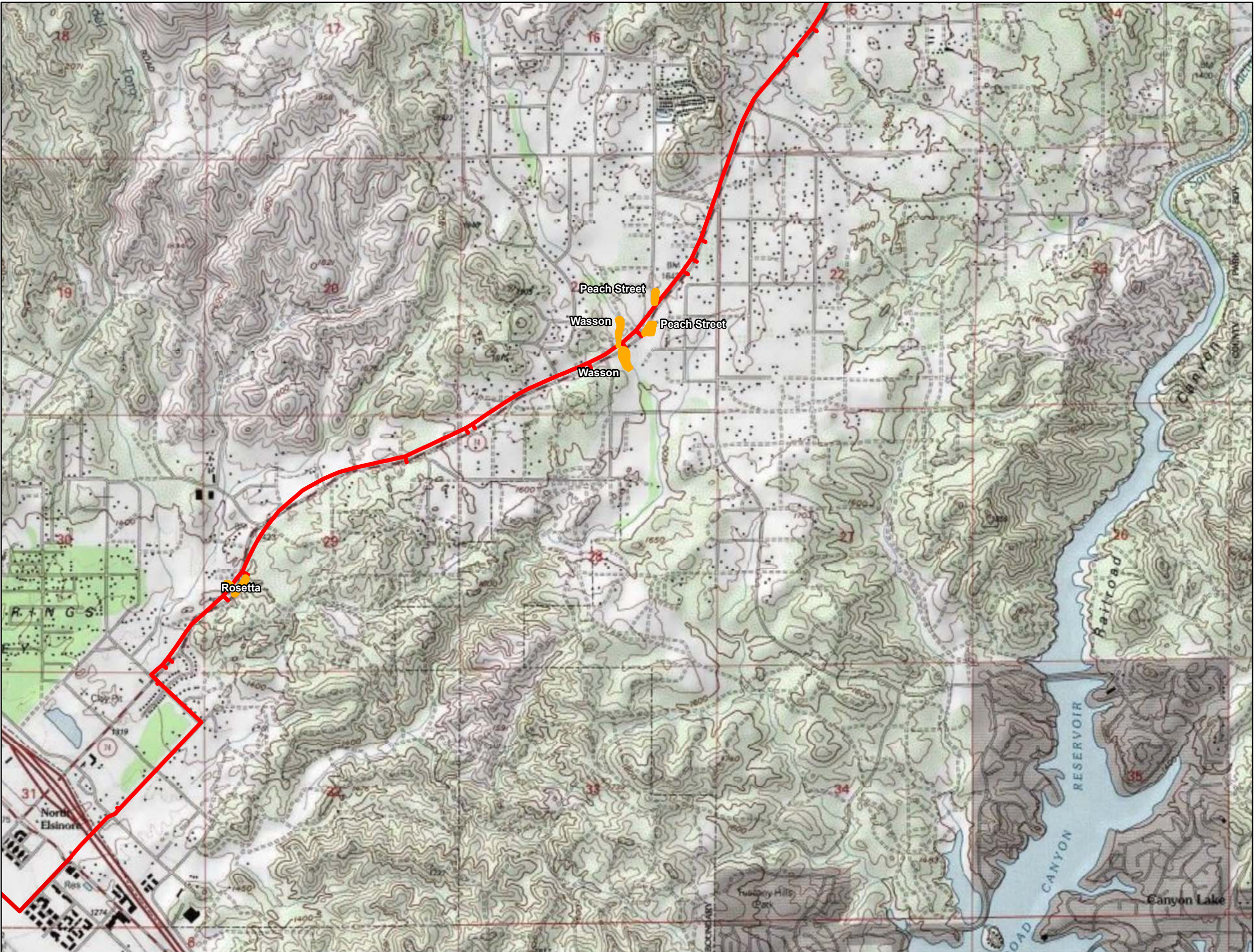


1 inch = 400 feet
0 200 400 Feet





2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings


Map 2k




Legend

 Least Bell's Vireo Occurrence

 Subtransmission Centerline

 Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area

 Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area


Locator Map

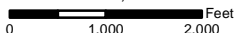
Map Notes


USGS Topo - Lake Elsinore (1977)

Survey Area - AMEC (2011)

Sightings - AMEC (2011)

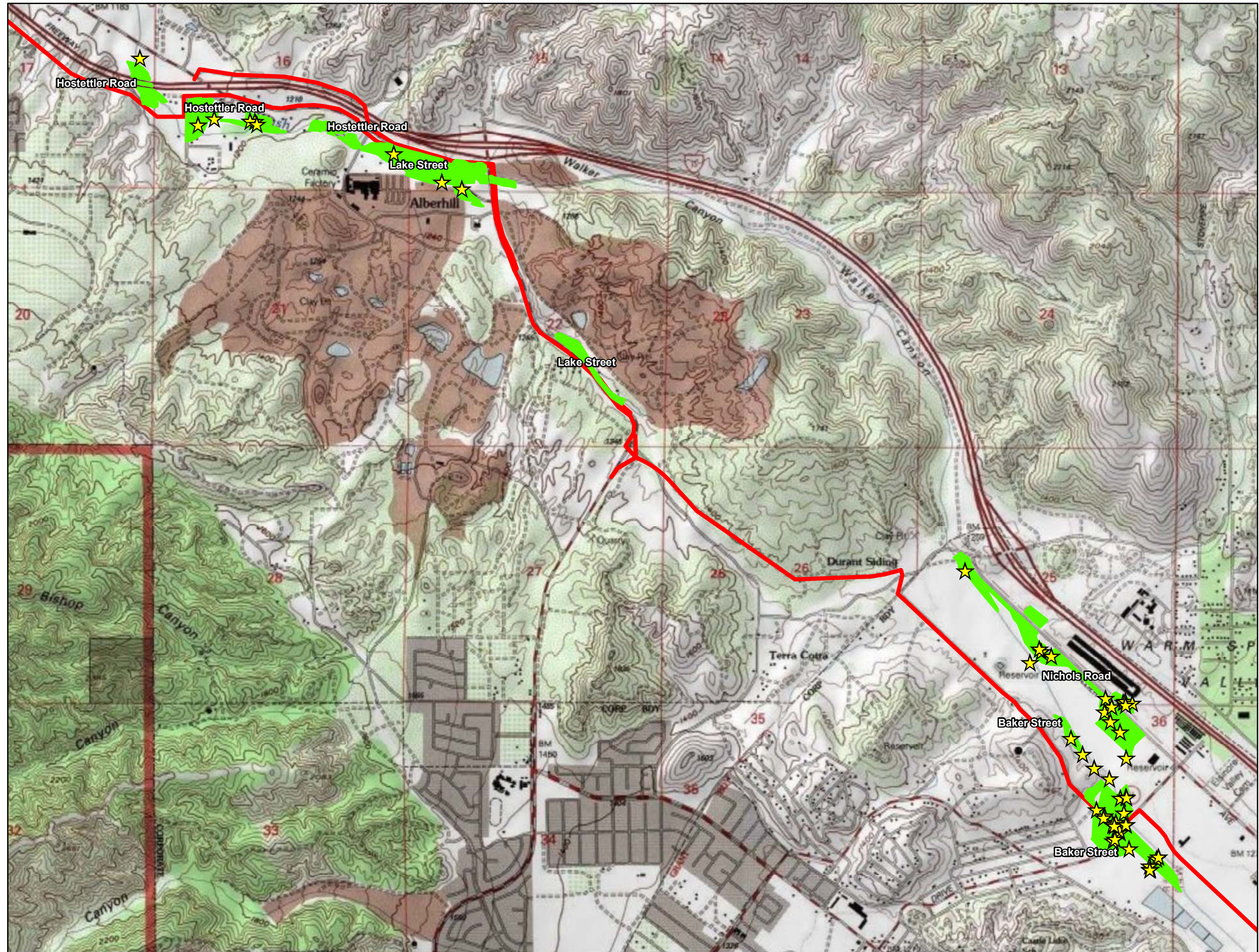
 1 inch = 2,000 feet





2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

Map 3a



Legend

- ★ Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

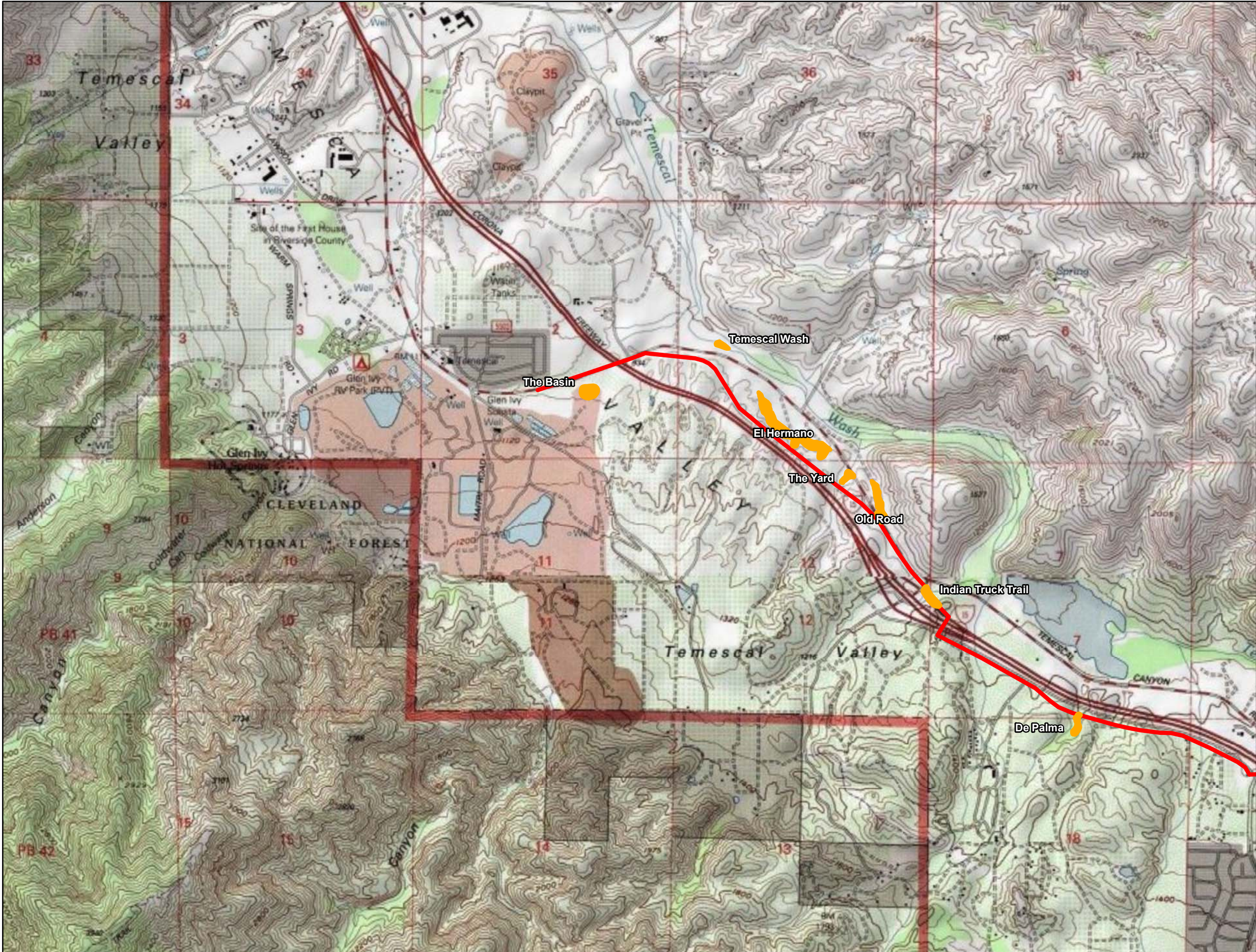
Locator Map

Map Notes
USGS Topo - Lake Elsinore (1977)
Alberhill (1977)
Survey Area - AMEC (2011)
Sightings - AMEC (2011)

amec 1 inch = 2,000 feet
0 1,000 2,000 Feet

2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

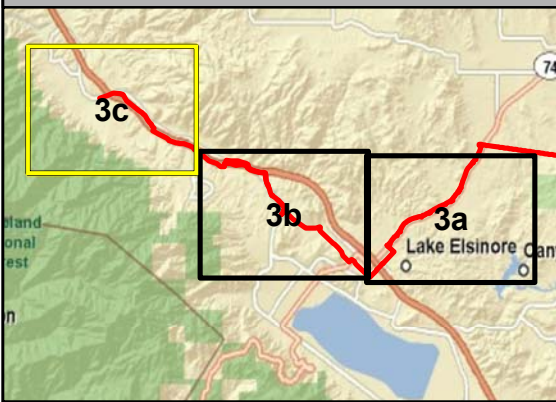
Map 3b



Legend

- Least Bell's Vireo Occurrence
- Subtransmission Centerline
- Least Bell's Vireo and Southwestern Willow Flycatcher Survey Area
- Least Bell's Vireo, Southwestern Willow Flycatcher and Western Yellow-billed Cuckoo Survey Area

Locator Map



Map Notes

- USGS Topo - Corona South (1977)
- Lake Mathews (1977)
- Santiago Peak (1977)
- Alberhill (1977)
- Survey Area - AMEC (2011)
- Sightings - AMEC (2011)

amec

1 inch = 2,000 feet

0 1,000 2,000 Feet

N

2011 Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo Surveys: Survey Areas and Least Bell's Vireo Sightings

Map 3c

DRAFT
**RESULTS OF FOCUSED SURVEYS FOR THE LEAST BELL'S VIREO,
SOUTHWESTERN WILLOW FLYCATCHER, AND
WESTERN YELLOW-BILLED CUCKOO FOR THE
VALLEY-IVYGLEN TRANSMISSION LINE PROJECT, PHASE II
RIVERSIDE COUNTY, CALIFORNIA**



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August 2012
AMEC Project No. 1255400499

EXECUTIVE SUMMARY

At the request of Southern California Edison (SCE), AMEC Environment and Infrastructure, Inc. (AMEC) conducted focused surveys for the state and federally listed as endangered Least Bell's Vireo (*Vireo belli pusillus*) and Southwestern Willow Flycatcher (*Empidonax traillii extimus*) and the state listed as endangered Western Yellow-billed Cuckoo (*Coccyx americana occidentalis*). Surveys were conducted at suitable habitat patches along the Valley-Ivyglen Transmission Line Project, Phase II (see Appendix A, Figures 1-3). These patches are locations where these species have not been detected in previous survey years (AMEC 2007, 2009, 2010, 2011). The surveys were performed to satisfy requirements of the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) (Riverside County 2003). No Least Bell's Vireos, Southwestern Willow Flycatchers, or Western Yellow-billed Cuckoos were detected.

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ACRONYMS AND ABBREVIATIONS

AMEC	AMEC Environment & Infrastructure, Inc.
CDFG	California Department of Fish and Game
°F	degrees Fahrenheit
kV	kilovolt
LBV	Least Bell's Vireo
mph	miles per hour
MSHCP	Multiple Species Habitat Conservation Plan
PST	Pacific Standard Time
project	Valley-Ivyglen Transmission Line Project, Phase I
ROW	right-of-way
SCE	Southern California Edison
study area	project ROW and 500-foot buffer from centerline of ROW
SWF	Southwestern Willow Flycatcher
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
WYBC	Western Yellow-billed Cuckoo

1.0 INTRODUCTION

At the request of Southern California Edison (SCE), AMEC Environment and Infrastructure, Inc. (AMEC) conducted focused surveys for the state and federally listed as endangered Least Bell's Vireo (*Vireo belli pusillus*) and Southwestern Willow Flycatcher (*Empidonax traillii extimus*) and the state listed as endangered Western Yellow-billed Cuckoo (*Coccyx americana occidentalis*). Surveys were conducted at suitable habitat patches along the Valley-Ivyglen Transmission Line Project, Phase II (see Appendix A, Figures 1-3). These patches are locations where none of these species have been detected during previous Valley-Ivyglen riparian birds survey efforts (AMEC 2007, 2009, 2010, 2011). The surveys were performed to satisfy requirements of the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) (Riverside County 2003). This report presents the findings of those focused surveys

1.1 Project Description

The proposed project has been divided into two portions: eastern (Phase I) and western (Phase II). Phase I extends from the Valley Substation in the City of Menifee southwest to the corner of Collier Avenue and Third Street in the City of Lake Elsinore. The Valley Substation is located in the City of Menifee on the west side of Menifee Road between McLaughlin and Ethanac Roads. Phase II extends from that corner northwest to the Ivyglen Substation in the City of Corona. The proposed project is designed to improve reliability and meet projected electrical load requirements in western Riverside County, and involves the eventual construction of a new 115 kilovolt (kV) transmission line between the Valley and Ivyglen Substations.

The proposed Phase II transmission line route (project) is located entirely in western Riverside County, California and it traverses portions of unincorporated county and the cities of Corona and Lake Elsinore (See Appendix A, Figures 1 - 3). The route traverses portions of the Lake Elsinore, Lake Mathews, and Alberhill United States Geological Survey (USGS) 7.5-minute series topographic quadrangles (see Appendix A, Figure 3).

This report concerns focused surveys conducted within the Phase II portion of the project area; Phase I will not be discussed further. Appropriate habitat was surveyed along the proposed transmission line right-of-way (ROW) and a 500-foot buffer from the centerline of the proposed ROW (study area), with the exception of areas that already have established occurrences of Least Bell's Vireos. AMEC was not given permission to survey on lands belonging to Castle and Cooke, so appropriate habitat in those areas is also excluded (see reduced survey area on Figures 2A and 3A in Appendix A).

The study area is located within the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP). The MSHCP is a comprehensive, multi-jurisdictional Habitat Conservation Plan, which focuses on conservation of species and their associated habitats in western Riverside County (Riverside County 2003).

1.2 Species Information: Least Bell's Vireo

Least Bell's Vireo (LBV) is a small, migratory, insectivorous bird which occurs in willow-dominated riparian habitats. Although this bird is drab in plumage and can be secretive within its densely vegetated habitat, males are easy to detect on the breeding grounds due to their conspicuous and diagnostic song. Nesting habitat of this species is restricted to willow and/or mulefat dominated riparian scrub along permanent or nearly permanent streams (Grinnell and Miller 1944, Goldwasser 1978, Franzreb 1987, Garrett and Dunn 1981).

Least Bell's Vireos were formerly widespread and common throughout low-lying riparian habitats of central and southern California, but are now restricted to a limited number of locations in southern California. Habitat reduction has contributed to this species' significant population declines. Nest parasitism by Brown-headed Cowbirds (*Molothrus ater*) has also seriously impacted reproductive success by Least Bell's Vireo, as well as many other species which build cup nests (Goldwasser 1978). The population is slowly recovering as a result of habitat restoration and cowbird control efforts. Least Bell's Vireo is listed as Endangered by the California Department of Fish and Game (CDFG) and by the United States Fish and Wildlife Service (USFWS) (USFWS 1986). A final determination of critical habitat was made in 1994 (USFWS 1994). The project area is not within designated critical habitat for the Least Bell's Vireo.

1.3 Species Information: Southwestern Willow Flycatcher

The Southwestern Willow Flycatcher (SWF) is a small, brownish-olive flycatcher that was formerly considered a common summer resident in southern California's lowland willow thickets and in low elevation mountain canyons (Garrett and Dunn 1981). Following the large-scale invasion of southern California by Brown-headed Cowbirds in the 1920s, along with loss of willow riparian habitat, this subspecies was nearly extirpated from southern California. The Willow Flycatcher was listed by the State of California as endangered in 1990. The subspecies *E. t. extimus* (Southwestern Willow Flycatcher) is listed as federally endangered (USFWS 1995). Critical habitat was designated for this species in 1997 (USFWS 1997), then revised and finalized again in 2005 (USFWS 2005). New revisions to critical habitat have been proposed (USFWS 2011), but not finalized. The project area is not within currently designated or proposed critical habitat for the SWF.

Surveys have revealed extant populations along the Santa Margarita and San Luis Rey Rivers in San Diego County, in the San Bernardino Mountains and along the Mojave River in San Bernardino County, the Santa Ynez River in Santa Barbara County, the Santa Clara River in Los Angeles and Ventura counties, the South Fork of the Kern River in Kern County (Unitt 1987, Marshall 2000), and the Prado Basin and San Timoteo Creek in western Riverside County (J. Pike, Orange County Water District; R. McKernan, San Bernardino County Museum: pers. comm.). This subspecies also persists in the Lower Colorado River Valley (Marshall 2000, R. McKernan, pers. comm.). Unlike LBVs, SWF populations do not appear to have gained any significant benefit from habitat restoration and cowbird control efforts.

The Southwestern Willow Flycatcher breeds in dense riparian habitats near surface water or saturated soil. Plant composition and habitat structure can vary greatly depending on the site, but willows often make up much of the understory. Populations along the Colorado River are known to use thickets dominated by both native and nonnative plants (especially Salt-Cedar [*Tamarix* spp.]). Dense patches of understory vegetation are a critical component of occupied habitat (Sogge *et al.* 1997).

1.4 Species Information: Western Yellow-billed Cuckoo

The Western Yellow-billed Cuckoo (WYBC) is an extremely rare bird in California, with less than 50 pairs found during a statewide survey in 1986-1987, and no indication of more recent population increases. Most of California's Yellow-billed Cuckoos are found in two areas: along the Sacramento River between Red Bluff and Colusa, and along the South Fork Kern River near Weldon (Laymon 1998). Western Yellow-billed Cuckoo was listed as Endangered by the State of California in 1988.

Western Yellow-billed Cuckoos are long distance migrants and return to California from their South American wintering areas in late May and June. Occupied riparian forests are usually larger than 25 acres. Detection of Western Yellow-billed Cuckoos is difficult, as they have large home ranges in dense willow and cottonwood forests and call infrequently. Recorded playback of the species' calls is the recommended method for conducting surveys.

2.0 METHODS

2.1 Least Bell's Vireo and Southwestern Willow Flycatcher

Areas considered to contain suitable habitat along the project route are below. All are recorded in UTM, Zone 11, NAD27:

- **Lake Street Mulefat Area** is a riparian patch dominated by Mule Fat (*Baccharis salicifolia*), but including willows (*Salix* spp.) as well. It is located just southeast of the intersection of Temescal Canyon Road and Lake Street. The approximate north end of survey area is at 463739E, 3731808N and the south end is at 463836E, 3731478N. No surface water or saturation was visible at this site during the 2012 riparian birds surveys. This unnamed drainage is a USGS mapped intermittent blueline stream, which appears to have shifted east of its mapped position. It is just east of habitat in Temescal Wash known to have been occupied by Least Bell's Vireos in the past and north of and contiguous with habitat to the south that could not be surveyed in 2012 because access was not granted by Castle and Cooke. This area occurs on land mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle (see Appendix A, Figures 2a and 3a). This is the only Phase II patch in the Southeast survey area (see Table 1 below).
- **Horsethief East** is a riparian patch dominated by Fremont Cottonwoods (*Populus fremontii*), willows, and Mule Fat. It is located approximately 0.4 mile southeast of the intersection of De Palma and Horsethief Canyon Roads. The approximate north end of survey area is at 463739E, 3731808N and the south end is at 463836E, 3731478N. This unnamed drainage is a USGS mapped intermittent blueline stream which is now interrupted by an upstream housing development. No surface water or saturation was visible at this site during the 2012 riparian birds surveys, but surface water was present upstream of our survey area near the housing development. This area occurs on land mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle (see Appendix A, Figures 2b and 3b). Part of the Northwest survey area (see Table 1 below).
- **Horsethief West** is a riparian patch dominated by Mule Fat and willows. It is located approximately 0.15 mile southeast of the intersection of De Palma and Horsethief Canyon Roads. The approximate north end of survey area is at 460467E, 3732884N and the south end is at 460471E, 3732851N. This unnamed drainage has been highly modified and is now interrupted by development upstream. No surface water or saturation was visible at this site during the 2012 riparian birds surveys, but surface water was present upstream of our survey area below a public park. This area occurs on land mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle (see Appendix A, Figures 2b and 3b). Part of the Northwest survey area (see Table 1 below).
- **De Palma** is a small riparian patch south of De Palma Road, approximately 0.5 mile southeast of the intersection of De Palma and Glen Eden Roads. The north end of this patch is riparian scrub (willows and Mule Fat) transitioning to oak woodlands to the southwest. Upstream rural residential may provide some moisture to this unnamed and unmapped drainage, but no surface water or saturation was visible at this site. The approximate north end of survey area is at 459298E, 3733470N and the south end is at

459180E, 3733308N. This area occurs on land mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle (see Appendix A, Figures 2c and 3b). Part of the Northwest survey area (see Table 1 below).

- **Indian Truck Trail Outliers** are two riparian patches on the same unnamed USGS mapped intermittent blueline stream. The west patch is just southeast of the intersection of the northbound Interstate 15 offramp to Indian Truck Trail, and the east patch is approximately 0.14 mile east of the intersection of Temescal Canyon Road and Indian Truck Trail. Riparian habitat in these patches consists of willows, Fremont Cottonwoods, Mule Fat, and Coast Live Oaks. Upstream development may provide some moisture to this drainage, but no surface water or saturation was visible during the survey season. The approximate west end of survey area is at 458285E, 3734226N and the east end is at 458625E, 3734337N. These patches occur on lands mapped on the USGS 7.5 minute *Alberhill, Calif.* and *Lake Mathews, Calif.* quadrangles (see Appendix A, Figures 2d and 3b). Part of the Northwest survey area (see Table 1 below).
- **Yard** is a small riparian patch southwest of Temescal Canyon Road, approximately 0.3 mile south-southeast of El Hermano Road. The approximate west end of survey area is at 457767E, 3734904N and the east end is at 457791E, 3734938N. This area occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Maps 2e and 3b). A patch of willows and Mule Fat occurs at this site. A grove of large gum trees (*Eucalyptus* sp.) is adjacent to the northeast of the riparian scrub. The site had some surface water during the entire survey season. This site is on an unnamed USGS mapped intermittent blueline stream, with flow enhanced by runoff from upstream residential development. Part of the Northwest survey area (see Table 1 below).
- **El Hermano Outliers** are three associated riparian patches southwest of the intersection of Temescal Canyon and El Hermano Roads. This area occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Maps 2e-f and 3b). The approximate west end of survey area is at 457282E, 3735400N and the east end is at 457527E, 3735332N. The westernmost patch is dominated by willows and had surface water throughout the survey season. The other two patches consisted of Mule Fat and shrubby willows and lacked surface water or saturated soils. This area is not mapped as a drainage but appears to be fed by runoff from housing developments on the other side of Interstate 15. Part of the Northwest survey area (see Table 1 below).
- **Mayhew Outliers** are two associated riparian patches just east of the intersection of Temescal Canyon and Mayhew Roads. This area occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Maps 2g and 3b). The approximate west end of survey area is at 456519E, 3735690N and the east end is at 456622E, 3735609N. The two patches contain Mule Fat and shrubby willows, but lacked surface water or saturated soils. This area is not mapped as a drainage but the eastern patch is within natural drainage contours and appears to be fed by runoff from housing developments on the other side of Interstate 15. This drainage was once blocked by fill for a now abandoned railroad crossing, and passed through a culvert there, below our survey area. That fill and culvert were blown out by flooding (in 2011?). The western patch of this survey area appears to be an artificial basin that may have filled when

- **The Basin** patch is in a detention basin/former gravel pit southwest of Temescal Canyon Road, just south of its intersection with Campbell Ranch Road. It is not a named or mapped drainage. The approximate north end of survey area is at 456189E, 3735514N and the south end is at 456184E, 3735439N. This point occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Maps 2g and 3b). This patch of approximately one acre of scrubby willow, Mulefat, and Salt-Cedar (*Tamarix ramosissima*) is within a detention basin. The Salt-Cedar occurs primarily around the perimeter of the basin, with dense willow scrub occurring in the center of the basin. No surface water or saturation was visible during the surveys. Part of the Northwest survey area (see Table 1 below).
- **The Temescal Wash Survey Area** was partially surveyed in past years as the "Temescal Wash Outlier" and the "Old Road Outlier." An ROW expansion in 2012 brought much more habitat into the survey area along Temescal Wash. This brought those two patches into an essentially contiguous stretch of habitat, done as one survey morning. Temescal Wash is a named USGS mapped intermittent blueline stream that now appears to have perennial flow, presumably due to urban runoff. Temescal Wash itself contains quality cottonwood-willow riparian forest. The old road, which is not a mapped blueline, is now located at the south end of this survey area, and outside of Temescal Wash proper. It formerly contained riparian scrub of willows and Mule Fat. It has yet to fully recover from habitat destruction conducted by some unknown party in June 2010, and is now very marginal habitat with no surface water or saturated soil noted in 2012. This survey area occurs on lands mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Appendix A, Figures 2e-f and 3b). It is north and east of Temescal Canyon Road, in both directions from its intersection with El Hermano Road. The approximate north end of survey area is at 456827E, 3735936N and the south end is at 458020E, 3734720N.

In accordance with the currently accepted survey protocol for the Least Bell's Vireo (USFWS 2001), each site was surveyed eight times by AMEC Earth and Environmental (AMEC) biologists. The LBV protocol requires surveys to be conducted at least 10 days apart from 10 April to 31 July. The SWF protocol requires five surveys, and that the first survey be performed from 15 May to 31 May, the next two surveys from 1 June to 24 June, and the final two surveys between 25 June and 17 July (Sogge et al. 2010). The SWF surveys were performed concurrently with LBV surveys. Suitable habitat for the Western Yellow-billed Cuckoo (WYBC) was present only in the Temescal Canyon survey area. Surveys were conducted using the most recent version of the protocol available (Halterman, et al 2011). This protocol requires one survey in each of the following four periods: mid-late June, early-mid July, mid-late July, and early-mid August. The first two surveys were conducted concurrent with LBV and SWF surveys. Surveys consisted of slowly moving through the habitat while listening for the songs and calls of the target species. During the SWF and WYBC surveys, recordings of their vocalizations were broadcast as required by protocol. All bird species detected during the surveys were recorded in field notes.

To cover all of the riparian patches, each full survey “visit” was done on three person days. Surveys were performed by Chet McGaugh (federal Endangered Species Permit TE836517-6), Stephen J. Myers (TE804203-9), and John F. Green (TE054011-5). Table 1 summarizes the surveys. The survey areas are illustrated on Maps 2A through 2G (aerial photos) and 3A through 3B (USFWS required topographic maps).

Table 1.
Least Bell's Vireo and Southwestern Willow Flycatcher Survey Data

Date	Observer	Time (PST)	Temp. (°F)	Wind (mph)	Sky (% cover)
Southeast Survey: Lake Street Mulefat & Phase I patches (for Phase I report see AMEC 2012)					
10 April 2012	Stephen J. Myers	0620-1045	55-73	0-6	0
20 April 2012	Chet McGaugh	0520-1000	56	0-3	0
3 May 2012	Chet McGaugh	0605-1045	58	-	100
15 May 2012†	John F. Green	0605-0850	-	-	0
4 June 2012†	Chet McGaugh	0510-0950	61-76	0-4	100-clearing
14 June 2012†	Chet McGaugh	0525-0950	54-82	0-3	100
28 June 2012†	John F. Green	0545-0810	63-79	0-3	0
9 July 2012†	Stephen J. Myers	0445-0945	66-93	0-3	0
Northwest Survey (Horsethief, De Palma, Indian Truck Trail, Yard, El Hermano, Mayhew, & Basin)					
10 April 2012	Chet McGaugh	0600-1030	55-73	0-7	0
20 April 2012	Stephen J. Myers	0540-1000	59-90	0-5	0
1 May 2012	Chet McGaugh	0505-1045	59-63	0-6	100
15 May 2012†	Stephen J. Myers	0510-0955	57-75	0-4	0
1-2 June 2012†	John F. Green	0815-1000	-	-	-
		0750-0920	66-73	1-3	99-0
13 June 2012†	John F. Green	0625-0935	62-75	0-3	50-0
26 June 2012†	Chet McGaugh	0450-1000	56-77	0-5	0
6 July 2012†	Chet McGaugh	0550-1000	67-73	0-7	100-0
Temescal Wash Survey (including Old Road)					
12 April 2012	John F. Green	0805-1015	63-71	1-1	35-45
24 April 2012	Chet McGaugh	0515-0945	56-60	0-2	-
4 May 2012	Stephen J. Myers	0605-0930	58-78	0-5	0
15 May 2012†	Chet McGaugh	0525-0950	47-75	0	0
4 June 2012†	Stephen J. Myers	0525-0905	53-74	0-4	100-20
14 June 2012†	John F. Green	0620-0840	60-64	1-4	100
25 June 2012*	Stephen J. Myers	0445-0855	60-74	0-3	0
5 July 2012*	John F. Green	0535-0845	63-68	1-3	100-80
19 July 2012	John F. Green	0650-0930	76-87	1-7	10-5
2 August 2012	Stephen J. Myers	0540-0845	67-80	0-3	0

† LBV and SWF surveys conducted concurrently. First three surveys were for LBV only.

* LBV, SWF, and WYBC surveys conducted concurrently. Last two surveys were for WYBC only.

3.0 RESULTS

3.1 Habitat Description

The five survey areas are all vegetated with plants typical of lowland riparian areas in Southern California, including willows (*Salix* spp.), Mule Fat (*Baccharis salicifolia*), Fremont Cottonwoods (*Populus fremontii*), and Western Sycamore (*Platanus racemosa*). Information specific to each path is included in Section 2.1.

3.2 Survey Results

One-hundred-six bird species were detected during the 2012 Phase II riparian birds focused surveys. Among the most frequently detected species were the following birds that are typical of lowland riparian habitats in southern California: Mourning Dove (*Zenaida macroura*), Black-chinned Hummingbird (*Archilochus alexandri*), Nuttall's Woodpecker (*Picoides nuttallii*), Black Phoebe (*Sayornis nigricans*), Bushtit (*Psaltiriparus minimus*), House Wren (*Troglodytes aedon*), Yellow Warbler (*Setophaga petechia*), Common Yellowthroat (*Geothlypis trichas*), Song Sparrow (*Melospiza melodia*), and Lesser Goldfinch (*Spinus psaltria*).

3.2.1 Least Bell's Vireo

No Least Bell's Vireos were detected at any of the survey areas.

3.2.2 Southwestern Willow Flycatcher

No Southwestern Willow Flycatchers or any other subspecies of Willow Flycatcher were detected at any of the survey areas.

3.2.3 Western Yellow-billed Cuckoo

No Western Yellow-billed Cuckoos were detected at any of the survey areas.

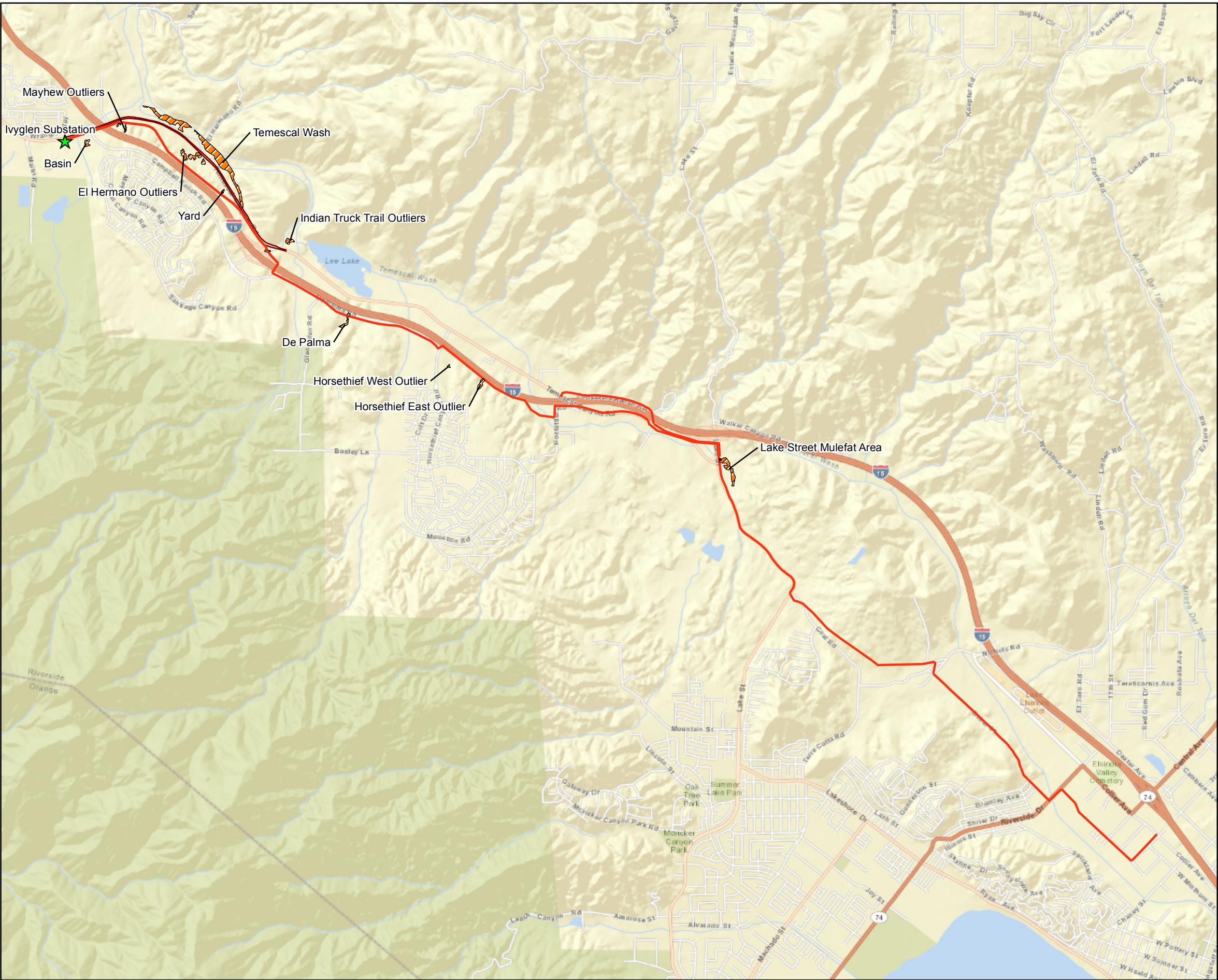
4.0 LITERATURE CITED

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APPENDIX A

FIGURES



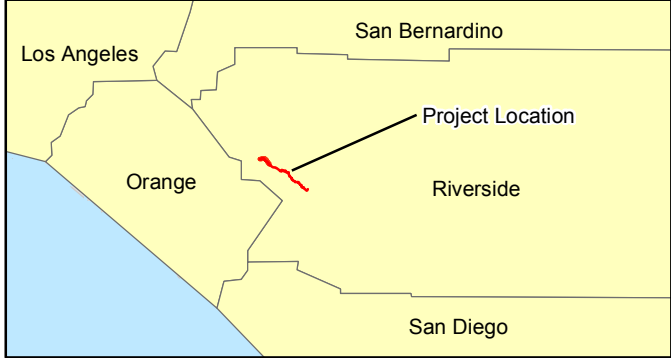
Legend

-  Survey Area
-  Phase II Transmission Line Route
-  Possible Temescal UG Route

Vicinity Map



Regional Map



Map Notes-
Source:S:\active projects\SCE Projects\
Valley-Ivyglen 2012 Phase II 12-554-00499\graphics
\maps
Survey: trees(amec2012)
Route:line12 & possible temescal UG route(SCE 2011)
Projection: NAD 83 state plane CA 406ft

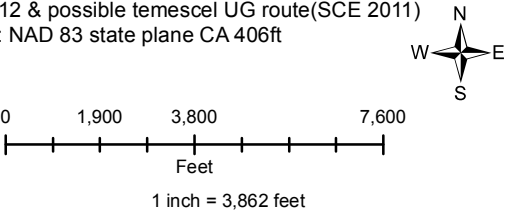
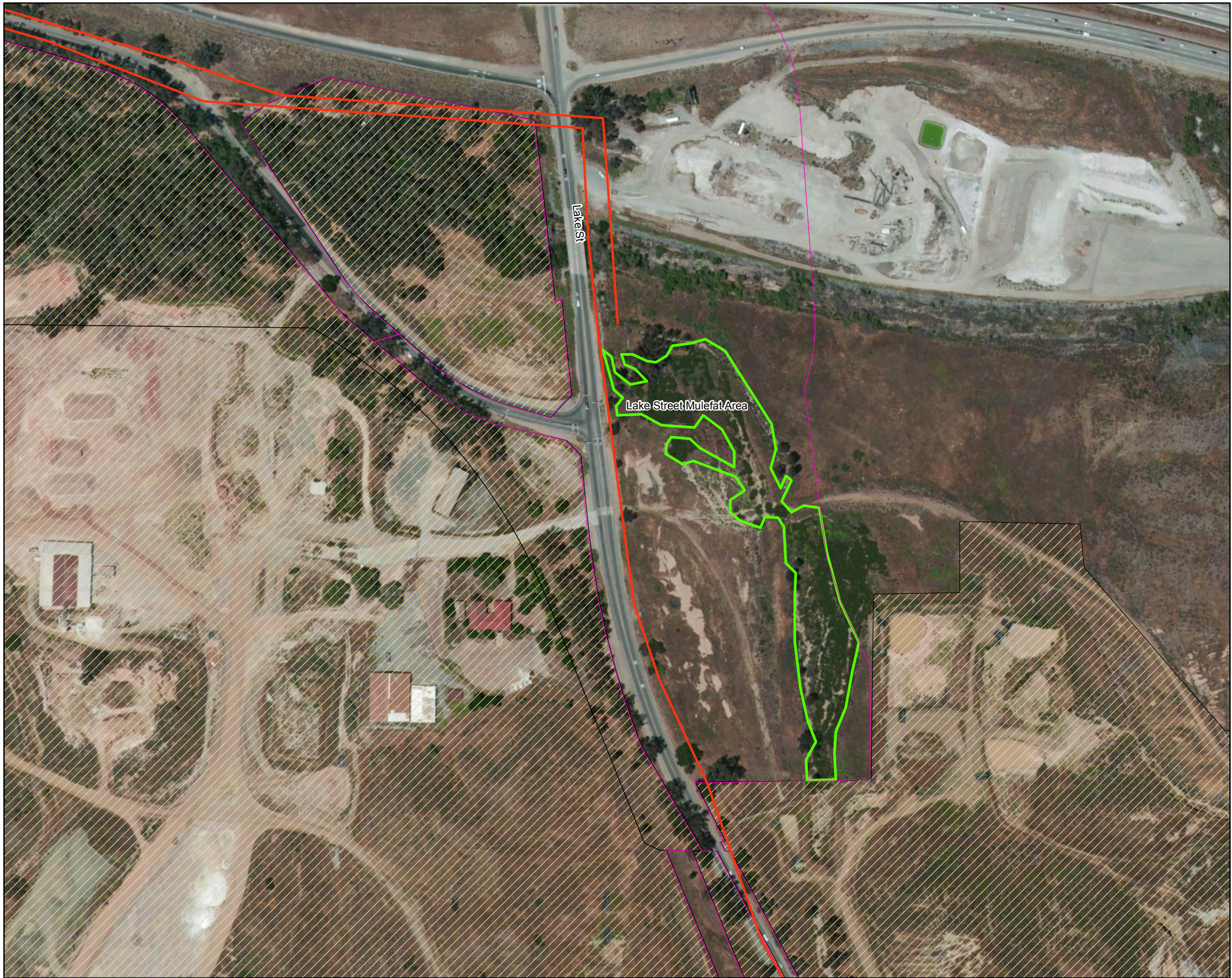


Figure 1
2012 Riparian Bird Focused Surveys
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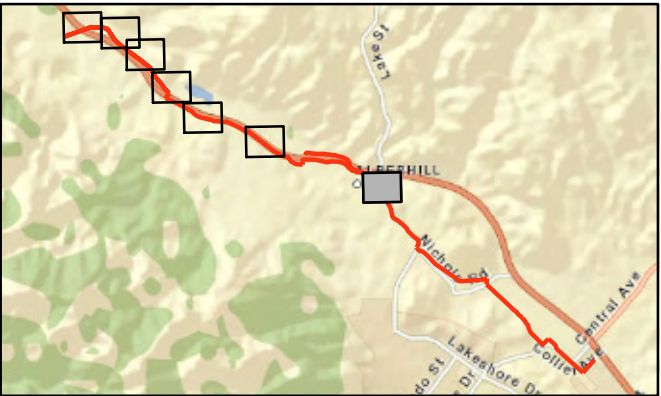




Legend

- Possible Temescal UG Route
- Phase II Transmission Line Route
- 2012 Study Area
- Survey Area
- ▨ Castle & Cooke Properties

Locator Map



Map Notes-

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 Survey: trees(amec2012)
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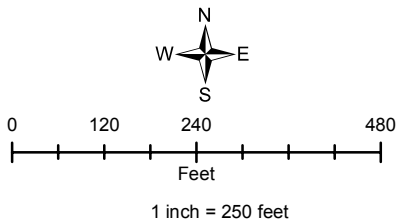


Figure 2 A
 2012 Riparian Bird Focused Surveys
 Valley-Ivyglen Transmission Line Project: Phase II

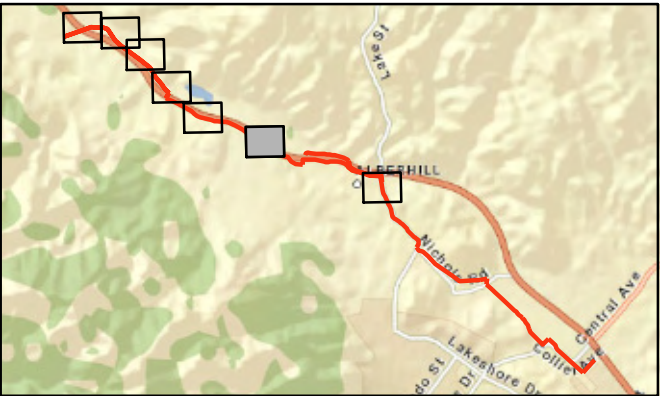




Legend

- Possible Temescal UG Route
- Phase II Transmission Line Route
- 2012 Study Area
- Survey Area
- Castle & Cooke Properties

Locator Map



Map Notes-

Source:S:\active projects\SCE Projects
Valley-Ivyglen 2012 Phase II 12-554-00499
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Route: line12 & UG Route(SCE 2011)
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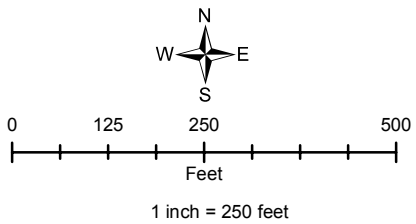
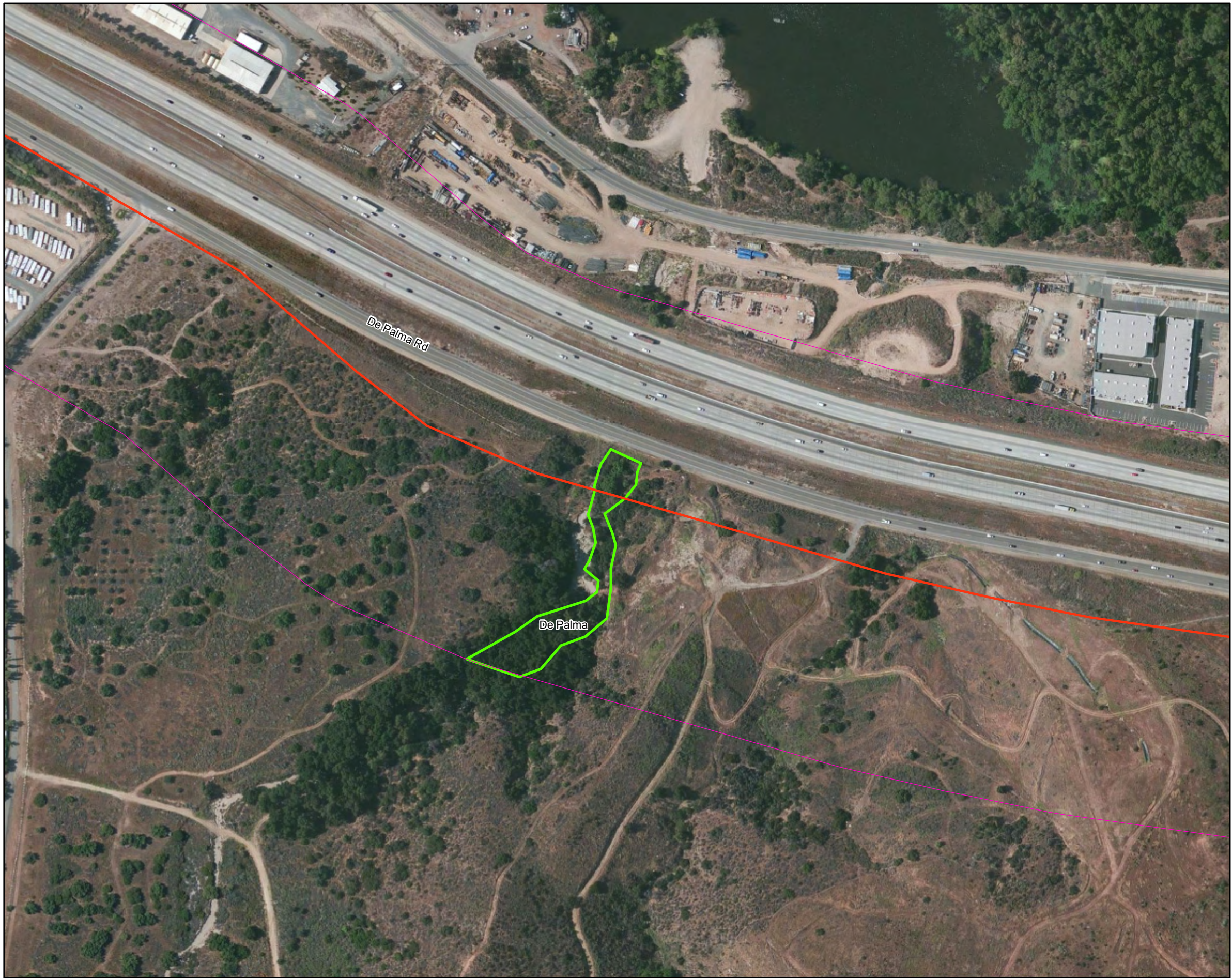


Figure 2 B
2012 Riparian Bird Focused Surveys
Valley-Ivyglen Transmission Line Project: Phase II

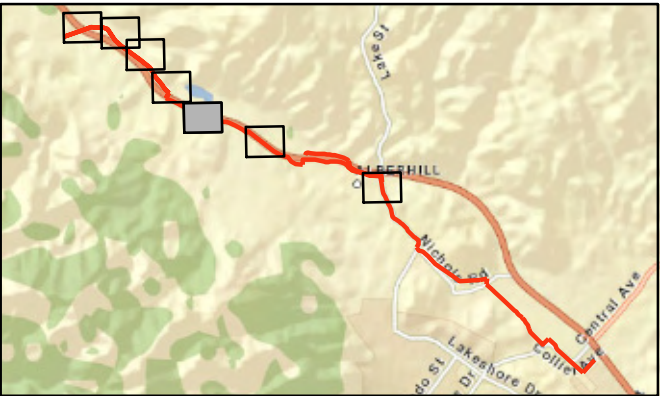




Legend

- Possible Temescal UG Route
- Phase II Transmission Line Route
- 2012 Study Area
- Survey Area
- Castle & Cooke Properties

Locator Map



Map Notes-

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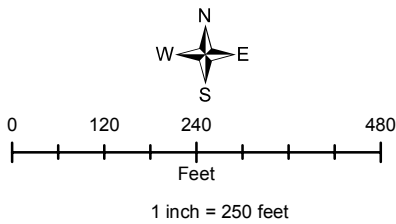


Figure 2 C
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 Valley-Ivyglen Transmission Line Project: Phase II

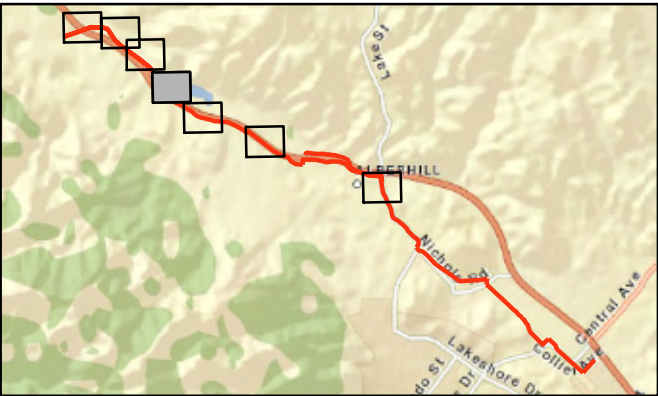




Legend

- Possible Temescal UG Route
- Phase II Transmission Line Route
- 2012 Study Area
- Survey Area
- Castle & Cooke Properties

Locator Map



Map Notes-

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Valley-Ivyglen 2012 Phase II 12-554-00499
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Route: line12 & UG Route(SCE 2011)
Projection: NAD 83 state plane CA 406ft

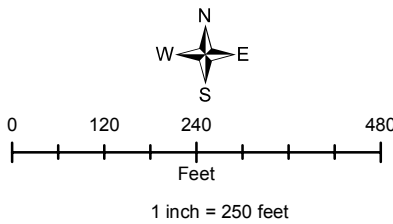


Figure 2 D
2012 Riparian Bird Focused Surveys
Valley-Ivyglen Transmission Line Project: Phase II

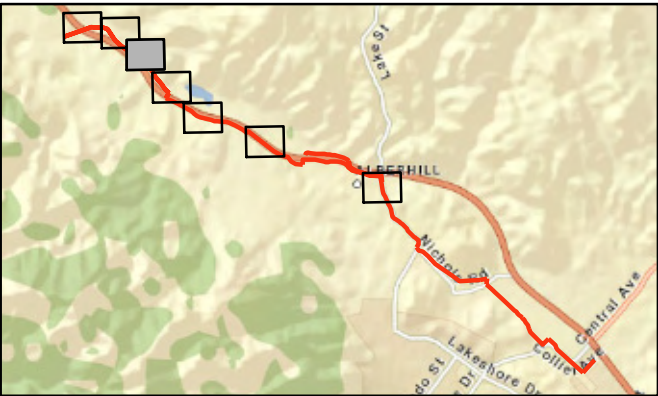




Legend

- Western Yellow-billed Cuckoo Broadcast Points
- Possible Temescal UG Route
- Phase II Transmission Line Route
- 2012 Study Area
- Survey Area
- Castle & Cooke Properties

Locator Map



Map Notes-

Source:S:\active projects\SCE Projects
Valley-Ivyglen 2012 Phase II 12-554-00499
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Route: line12 & UG Route(SCE 2011)
Projection: NAD 83 state plane CA 406ft

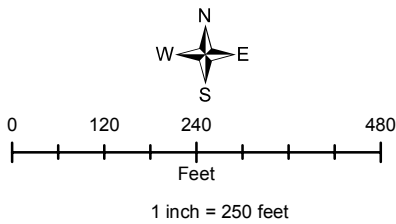


Figure 2 E
2012 Riparian Bird Focused Surveys
Valley-Ivyglen Transmission Line Project: Phase II

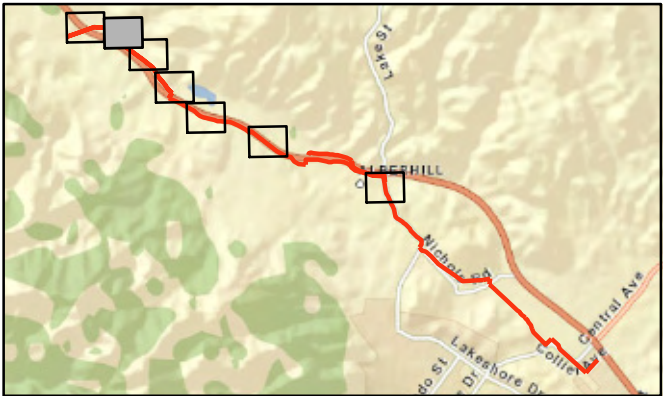




Legend

- Western Yellow-billed Cuckoo Broadcast Points
- Possible Temescal UG Route
- Phase II Transmission Line Route
- 2012 Study Area
- Survey Area
- Castle & Cooke Properties

Locator Map



Map Notes-

Source: S:\active projects\SCE Projects
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 Survey: trees(amec2012)
 Route: line12 & UG Route(SCE 2011)
 Projection: NAD 83 state plane CA 406ft

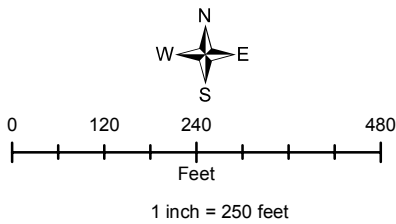


Figure 2 F
2012 Riparian Bird Focused Surveys
Valley-Ivyglen Transmission Line Project: Phase II

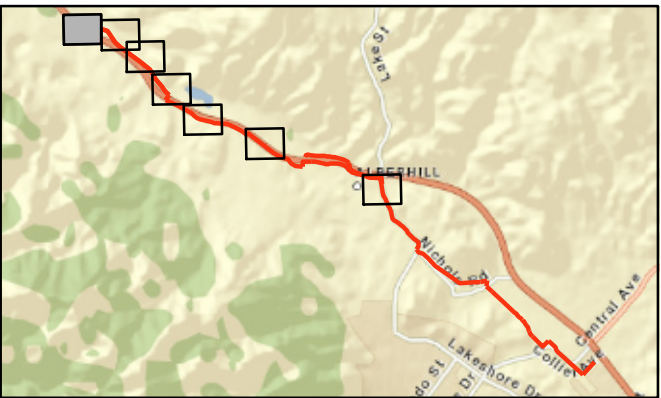




Legend

- ◆ Western Yellow-billed Cuckoo Broadcast Points
- Possible Temescal UG Route
- Phase II Transmission Line Route
- 2012 Study Area
- Survey Area
- Castle & Cooke Properties

Locator Map



Map Notes-

Source: S:\active projects\SCE Projects
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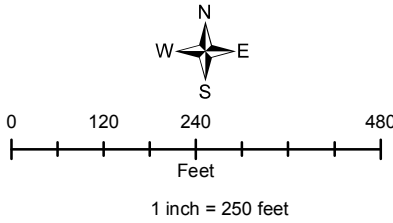
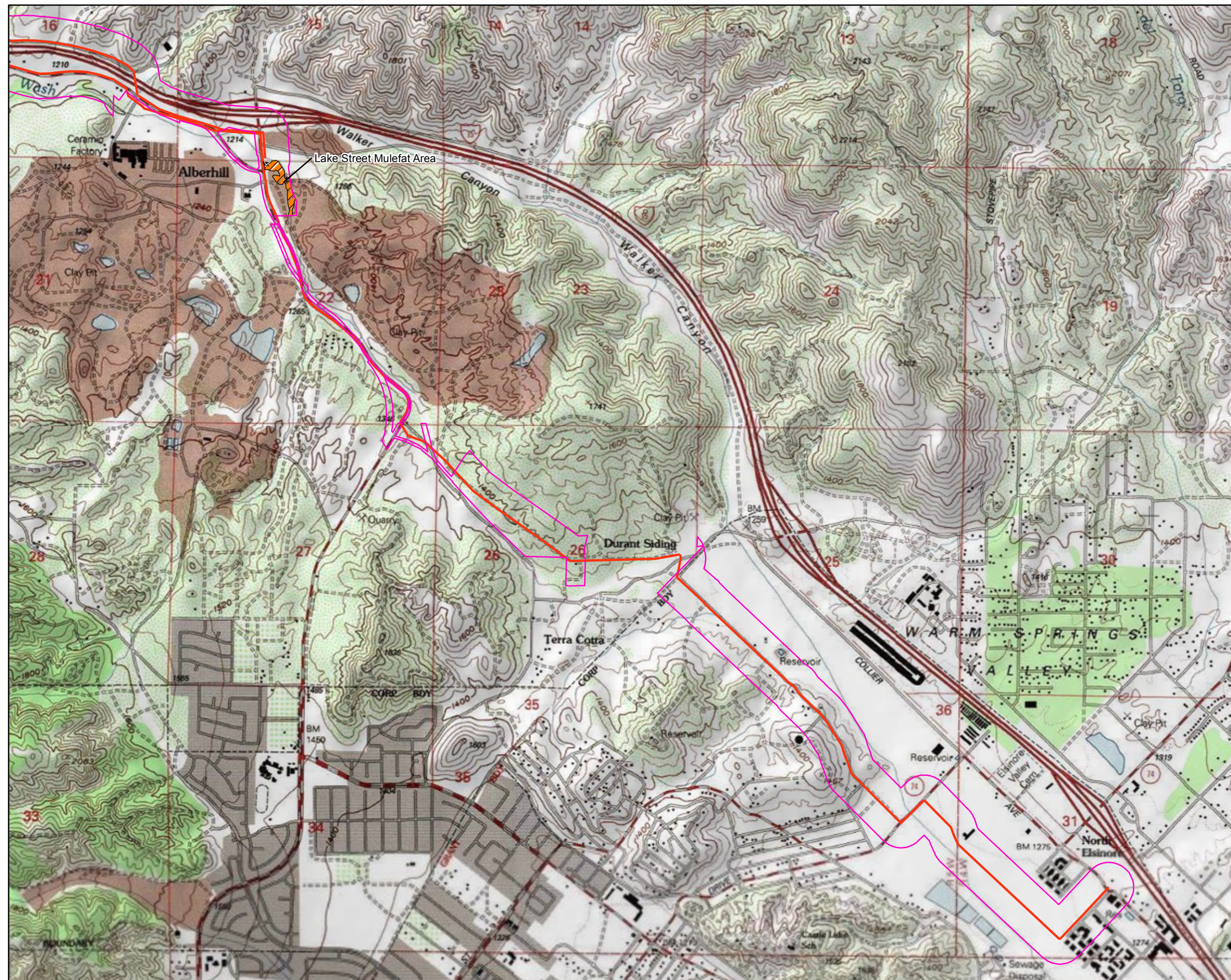


Figure 2 G
2012 Riparian Bird Focused Surveys
Valley-Ivyglen Transmission Line Project: Phase II

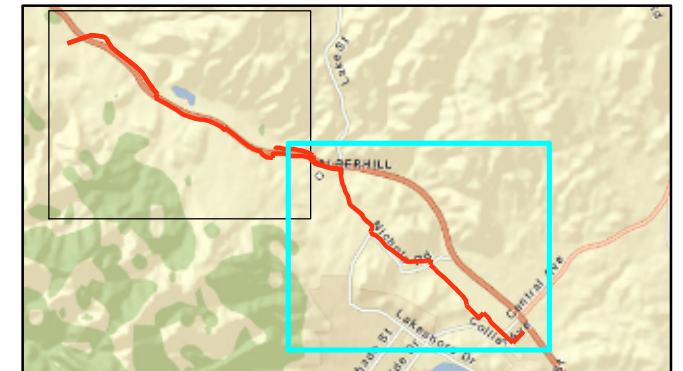




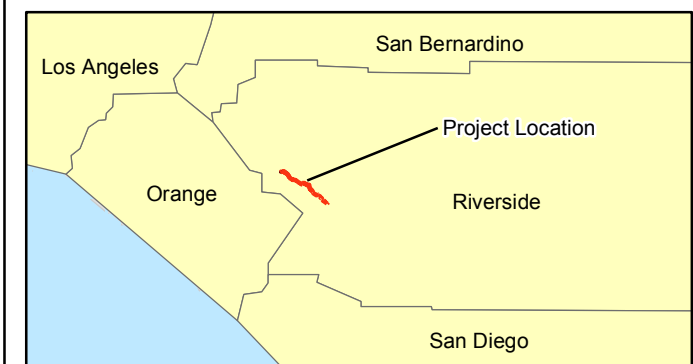
Legend

- 2012 Study Area
- Survey Area
- Phase II Transmission Line Route

Locator Map



Regional Map



Map Notes-

Source: S:\active projects\SCE Projects\Valley-Ivyglen
2012 Phase II 12-554-00499\graphics\maps
Survey: trees(amec2012)
Route: line12 & possible temescal UG route(SCE 2011)
USGS: Topo 7.5' Romoland & Lake Elsinore quad
Projection: NAD 83 state plane CA 406ft

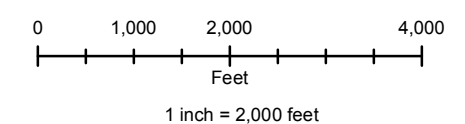
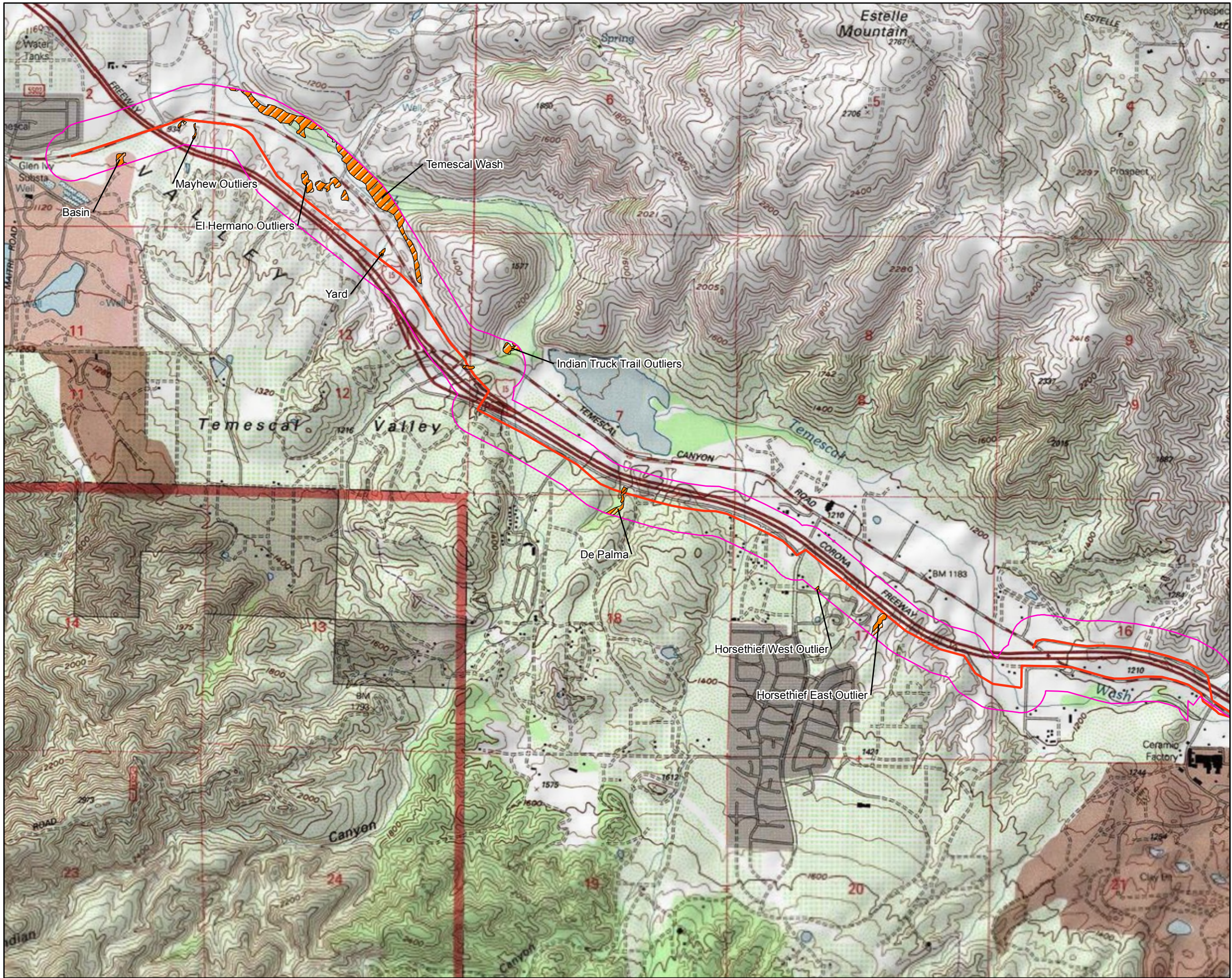





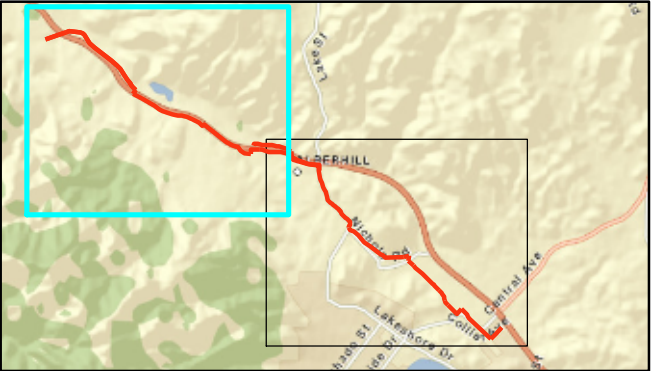
Figure 3A
Survey Areas
2012 Riparian Bird Focused Surveys
Valley-Ivyglen Transmission Line Project: Phase II



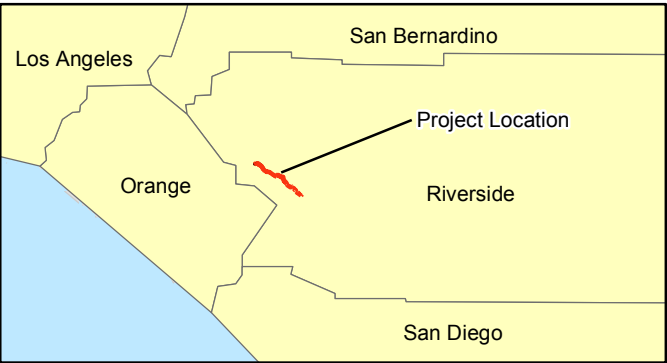
Legend

-  2012 Study Area
-  Survey Area
-  Phase II Transmission Line Route

Locator Map



Regional Map



Map Notes-

Source: S:\active projects\SCE Projects\Valley-Ivyglen
2012 Phase II 12-554-00499\graphics\maps
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Route: line12 & possible temescal UG route(SCE 2011)
USGS: Topo 7.5' Romoland & Lake Elsinore quad
Projection: NAD 83 state plane CA 406ft

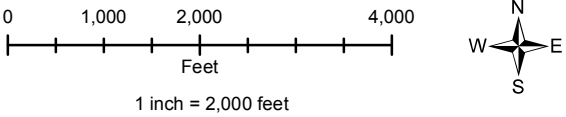


Figure 3B
Survey Areas
2012 Riparian Bird Focused Surveys
Valley-Ivyglen Transmission Line Project: Phase II



APPENDIX B

BIRD SPECIES LIST

BIRD SPECIES LIST

This list reports only bird species which were observed along the Phase I project alignment during 2012 focused riparian bird surveys. Nomenclature and taxonomy for birds observed on site follows the American Ornithologists' Union Checklist (1998) and its supplements.

SYMBOLS AND ABBREVIATIONS:

- sp. Identified only to genus; species unknown (plural = spp.)
- * Non-native species
- ** Sensitive species (State or Federally Listed as Threatened or Endangered, State Fully Protected, or a CDFG Species of Special Concern / Watch List Species, or a MSHCP Covered Species)

BIRDS

Swans, Geese, and Ducks

Wood Duck
Gadwall
Mallard
Ruddy Duck

New World Quail

California Quail

Partridges, Grouse, Turkeys & Old World Quail

*Ring-necked Pheasant

Cormorants

**Double-crested Cormorant

Bitterns and Herons

**Great Blue Heron
Great Egret
Snowy Egret
Green Heron
**Black-crowned Night-Heron

American Vultures

**Turkey Vulture

Hawks, Kites, Eagles

**White-tailed Kite
**Bald Eagle
**Northern Harrier
**Cooper's Hawk
Red-shouldered Hawk
**Swainson's Hawk
Red-tailed Hawk

Falcons

American Kestrel

AVES

Anatidae

Aix sponsa
Anas strepera
Anas platyrhynchos
Oxyura jamaicensis

Odontophoridae

Callipepla californica

Phasianidae

Phasianus colchicus

Phalacrocoracidae

Phalacrocorax auritus

Ardeidae

Ardea herodias
Ardea alba
Egretta thula
Butorides virescens
Nycticorax nycticorax

Cathartidae

Cathartes aura

Accipitridae

Elanus leucurus
Haliaeetus leucocephalus
Circus cyaneus
Accipiter cooperii
Buteo lineatus
Buteo swainsoni
Buteo jamaicensis

Falconidae

Falco sparverius

Rails, Gallinules, and Coots

Sora

Plovers and Lapwings

Killdeer

Stilts and Avocets

American Avocet

Gulls, Terns, and Skimmers

Bonaparte's Gull

California Gull

Ring-billed Gull

Caspian Tern

Pigeons and Doves

*Rock Pigeon

Band-tailed Pigeon

*Eurasian Collared-Dove

Mourning Dove

Cuckoos, Roadrunners, Allies

Greater Roadrunner

Barn Owls

Barn Owl

Swifts

**Vaux's Swift

White-throated Swift

Hummingbirds

Black-chinned Hummingbird

Anna's Hummingbird

Rufous/Allen's Hummingbird

Woodpeckers and Allies

Acorn Woodpecker

Nuttall's Woodpecker

**Downy Woodpecker

Northern Flicker

Flycatchers

**Olive-sided Flycatcher

Black Phoebe

Say's Phoebe

Ash-throated Flycatcher

Cassin's Kingbird

Western Kingbird

Vireos

Hutton's Vireo

Warbling Vireo

Rallidae

Porzana carolina

Charadriidae

Charadrius vociferus

Recurvirostridae

Recurvirostra americana

Laridae

Chroicocephalus philadelphia

Larus californicus

Larus delawarensis

Hydroprogne caspia

Columbidae

Columba livia

Patagioenas fasciata

Streptopelia decaocto

Zenaida macroura

Cuculidae

Geococcyx californianus

Tytonidae

Tyto alba

Apodidae

Chaetura vauxi

Aeronautes saxatalis

Trochilidae

Archilochus alexandri

Calypte anna

Selasphorus sp.

Picidae

Melanerpes formicivorus

Picoides nuttallii

Picoides pubescens

Colaptes auratus

Tyrannidae

Contopus cooperi

Sayornis nigricans

Sayornis saya

Myiarchus cinerascens

Tyrannus vociferus

Tyrannus verticalis

Vireonidae

Vireo huttoni

Vireo gilvus

Jays, Magpies and Crows

Western Scrub-Jay
American Crow
Common Raven

Larks

**Horned Lark

Swallows

Violet-green Swallow
**Tree Swallow
Northern Rough-winged Swallow
Cliff Swallow
Barn Swallow

Chickadees and Titmice

Mountain Chickadee
Oak Titmouse

Long-tailed Tits and Bushtits

Bushtit

Wrens

Rock Wren
House Wren
Bewick's Wren

Sylviid Warblers

Wrentit

Thrushes

Hermit Thrush

Mockingbirds, Thrashers, and Allies

Northern Mockingbird
California Thrasher

Starlings and Allies

*European Starling

Wagtails and Pipits

American Pipit

Silky-flycatchers

Phainopepla

Wood-Warblers

Orange-crowned Warbler
**Nashville Warbler
**MacGillivray's Warbler
Common Yellowthroat
**Yellow Warbler
Yellow-rumped Warbler
**Wilson's Warbler
**Yellow-breasted Chat

Corvidae

Aphelocoma californica
Corvus brachyrhynchos
Corvus corax

Alaudidae

Eremophila alpestris

Hirundinidae

Tachycineta thalassina
Tachycineta bicolor
Stelgidopteryx serripennis
Petrochelidon pyrrhonota
Hirundo rustica

Paridae

Poecile gambeli
Baeolophus inornatus

Aegithalidae

Psaltirparus minimus

Troglodytidae

Salpinctes obsoletus
Troglodytes aedon
Thryomanes bewickii

Sylviidae

Chamaea fasciata

Turdidae

Catharus guttatus

Mimidae

Mimus polyglottos
Toxostoma redivivum

Sturnidae

Sturnus vulgaris

Motacillidae

Anthus rubescens

Ptilonotidae

Phainopepla nitens

Parulidae

Oreothlypis celata
Oreothlypis ruficapilla
Geothlypis tolmiei
Geothlypis trichas
Setophaga petechia
Setophaga coronata
Cardellina pusilla
Icteria virens

Emberizines

Spotted Towhee
**Southern California Rufous-crowned Sparrow
California Towhee
Lark Sparrow
**Bell's Sage Sparrow
Savannah Sparrow
Song Sparrow
**Lincoln's Sparrow
White-crowned Sparrow

Cardinals and Allies

Western Tanager
Black-headed Grosbeak
Blue Grosbeak
Lazuli Bunting

Blackbirds and Allies

Red-winged Blackbird
Western Meadowlark
Brewer's Blackbird
Great-tailed Grackle
Brown-headed Cowbird
Hooded Oriole
Bullock's Oriole

Finches and Allies

Purple Finch
House Finch
Lesser Goldfinch
American Goldfinch

Old World Sparrows

*House Sparrow

Emberizidae

Pipilo maculatus
Aimophila ruficeps canescens
Melospiza crissalis
Chondestes grammacus
Artemisiospiza belli belli
Passerculus sandwichensis
Melospiza melodia
Melospiza lincolnii
Zonotrichia leucophrys

Cardinalidae

Piranga ludoviciana
Pheucticus melanocephalus
Guiraca caerulea
Passerina amoena

Icteridae

Agelaius phoeniceus
Sturnella neglecta
Euphagus cyanocephalus
Quiscalus mexicanus
Molothrus ater
Icterus cucullatus
Icterus bullockii

Fringillidae

Haemorhous purpureus
Haemorhous mexicanus
Spinus psaltria
Spinus tristis

Passeridae

Passer domesticus

APPENDIX C

SURVEY FORMS

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase II - Lake St. Mulefat State CA County Riverside
 USGS Quad Name Alberhill Elevation 380 (meters)
 Creek, River, Wetland, or Lake Name unnamed
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 463739 N 371808 UTM Datum NAD27 (See instructions)
 Stop: E 463836 N 3731478 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Observer(s) (Full Name)	Date (m/d/y)	Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
									# Birds	Sex	UTM E	UTM N
Survey # 1	Observer(s) <u>Green</u>	Date <u>15 May</u>	Start <u>0605</u> Stop <u>0850</u> Total hrs <u>2.75</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>—</u>				
Survey # 2	Observer(s) <u>Chet McGough</u> TE <u>836517-6</u>	Date <u>4 Jun</u>	Start <u>0510</u> Stop <u>0950</u> Total hrs <u>4h 40m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>A Brown-headed Cowbird (BHCO) - see comments</u>				
Survey # 3	Observer(s) <u>McGough</u>	Date <u>14 Jun</u>	Start <u>0525</u> Stop <u>0950</u> Total hrs <u>4h 25m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>A</u>				
Survey # 4	Observer(s) <u>Green</u>	Date <u>28 Jun</u>	Start <u>0545</u> Stop <u>0810</u> Total hrs <u>2h 35m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>—</u>				
Survey # 5	Observer(s) <u>Stephen Myers</u> TE <u>804203-9</u>	Date <u>9 Jul</u>	Start <u>0445</u> Stop <u>0945</u> Total hrs <u>5</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>—</u>				
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. * 19 hr				Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
Total Survey Hrs <u>25 min</u>				<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>					

Reporting Individual John F. Green Date Report Completed 27 July 2012 (draft)
 US Fish and Wildlife Service Permit # TE054011-5 State Wildlife Agency Permit # SC-001951 attachment - Green
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.
Myers
McGough

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley-Ivyglen, Phase II-Lake Street Mulefat Area Date Report Completed 27 July 2012 (draft)
 Was this site surveyed in a previous year? Yes ☐ No ☒ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☐ No ☐ Not Applicable ☒
 If site 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 below. N/A
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below. _____

Management Authority for Survey Area: Federal ☐ Municipal/County ☒ State ☐ Tribal ☐ Private ☐
 Name of Management Entity or Owner (e.g., Tonto National Forest) Riverside County Parks

Length of area surveyed: 0.35 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Baccharis salicifolia, Salix spp.

Average height of canopy (Do not include a range): 3 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

*survey times include the full morning of surveys, including visits to other patches. Times are in standard, not daylight savings time

A = seen during survey day

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase II - Horsethief East State CA County Riverside
 USGS Quad Name Alberhill Elevation 400 (meters)
 Creek, River, Wetland, or Lake Name Unnamed
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 463739 N 3731808 UTM Datum NAD27 (See instructions)
 Stop: E 463836 N 3731478 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	2012						GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Date (m/d/y) Survey time * see comments	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) Stephen J. Myers TE 804203-9	Date 15 May Start 0510 Stop 0955 Total hrs 4.75	0	0	0	N	Δ Brown-headed cowbird (BHCO) see comments				
Survey # 2 Observer(s) Green	Date 12 Jun Start 0815 Stop 1000 Total hrs 3.25	0	0	0	N	BHCO				
Survey # 3 Observer(s) Green	Date 13 Jun Start 0625 Stop 0935 Total hrs 3h 10m	0	0	0	N	—				
Survey # 4 Observer(s) Chet McGough TE 836517-6	Date 26 Jun Start 0450 Stop 1000 Total hrs 5h 10m	0	0	0	N	—				
Survey # 5 Observer(s) McGough	Date 6 Jul Start 0550 Stop 1000 Total hrs 4h 10m	0	0	0	N	—				
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs 20.5		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
		0	0	0	0					

Reporting Individual John F. Green Date Report Completed 27 July 2012 (draft)
 US Fish and Wildlife Service Permit # TE054011-5 State Wildlife Agency Permit # SC-001951 attachment - all
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records. surveyors

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley-Ivyglen, Phase II - Horseshoe East Date Report Completed 27 July 2012 (draft)
 Was this site surveyed in a previous year? Yes ☐ No ☒ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☐ No ☐ Not Applicable ☒
 If site 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 below. N/A
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below. _____

Management Authority for Survey Area: Federal ☐ Municipal/County ☐ State ☐ Tribal ☐ Private ☒
 Name of Management Entity or Owner (e.g., Tonto National Forest) Richard Communities

Length of area surveyed: 0.15 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Populus fremontii, Salix spp., Baccharis salicifolia

Average height of canopy (Do not include a range): 8 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

*survey times are for full morning, not just this patch. Times are in standard.

4 seen during survey day

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase II - Harsethief West State CA County Riverside
 USGS Quad Name Alberhill Elevation 400 (meters)
 Creek, River, Wetland, or Lake Name Unnamed
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 460467 N 3732884 UTM Datum NAD27 (See instructions)
 Stop: E 460471 N 3732851 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	2012						GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.				
Observer(s) (Full Name)	Date (m/d/y) Survey time * see comments	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats (livestock, cowbirds, <i>Diorhabda</i> spp.)). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	# Birds	Sex	UTM E	UTM N	
Survey # 1 Observer(s) Stephen J. Myers TE 804203-9	Date 15 May Start 0510 Stop 0955 4.75 Total hrs	0	0	0	N	A Brown-headed cowbird (BHCO) see comments					
Survey # 2 Observer(s) Green	Date 12 Jun Start 0815 Stop 0920 3.25 Total hrs	0	0	0	N	—					
Survey # 3 Observer(s) Green	Date 13 Jun Start 0625 Stop 0935 3h 10m Total hrs	0	0	0	N	—					
Survey # 4 Observer(s) Chet McGough TE 836517-6	Date 26 Jun Start 0450 Stop 1000 5h 10m Total hrs	0	0	0	N	—					
Survey # 5 Observer(s) McGough	Date 6 Jul Start 0550 Stop 1000 4h 10m Total hrs	0	0	0	N	—					
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs <u>20.5</u>		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.					
		0	0	0	0						

Reporting Individual John F. Green Date Report Completed 27 July 2012 (draft)
 US Fish and Wildlife Service Permit # TE054011-5 State Wildlife Agency Permit # SC-001951 attachment - all
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records. surveyors

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley-Ivyglen, Phase II - Horsethief West Date Report Completed 27 July 2012 (draft)
 Was this site surveyed in a previous year? Yes ☐ No ☒ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☐ No ☐ Not Applicable ☒
 If site 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 below. N/A
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below. _____
 Management Authority for Survey Area: Federal ☐ Municipal/County ☐ State ☐ Tribal ☐ Private ☒
 Name of Management Entity or Owner (e.g., Tonto National Forest) Richland Communities

Length of area surveyed: 0.04 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia

Average height of canopy (Do not include a range): 5 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

*survey times are for full morning, not just this patch. Times are in standard.
4 seen during survey day

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase II - De Palma State CA County Riverside
 USGS Quad Name Alberhill Elevation 365 (meters)
 Creek, River, Wetland, or Lake Name Unnamed
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 459298 N 3733470 UTM Datum NAD27 (See instructions)
 Stop: E 459180 N 3733308 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Observer(s)	Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.
Survey # 1	Date 15 May	Observer(s) Stephen J. Myers	Start 0510 Stop 0955 4.75 Total hrs	0	0	0	N	Δ Brown-headed cowbird (BHCO) see comments	# Birds Sex UTM E UTM N
Survey # 2	Date 12 Jun	Observer(s) Green	Start 0815 Stop 1000 0920 3.25 Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Survey # 3	Date 13 Jun	Observer(s) Green	Start 0625 Stop 0935 3h 10m Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Survey # 4	Date 26 Jun	Observer(s) Chet McGaugh	Start 0450 Stop 1000 5h 10m Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Survey # 5	Date 6 Jul	Observer(s) McGaugh	Start 0550 Stop 1000 4h 10m Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Overall Site Summary			Total Adult Residents		Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings.			0		0	0	0	If yes, report color combination(s) in the comments section on back of form and report to USFWS.	
Be careful not to double count individuals.			0		0	0	0		
Total Survey Hrs 20.5			0		0	0	0		

Reporting Individual John F. Green Date Report Completed 27 July 2012 (draft)
 US Fish and Wildlife Service Permit # TE054011-5 State Wildlife Agency Permit # SC-001951 attachment - all
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records. Surveyors

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley-Ivyglen, Phase II - De Palma Date Report Completed 27 July 2012 (draft)
 Was this site surveyed in a previous year? Yes ☒ No ☐ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☒ No ☐ Not Applicable ☐
 If site name is different, what name(s) was used in the past? De Palma Outlet, Survey Area 5
 If site was surveyed last year, did you survey the same general area this year? Yes ☒ No ☐ If no, summarize below.
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below.

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

Length of area surveyed: 0.2 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia, Quercus agrifolia

Average height of canopy (Do not include a range): 10 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

*survey times are for full morning, not just this patch. Times are in standard.
4 seen during survey day

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase II - Indian Truck Trail Outliers State CA County Riverside
 USGS Quad Name Alberhill and Lake Mathews Elevation 345 (meters)
 Creek, River, Wetland, or Lake Name Unnamed
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 458285 N 3734226 UTM Datum NAD27 (See instructions)
 Stop: E 458625 N 3734337 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Observer(s)	Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.																																
Survey # 1	Date <u>15 May</u>	Observer(s) <u>Stephen J. Myers</u>	Start <u>0510</u> Stop <u>0955</u> Total hrs <u>4.75</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>A Brown-headed Cowbird (BHC0)</u> <u>see comments</u>	<table border="1"> <tr> <th># Birds</th> <th>Sex</th> <th>UTM E</th> <th>UTM N</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	# Birds	Sex	UTM E	UTM N																												
# Birds	Sex	UTM E	UTM N																																						
Survey # 2	Date <u>12 Jun</u>	Observer(s) <u>Green</u>	Start <u>0815</u> Stop <u>1000</u> Total hrs <u>3.25</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>—</u>	<table border="1"> <tr> <th># Birds</th> <th>Sex</th> <th>UTM E</th> <th>UTM N</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	# Birds	Sex	UTM E	UTM N																												
# Birds	Sex	UTM E	UTM N																																						
Survey # 3	Date <u>13 Jun</u>	Observer(s) <u>Green</u>	Start <u>0625</u> Stop <u>0935</u> Total hrs <u>3h 10m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>—</u>	<table border="1"> <tr> <th># Birds</th> <th>Sex</th> <th>UTM E</th> <th>UTM N</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	# Birds	Sex	UTM E	UTM N																												
# Birds	Sex	UTM E	UTM N																																						
Survey # 4	Date <u>26 Jun</u>	Observer(s) <u>Chet McGough</u>	Start <u>0450</u> Stop <u>1000</u> Total hrs <u>5h 10m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>—</u>	<table border="1"> <tr> <th># Birds</th> <th>Sex</th> <th>UTM E</th> <th>UTM N</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	# Birds	Sex	UTM E	UTM N																												
# Birds	Sex	UTM E	UTM N																																						
Survey # 5	Date <u>6 Jul</u>	Observer(s) <u>McGough</u>	Start <u>0550</u> Stop <u>1000</u> Total hrs <u>4h 10m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>—</u>	<table border="1"> <tr> <th># Birds</th> <th>Sex</th> <th>UTM E</th> <th>UTM N</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	# Birds	Sex	UTM E	UTM N																												
# Birds	Sex	UTM E	UTM N																																						
Overall Site Summary			Total Adult Residents		Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																																	
Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings.								If yes, report color combination(s) in the comments section on back of form and report to USFWS.																																	
Be careful not to double count individuals.																																									
Total Survey Hrs <u>20.5</u>																																									

Reporting Individual John F. Green Date Report Completed 27 July 2012 (draft)
 US Fish and Wildlife Service Permit # TE054011-5 State Wildlife Agency Permit # SC-001951 attachment-all
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records. Surveyors

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley-Ivyglen, Phase II - Indian Truck Trail Outliers Date Report Completed 27 July 2012 (draft)
 Was this site surveyed in a previous year? Yes * No Unknown
 Did you verify that this site name is consistent with that used in previous years? Yes ✓ No Not Applicable
 If site 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 below.
 Did you survey the same general area during each visit to this site this year? Yes ✓ No If no, summarize below.
* Smaller survey area in previous years
 Management Authority for Survey Area: Federal Municipal/County State Tribal Private
 Name of Management Entity or Owner (e.g., Tonto National Forest) Unknown

Length of area surveyed: 0.35 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ✓ Native broadleaf plants (entirely or almost entirely, > 90% native)
 Mixed native and exotic plants (mostly native, 50 - 90% native)
 Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
 Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia
Quercus agrifolia

Average height of canopy (Do not include a range): 9 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

* survey times are for full morning, not just this patch. Times are in standard.

4 seen during survey day

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase II - Yard State CA County Riverside
 USGS Quad Name Lake Mathews Elevation 320 (meters)
 Creek, River, Wetland, or Lake Name Unnamed
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 457791 N 3734938 UTM Datum NAD27 (See instructions)
 Stop: E 457767 N 3734904 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	2012						GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.				
Observer(s) (Full Name)	Date (m/d/y) Survey time * see comments	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	# Birds	Sex	UTM E	UTM N	
Survey # 1 Observer(s) Stephen J. Myers TE 804203-9	Date 15 May Start 0510 Stop 0755 4.75 Total hrs	0	0	0	N	A Brown-headed cowbird (BHCO) see comments					
Survey # 2 Observer(s) Green	Date 12 Jun Start 0815 Stop 0920 3.25 Total hrs	0	0	0	N	—					
Survey # 3 Observer(s) Green	Date 13 Jun Start 0625 Stop 0935 3h 10m Total hrs	0	0	0	N	—					
Survey # 4 Observer(s) Chet McGough TE 836517-6	Date 26 Jun Start 0450 Stop 1000 5h 10m Total hrs	0	0	0	N	—					
Survey # 5 Observer(s) McGough	Date 6 Jul Start 0550 Stop 1000 4h 10m Total hrs	0	0	0	N	—					
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs 20.5		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.					
		0	0	0	0						

Reporting Individual John F. Green Date Report Completed 27 July 2012 (draft)
 US Fish and Wildlife Service Permit # TE054011-5 State Wildlife Agency Permit # SC-001951 attachment - all
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records. surveys

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley-Ivyglen, Phase II - Yard Date Report Completed 27 July 2012 (draft)
 Was this site surveyed in a previous year? Yes ☒ No ☐ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☒ No ☐ Not Applicable ☐
 If site name is different, what name(s) was used in the past? The Yard Outlier, Survey Area 7
 If site was surveyed last year, did you survey the same general area this year? Yes ☒ No ☐ If no, summarize below.
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below.

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

Length of area surveyed: 0.05 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia

Average height of canopy (Do not include a range): 5 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

*survey times are for full morning, not just this patch. Times are in standard.

4 seen during survey day

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase II - El Herrano outliers State CA County Riverside
 USGS Quad Name Lake Mathews Elevation 315 (meters)
 Creek, River, Wetland, or Lake Name Unnamed
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 457282 N 3735400 UTM Datum NAD27 (See instructions)
 Stop: E 457527 N 3735332 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	2012						GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.				
Observer(s) (Full Name)	Date (m/d/y) Survey time * see comments	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	# Birds	Sex	UTM E	UTM N	
Survey # 1 Observer(s) Stephen J. Myers TE 804203-9	Date 15 May Start 0510 Stop 0955 4.75 Total hrs	0	0	0	N	A Brown-headed Cowbird (BHCO) see comments					
Survey # 2 Observer(s) Green	Date 12 Jun Start 0815 Stop 0920 3.25 Total hrs	0	0	0	N	—					
Survey # 3 Observer(s) Green	Date 13 Jun Start 0625 Stop 0935 3h 10m Total hrs	0	0	0	N	—					
Survey # 4 Observer(s) Chet McGough TE 836517-6	Date 26 Jun Start 0450 Stop 1000 5h 10m Total hrs	0	0	0	N	—					
Survey # 5 Observer(s) McGough	Date 6 Jul Start 0550 Stop 1000 4h 10m Total hrs	0	0	0	N	—					
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs 20.5		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.					
		0	0	0	0						

Reporting Individual John F. Green Date Report Completed 27 July 2012 (draft)
 US Fish and Wildlife Service Permit # TE054011-5 State Wildlife Agency Permit # SC-001951 attachment-
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records. all surveys

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley-Ivyglen, Phase II - El Herrano Antlers Date Report Completed 27 July 2012 (draft)
 Was this site surveyed in a previous year? Yes * No ___ Unknown ___
 Did you verify that this site name is consistent with that used in previous years? Yes ✓ No ___ Not Applicable ___
 If site name is different, what name(s) was used in the past? El Herrano Antlers Survey Area 9
 If site was surveyed last year, did you survey the same general area this year? Yes * No ___ If no, summarize below.
 Did you survey the same general area during each visit to this site this year? Yes ✓ No ___ If no, summarize below.
*Larger area surveyed this year
 Management Authority for Survey Area: Federal ___ Municipal/County ___ State ___ Tribal ___ Private ___
 Name of Management Entity or Owner (e.g., Tonto National Forest) Unknown

Length of area surveyed: 0.3 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ✓ Native broadleaf plants (entirely or almost entirely, > 90% native)
 ___ Mixed native and exotic plants (mostly native, 50 - 90% native)
 ___ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
 ___ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia

Average height of canopy (Do not include a range): 7 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

*survey times are for full morning, not just this patch. Times are in standard.
4 seen during survey day

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

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

Attach additional sheets if necessary.

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase II-Mayhew Outliers State CA County Riverside
 USGS Quad Name Lake Mathews Elevation 320 (meters)
 Creek, River, Wetland, or Lake Name Unnamed
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 456519 N 3735690 UTM Datum NAD27 (See instructions)
 Stop: E 456622 N 3735609 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	2012						GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.				
Observer(s) (Full Name)	Date (m/d/y) Survey time * see comments	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	# Birds	Sex	UTM E	UTM N	
Survey # 1 Observer(s) Stephen J. Myers TE 804203-9	Date 15 May Start 0510 Stop 0955 4.75 Total hrs	0	0	0	N	A Brown-headed Cowbird (BHCO) see comments					
Survey # 2 Observer(s) Green	Date 12 Jun Start 0815 Stop 0920 3.25 Total hrs	0	0	0	N	—					
Survey # 3 Observer(s) Green	Date 13 Jun Start 0625 Stop 0935 3h 10m Total hrs	0	0	0	N	—					
Survey # 4 Observer(s) Chet McGough TE 836517-6	Date 26 Jun Start 0450 Stop 1000 5h 10m Total hrs	0	0	0	N	—					
Survey # 5 Observer(s) McGough	Date 6 Jul Start 0550 Stop 1000 4h 10m Total hrs	0	0	0	N	—					
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs <u>20.5</u>		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.					
		0	0	0	0						

Reporting Individual John F. Green Date Report Completed 27 July 2012 (draft)
 US Fish and Wildlife Service Permit # TE054011-5 State Wildlife Agency Permit # SC-001991 attachment-
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records. all surveys

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley-Ivyglen, Phase II - Mayhew Outliers Date Report Completed 27 July 2012 (draft)
 Was this site surveyed in a previous year? Yes ☐ No ☒ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☐ No ☐ Not Applicable ☒
 If site name is different, what name(s) was used in the past? N/A
 If site was surveyed last year, did you survey the same general area this year? Yes ☐ No ☐ If no, summarize below. N/A
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below.
 Management Authority for Survey Area: Federal ☐ Municipal/County ☐ State ☐ Tribal ☐ Private ☐
 Name of Management Entity or Owner (e.g., Tonto National Forest) Unknown

Length of area surveyed: 0.2 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia

Average height of canopy (Do not include a range): 5 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

*survey times are for full morning, not just this patch. Times are in standard.
Δ seen during survey day

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase II - The Basin State CA County Riverside
 USGS Quad Name Lake Mathews Elevation 320 (meters)
 Creek, River, Wetland, or Lake Name Unnamed
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 456189 N 3735514 UTM Datum NAD27 (See instructions)
 Stop: E 456184 N 3735439 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	2012						GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.				
Observer(s) (Full Name)	Date (m/d/y) Survey time * see comments	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	# Birds	Sex	UTM E	UTM N	
Survey # 1 Observer(s) Stephen J. Myers TE 804203-9	Date 15 May Start 0510 Stop 0955 4.75 Total hrs	0	0	0	N	▲ Brown-headed Cowbird (BHCO) see comments					
Survey # 2 Observer(s) Green	Date 12 Jun Start 0815 Stop 0920 3.25 Total hrs	0	0	0	N	—					
Survey # 3 Observer(s) Green	Date 13 Jun Start 0625 Stop 0935 3h 10m Total hrs	0	0	0	N	—					
Survey # 4 Observer(s) Chet McGough TE 836517-6	Date 26 Jun Start 0450 Stop 1000 5h 10m Total hrs	0	0	0	N	—					
Survey # 5 Observer(s) McGough	Date 6 Jul Start 0550 Stop 1000 4h 10m Total hrs	0	0	0	N	—					
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs <u>20.5</u>		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.					
		0	0	0	0						

Reporting Individual John F. Green Date Report Completed 27 July 2012 (draft)
 US Fish and Wildlife Service Permit # TE054011-5 State Wildlife Agency Permit # SC-001951 attachment - all
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records. Surveyors

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley-Ivyglen, Phase II - The Basin Date Report Completed 27 July 2012 (draft)
 Was this site surveyed in a previous year? Yes ☒ No ☐ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☒ No ☐ Not Applicable ☐
 If site name is different, what name(s) was used in the past? The Basin Outlier, Survey Area 10
 If site was surveyed last year, did you survey the same general area this year? Yes ☒ No ☐ If no, summarize below.
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below.

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

Length of area surveyed: 0.1 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia

Average height of canopy (Do not include a range): 5 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

*survey times are for full morning, not just this patch. Times are in standard.
Δ seen during survey day

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase II-Ternescal Wash State CA County Riverside
 USGS Quad Name Lake Mathews Elevation 310 (meters)
 Creek, River, Wetland, or Lake Name Ternescal Wash
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 456827 N 3735936 UTM Datum NAD27 (See instructions)
 Stop: E 458020 N 3734720 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Survey time				If Yes, number of nests		# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) <u>Chet McGaugh</u> TE <u>836517-6</u>	Date <u>15 May</u> Start <u>0525</u> Stop <u>0950</u> Total hrs <u>4h, 25m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>—</u>				
Survey # 2 Observer(s) <u>Stephen J. Myers</u> TE <u>804203-9</u>	Date <u>4 Jun</u> Start <u>0525</u> Stop <u>0905</u> Total hrs <u>3h, 40m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>One Brown-headed cowbird (BHCO)</u>				
Survey # 3 Observer(s) <u>Green</u>	Date <u>14 Jun</u> Start <u>0620</u> Stop <u>0840</u> Total hrs <u>2h, 20m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>—</u>				
Survey # 4 Observer(s) <u>Myers</u>	Date <u>25 Jun</u> Start <u>0645</u> Stop <u>0855</u> Total hrs <u>4h, 10m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>one BHCO</u>				
Survey # 5 Observer(s) <u>Green</u>	Date <u>5 Jul</u> Start <u>0535</u> Stop <u>0845</u> Total hrs <u>3h, 10m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>—</u>				
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. Total Survey Hrs <u>17.75</u>		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>					

Reporting Individual John F. Green Date Report Completed 27 July 2012 (draft)
 US Fish and Wildlife Service Permit # TE054011-5 State Wildlife Agency Permit # SC-001951 attachment - Green,
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records. Myers, & McGaugh

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley-Ivyglen, Phase II ~ Ternesca 1 Wash Date Report Completed 27 July 2012 (draft)
 Was this site surveyed in a previous year? Yes ☒ No ☐ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☒ No ☐ Not Applicable ☐
 If site name is different, what name(s) was used in the past? Ternesca 1 Outlier (#8) Old Road Outlier (#6)
 If site was surveyed last year, did you survey the same general area this year? Yes ☐ No ☒ If no, summarize below. ☒
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below. ☐
 * A smaller area was surveyed in previous years
 Management Authority for Survey Area: Federal ☐ Municipal/County ☐ State ☐ Tribal ☐ Private ☐
 Name of Management Entity or Owner (e.g., Tonto National Forest) Unknown

Length of area surveyed: 1.7 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Populus fremontii

Average height of canopy (Do not include a range): 15 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

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

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

Attach additional sheets if necessary

Yellow-Billed Cuckoo (YBCU) Survey Detection Form

Page 1 of 1

☐ Non-Survey Detection (check box)

☒ Total YBCU Detected

Site Code: <u>VIG Phase II</u>	Site Name: <u>Temesca Wash</u>	Survey Period: <u>1</u>	Visit #: <u>1</u>	Date (mm/dd/yy): <u>06/25/12</u>
River Drainage: <u>Temesca Wash</u>	State: <u>CA</u>	County: <u>Riverside</u>	Observers: <u>Stephen J. Myers</u>	
Survey Start Time: <u>0445 PST</u>	Wind: <u>0-3 mph</u>	cloud cover: <u>0 %</u>	Precip: <u>0</u>	Noise: <u>0</u>
Survey Start Time: <u>0855 PST</u>	Wind: <u>0-3 mph</u>	cloud cover: <u>0 %</u>	Precip: <u>0</u>	Noise: <u>0</u>
GPS #: <u>NAD 27</u>	Start Easting: <u>4 5 7 9 4 5</u>	Start Northing: <u>3 7 3 5 1 4 2</u>	GPS Acc. (m): <u>—</u>	
Zone: <u>11</u>	Stop Easting: <u>4 5 6 8 3 1</u>	Stop Northing: <u>3 7 3 5 9 5 2</u>	GPS Acc. (m): <u>—</u>	

Point Start Time PST	UTM Coordinates												Waypoint Number	YBCU Det #	Time of Detection	Detection Type	Compass Bearing	Estimated Distance (m)	Est. Dist. Acc.	Vocal Code	Behavior / Breeding	Note #
	Easting						Northing															
0500	4	5	7	8	2	5	3	7	3	5	1	9	6	1								
0520	4	5	7	7	4	7	3	7	3	5	2	5	6	2								
0540	4	5	7	6	8	2	3	7	3	5	3	2	6	3								
0620	4	5	7	3	0	6	3	7	3	5	6	7	9	4								
0640	4	5	7	2	2	4	3	7	3	5	7	1	4	5								
0700	4	5	7	1	2	0	3	7	3	5	7	3	5	6								
0720	4	5	7	0	2	5	3	7	3	5	7	7	0	7								
0740	4	5	6	9	6	2	3	7	3	5	8	3	5	8								
0800	4	5	6	8	9	1	3	7	3	5	9	0	4	9								

WIND		RAIN		CICADA		BEHAVIOR		BEHAVIOR		BREEDING		VOCALIZATION		CLOUD COVER
	CODE		CODE		CODE		CODE		CODE		CODE		CODE	
calm	0	none	0	0	0	No visual	NV	Catches Prey	CP	Copulation	COP	Contact	CON	0-100%
Smoke drifts	1	mist	1	1	1	Sitting	ST	Carry Food	CF	Fledgling	FL	Coo	COO	
Felt on face	2	drizzle	2	2 to 4	2	Forages	FO	Eats Food	EF	Brooding	BR	Knock/Alarm	ALA	
Leaves move	3	rain	3	5 to 10	3	Preen	PRE	At Nest	AN	Incubating	IN	Juvenile Calls	JCON	
Small branches	4	Heavy rain	4	11 to 19	4	Flies	FLY	Juvenile	JUV	Feeds Young	FY	Other voc	VO	
Small trees move	5	snow	5	20+	5	Distraction Display	DD			Carry Nest Material	CN	V Exchange	VEX	

	Date	Initials
Data Entry:		
Data Proof:		
Data Scan :		

Yellow-Billed Cuckoo (YBCU) Survey Detection Form

Page 1 of 1☐ Non-Survey Detection (check box)

☒ Total YBCU Detected

Site Code: <u>VIG Phase II</u>	Site Name: <u>Temescal Wash</u>	Survey Period: <u>2</u>	Visit #: <u>1</u>	Date (mm/dd/yy): <u>07/05/12</u>
River Drainage: <u>Temescal Wash</u>	State: <u>CA</u>	County: <u>Riverside</u>	Observers: <u>John F. Green</u>	
Survey Start Time: <u>0635 PDT</u>	Wind: <u>1-3 mph</u>	cloud cover: <u>100 %</u>	Precip: <u>0</u>	Noise: <u>0</u>
Survey Start Time: <u>0945 PDT</u>	Wind: <u>1-3 mph</u>	cloud cover: <u>80 %</u>	Precip: <u>0</u>	Noise: <u>0</u>
GPS #: <u>NAD 27</u>	Start Easting: <u>4 5 7 9 4 5</u>	Start Northing: <u>3 7 3 5 1 4 2</u>	GPS Acc. (m): <u>—</u>	
Zone: <u>11</u>	Stop Easting: <u>4 5 6 8 3 1</u>	Stop Northing: <u>3 7 3 5 9 5 2</u>	GPS Acc. (m): <u>—</u>	
			Temp: <u>63°F</u>	Humidity: <u>low</u>
			Temp: <u>68°F</u>	Humidity: <u>low</u>

[illegible]

Notes:

	Date	Initials
Data Entry:		
Data Proof:		
Data Scan :		

Yellow-Billed Cuckoo (YBCU) Survey Detection Form

Page 1 of 1

☐ Non-Survey Detection (check box)

☒ Total YBCU Detected

Site Code: <u>VIG Phase II</u>	Site Name: <u>Temescal Wash</u>	Survey Period: <u>3</u>	Visit #: <u>1</u>	Date (mm/dd/yy): <u>07/19/12</u>
River Drainage: <u>Temescal Wash</u>	State: <u>CA</u>	County: <u>Riverside</u>	Observers: <u>John F. Green</u>	
Survey Start Time: <u>0650 PDT</u>	Wind: <u>1-2 mph</u>	cloud cover: <u>10%</u>	Precip: <u>0</u>	Noise: <u>0</u>
Survey Start Time: <u>0930 PDT</u>	Wind: <u>2-7 mph</u>	cloud cover: <u>5%</u>	Precip: <u>0</u>	Noise: <u>0</u>
GPS #: <u>NAD 27</u>	Start Easting: <u>4 5 7 9 4 5</u>	Start Northing: <u>3 7 3 5 1 4 2</u>	GPS Acc. (m): <u>—</u>	
Zone: <u>11</u>	Stop Easting: <u>4 5 6 8 3 1</u>	Stop Northing: <u>3 7 3 5 9 5 2</u>	GPS Acc. (m): <u>—</u>	
Temp: <u>76</u>		Humidity: <u>low</u>		
Temp: <u>87</u>		Humidity: <u>low</u>		

Point Start Time PDT	UTM Coordinates												Waypoint Number	YBCU Det #	Time of Detection	Detection Type	Compass Bearing	Estimated Distance (m)	Est. Dist. Acc.	Vocal Code	Behavior / Breeding	Note #
	Easting						Northing															
0700	4	5	7	8	2	5	3	7	3	5	1	9	6	1								
0715	4	5	7	7	4	7	3	7	3	5	2	5	6	2								
0730	4	5	7	6	8	2	3	7	3	5	3	2	6	3								
0750	4	5	7	3	0	6	3	7	3	5	6	7	9	4								
0805	4	5	7	2	2	4	3	7	3	5	7	1	4	5								
0820	4	5	7	1	2	0	3	7	3	5	7	3	5	6								
0835	4	5	7	0	2	5	3	7	3	5	7	7	0	7								
0850	4	5	6	9	6	2	3	7	3	5	8	3	5	8								
0905	4	5	6	8	9	1	3	7	3	5	9	0	4	9								

Notes: _____

	Date	Initials
Data Entry:		
Data Proof:		
Data Scan :		

Yellow-Billed Cuckoo (YBCU) Survey Detection Form

Page 1 of 1

☐ Non-Survey Detection (check box)

☒ Total YBCU Detected

Site Code: <u>VIG Phase II</u>	Site Name: <u>Temescal Wash</u>	Survey Period: <u>4</u>	Visit #: <u>1</u>	Date (mm/dd/yy): <u>08/02/12</u>
River Drainage: <u>Temescal Wash</u>	State: <u>CA</u>	County: <u>Riverside</u>	Observers: <u>Stephen J. Myers</u>	
Survey Start Time: <u>0540 PST</u>	Wind: <u>0-3</u>	cloud cover: <u>0 %</u>	Precip: <u>0</u>	Noise: <u>0</u>
Survey Start Time: <u>0845 PST</u>	Wind: <u>0-3</u>	cloud cover: <u>0 %</u>	Precip: <u>0</u>	Noise: <u>0</u>
GPS #: <u>NAD 27</u>	Start Easting: <u>4 5 7 9 4 5</u>	Start Northing: <u>3 7 3 5 1 4 2</u>	GPS Acc. (m): <u>—</u>	
Zone: <u>11</u>	Stop Easting: <u>4 5 6 8 3 1</u>	Stop Northing: <u>3 7 3 5 9 5 2</u>	GPS Acc. (m): <u>—</u>	

Point Start Time PST	UTM Coordinates												Waypoint Number	YBCU Det #	Time of Detection	Detection Type	Compass Bearing	Estimated Distance (m)	Est. Dist. Acc.	Vocal Code	Behavior / Breeding	Note #
	Easting						Northing															
0600	4	5	7	8	2	5	3	7	3	5	1	9	6	1								
0615	4	5	7	7	4	7	3	7	3	5	2	5	6	2								
0630	4	5	7	6	8	2	3	7	3	5	3	2	6	3								
0650	4	5	7	3	0	6	3	7	3	5	6	7	9	4								
0705	4	5	7	2	2	4	3	7	3	5	7	1	4	5								
0720	4	5	7	1	2	0	3	7	3	5	7	3	5	6								
0735	4	5	7	0	2	5	3	7	3	5	7	7	0	7								
0750	4	5	6	9	6	2	3	7	3	5	8	3	5	8								
0805	4	5	6	8	9	1	3	7	3	5	9	0	4	9								

Notes: _____

	Date	Initials
Data Entry:		
Data Proof:		
Data Scan :		

APPENDIX D

CERTIFICATION

**CERTIFICATION STATEMENT FOR THE
UNITED STATES FISH AND WILDLIFE SERVICE**

We certify that the information in the survey report and attached exhibits fully and accurately represents our work.

Signed: _____

Date: _____

Signed: _____

Date: _____

Signed: _____

Date: _____



DRAFT
**RESULTS OF FOCUSED SURVEYS FOR THE LEAST BELL'S VIREO,
SOUTHWESTERN WILLOW FLYCATCHER, AND
WESTERN YELLOW-BILLED CUCKOO FOR THE
VALLEY-IVYGLEN TRANSMISSION LINE PROJECT, PHASE 2
RIVERSIDE COUNTY, CALIFORNIA**

Prepared for:
Southern California Edison
2244 Walnut Grove Avenue
Rosemead, California 91770

Prepared by:
AMEC Environment & Infrastructure, Inc.
9210 Sky Park Court, Suite 200
San Diego, California 92123

September 2013
AMEC Project No. 1255400499

EXECUTIVE SUMMARY

At the request of Southern California Edison (SCE), AMEC Environment and Infrastructure, Inc. (AMEC) conducted focused surveys for the state and federally listed as endangered Least Bell's Vireo (*Vireo belli pusillus*) and Southwestern Willow Flycatcher (*Empidonax traillii extimus*) and the state listed as endangered Western Yellow-billed Cuckoo (*Coccyx americana occidentalis*). Surveys were conducted at suitable habitat patches along the Valley-Ivyglen Transmission Line Project, Phase 2 (see Appendix A, Figures 1-3). These patches are locations where these species have not been detected during previous focused surveys (AMEC 2007, 2009, 2010, 2011, 2012a, & 2012b). The surveys were performed to satisfy requirements of the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) (Riverside County 2003). Least Bell's Vireos were detected in three survey areas/patches. No Southwestern Willow Flycatchers or Western Yellow-billed Cuckoos were detected.

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ACRONYMS AND ABBREVIATIONS

AMEC	AMEC Environment & Infrastructure, Inc.
CDFG	California Department of Fish and Game
CDFW	California Department of Fish and Wildlife (new name as of 2013)
°F	degrees Fahrenheit
kV	kilovolt
LBV	Least Bell's Vireo
mph	miles per hour
MSHCP	Multiple Species Habitat Conservation Plan
PST	Pacific Standard Time
project	Valley-Ivyglen Transmission Line Project, Phase 1
ROW	right-of-way
SCE	Southern California Edison
study area	project ROW and 500-foot buffer from centerline of ROW
SWF	Southwestern Willow Flycatcher
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey
VIG	Valley-Ivyglen Subtransmission Line
WYBC	Western Yellow-billed Cuckoo

1.0 INTRODUCTION

At the request of Southern California Edison (SCE), AMEC Environment and Infrastructure, Inc. (AMEC) conducted focused surveys for the state and federally listed as endangered Least Bell's Vireo (LBV; *Vireo belli pusillus*) and Southwestern Willow Flycatcher (SWF; *Empidonax traillii extimus*) and the state listed as endangered Western Yellow-billed Cuckoo (WYBC; *Coccyx americana occidentalis*). Surveys were conducted at suitable habitat patches along the Valley-Ivyglen (VIG) Transmission Line Project, Phase 2 (see Appendix A, Figures 1-3). These patches are locations where none of these species have been detected during previous Valley-Ivyglen focused surveys for riparian birds (AMEC 2007, 2009, 2010, 2011, 2012a, & 2012b). The surveys were performed to satisfy requirements of the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP) (Riverside County 2003). This report presents the findings of those focused surveys.

1.1 Project Description

The proposed VIG project has been divided into two portions: eastern (Phase 1) and western (Phase 2). Phase 1 extends from the Valley Substation in the City of Menifee southwest to the corner of Collier Avenue and Third Street in the City of Lake Elsinore. The Valley Substation is located in the City of Menifee on the west side of Menifee Road between McLaughlin and Ethanac Roads. Phase 2 extends from that corner northwest to the Ivyglen Substation in the City of Corona. The proposed project is designed to improve reliability and meet projected electrical load requirements in western Riverside County, and involves the eventual construction of a new 115 kilovolt (kV) transmission line between the Valley and Ivyglen Substations.

The proposed Phase 2 VIG route is located entirely in western Riverside County, California and it traverses portions of unincorporated county and the cities of Corona and Lake Elsinore (See Appendix A, Figures 1 - 3). The route traverses portions of the Lake Elsinore, Lake Mathews, and Alberhill United States Geological Survey (USGS) 7.5-minute series topographic quadrangles (see Appendix A, Figure 2).

This report concerns focused surveys conducted within the Phase 2 portion of the project area; Phase 1 will not be discussed further. Appropriate habitat was surveyed along the proposed transmission line right-of-way (ROW) and a 500-foot buffer from the centerline of the proposed ROW (study area), with the exception of areas that already have established occurrences of LBV areas are shown on Figures 1 through 3 in Appendix A.

The study area is located within the Western Riverside County Multiple Species Habitat Conservation Plan (MSHCP). The MSHCP is a comprehensive, multi-jurisdictional Habitat Conservation Plan, which focuses on conservation of species and their associated habitats in western Riverside County (Riverside County 2003).

1.2 Species Information: Least Bell's Vireo

LBV is a small, migratory, insectivorous bird which occurs in willow-dominated riparian habitats. Although this bird is drab in plumage and can be secretive within its densely vegetated habitat, males are easy to detect on the breeding grounds due to their conspicuous and diagnostic song. Nesting habitat of this species is restricted to willow and/or mulefat dominated riparian scrub along permanent or nearly permanent streams (Grinnell and Miller 1944, Goldwasser 1978, Franzreb 1987, Garrett and Dunn 1981).

LBV were formerly widespread and common throughout low-lying riparian habitats of central and southern California, but are now restricted to a limited number of locations in southern California. Habitat reduction has contributed to this species' significant population declines. Nest parasitism by Brown-headed Cowbirds (*Molothrus ater*) has also seriously impacted reproductive success by LBV, as well as many other species which build cup nests (Goldwasser 1978). The population is slowly recovering as a result of habitat restoration and cowbird control efforts. LBV is listed as Endangered by the California Department of Fish and Game (CDFG) and by the United States Fish and Wildlife Service (USFWS) (USFWS 1986). A final determination of critical habitat was made in 1994 (USFWS 1994). The project area is not within designated critical habitat for the LBV.

1.3 Species Information: Southwestern Willow Flycatcher

The SWF is a small, brownish-olive flycatcher that was formerly considered a common summer resident in southern California's lowland willow thickets and in low elevation mountain canyons (Garrett and Dunn 1981). Following the large-scale invasion of southern California by Brown-headed Cowbirds in the 1920s, along with loss of willow riparian habitat, this subspecies was nearly extirpated from southern California. The Willow Flycatcher was listed by the State of California as endangered in 1990. The subspecies *E. t. extimus* (SWF) is listed as federally endangered (USFWS 1995). Critical habitat was designated for this species in 1997 (USFWS 1997), then revised and finalized again in 2005 (USFWS 2005), then revised and finalized again in 2013 (USFWS 2013). The project area is not within currently designated critical habitat for the SWF.

Surveys have revealed extant populations along the Santa Margarita and San Luis Rey Rivers in San Diego County, in the San Bernardino Mountains and along the Mojave River in San Bernardino County, the Santa Ynez River in Santa Barbara County, the Santa Clara River in Los Angeles and Ventura counties, the South Fork of the Kern River in Kern County (Unitt 1987, Marshall 2000), and the Prado Basin and San Timoteo Creek in western Riverside County (J. Pike, Orange County Water District; R. McKernan, San Bernardino County Museum: pers. comm.). This subspecies also persists in the Lower Colorado River Valley (Marshall 2000, R. McKernan, pers. comm.). Unlike LBVs, SWF populations do not appear to have gained any significant benefit from habitat restoration and cowbird control efforts.

The SWF breeds in dense riparian habitats near surface water or saturated soil. Plant composition and habitat structure can vary greatly depending on the site, but willows often make up much of the understory. Populations along the Colorado River are known to use thickets dominated by both native and nonnative plants (especially Salt-Cedar [*Tamarix* spp.]). Dense patches of understory vegetation are a critical component of occupied habitat (Sogge *et al.* 1997).

1.4 Species Information: Western Yellow-billed Cuckoo

The WYBC is an extremely rare bird in California, with less than 50 pairs found during a statewide survey in 1986-1987 and little indication of population improvement since. Most of California's Yellow-billed Cuckoos are found in two areas: along the Sacramento River between Red Bluff and Colusa, and along the South Fork Kern River near Weldon (Laymon 1998). There have also been some recent successes in WYBC occupation of restoration areas along the lower Colorado River in California. WYBC was listed as Endangered by the State of California in 1988.

WYBC are long distance migrants and return to California from their South American wintering areas in late May and June. Occupied riparian forests are usually larger than 25 acres. Detection of WYBC is difficult, as they have large home ranges in dense willow and cottonwood forests and call infrequently. Recorded playback of the species' calls is the recommended method for conducting surveys.

2.0 METHODS

2.1 Habitat Assessment

Areas considered to contain suitable habitat were identified along the Phase 2 VIG project route as below. All are recorded in UTM, Zone 11, NAD27:

- **Pasadena** consists of a habitat patch dominated by Mule Fat (*Baccharis salicifolia*) and willows (*Salix* spp.) (see Photo 1 in Appendix B). Drought and some disturbance prior to the survey season left this patch in very low quality condition for utilization by riparian birds. There was no surface water or saturation during the 2013 season. It is southwest of the intersection of Third and Pasadena Streets in the City of Lake Elsinore, on the USGS 7.5 minute *Lake Elsinore* quadrangle (see Appendix A: Figures 1, 2-1, and 3-1). The west end is at 468446E, 3726999N and the east end at 468529E, 3727010N. This is the one of two Phase 2 patches in the "Southeast" survey area, which also included patches along Phase 1 (see Table 1 below).
- **Lake Street** is primarily along an unnamed drainage. At the beginning of the 2013 survey season it was variously dominated by Mule Fat and willows and interspersed with short sections of unsuitable habitat. Gum trees (*Eucalyptus* sp.) are adjacent to the riparian habitat along much of the drainage. The north end of this survey also includes a short segment of Temescal Wash, which the unnamed drainage is tributary to. The survey area is just east of habitat in Temescal Wash known to have been occupied by LBV in the past. The downstream end (north) is located just northeast of the intersection of Temescal Canyon Road and Lake Street at 463659E, 3731899N. The upstream (south) end of the survey area is just east of the corner of Lake Street and Nichols Road at 464727E, 3730095N. Surface water or saturation was present, at least upstream, during the 2013 riparian bird surveys. The unnamed drainage is a USGS mapped intermittent blue line stream. Surveys were suspended after May 20th, following the discovery of vegetation removal within suitable habitats (Refer to C for notification letter to USFWS for suspension of surveys and Photos 2-4 in Appendix B. This area occurs on land mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle in the City of Lake Elsinore (see Appendix A: Figures 1, 2-2, and 3-2 through 3-4). This is one of two Phase 2 patches in the "Southeast" survey area, which also included patches along Phase 1 (see Table 1 below).
- **Horsethief East** is a riparian patch dominated intermittently by Fremont Cottonwoods (*Populus fremontii*), willows, and Mule Fat. See Photo 5 in Appendix B. It is located approximately 0.4 mile southeast of the intersection of De Palma and Horsethief Canyon Roads. The approximate north end of survey area is at 460892E, 3732717N and the south end is at 460718E, 3732467N. This unnamed drainage is a USGS mapped intermittent blue line stream which is now interrupted by an upstream housing development. Surface water was present throughout the season at the upstream (south) end of the drainage. This area occurs on unincorporated lands mapped on the USGS

7.5 minute *Alberhill, Calif.* quadrangle (see Appendix A: Figures 1, 2-2, and 3-5). Part of the “Northwest” survey area (see Table 1 below).

- **Horsethief West** is intermittently dominated by Mule Fat and willows. See Photo 6 in Appendix B. It is located approximately 0.15 mile southeast of the intersection of De Palma and Horsethief Canyon Roads. The approximate north end of survey area is at 460552E, 3732964N and the south end is at 460466E, 3732642N. This unnamed drainage has been highly modified and is now interrupted by development upstream. No surface water or saturation was visible at this site during the 2013 riparian birds surveys, and much of the riparian vegetation was exhibiting drought stress by the end of the season. This area occurs on land mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle (see Appendix A: Figures 1, 2-2, and 3-5). Part of the “Northwest” survey area (see Table 1 below).
- **De Palma** is a small riparian patch south of De Palma Road, approximately 0.5 mile southeast of the intersection of De Palma and Glen Eden Roads. See Photo 7 in Appendix B. The north end of this patch is riparian scrub (willows and Mule Fat) transitioning to oak woodlands to the southwest. Upstream rural residential may provide some moisture to this unnamed and unmapped drainage, but no surface water or saturation was visible at this site during the 2013 surveys, and much of the riparian vegetation was exhibiting drought stress by the end of the season. The approximate north end of survey area is at 459297E, 3733474N and the south end is at 459233E, 3733342N. This area occurs on land mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle (see Appendix A: Figures 1, 2C, and 3-6). Part of the “Northwest” survey area (see Table 1 below).
- **Indian Truck Trail** consists of several unnamed USGS mapped intermittent blueline streams as they converge at Temescal Wash as they approach and enter the wash as its tributaries. See Photo 8 in Appendix B. These are all near the intersection of Temescal Canyon Road and Indian Truck Trail in or near Corona city limits. Riparian habitat in these patches consists of Western Sycamore (*Platanus racemosa*), willows, Fremont Cottonwoods, Mule Fat, and Coast Live Oaks (*Quercus agrifolia*). Upstream development may provide some moisture to this drainage, but no surface water or saturation was visible during the survey season. The approximate west end of survey area is at 458302E, 3734223N and the east end is at 458725E, 3734336N. These patches occur on lands mapped on the USGS 7.5 minute *Alberhill, Calif.* and *Lake Mathews, Calif.* quadrangles (see Appendix A: Figures 1, 2C, and 3-7). Part of the “Northwest” survey area (see Table 1 below).
- **Yard** is a small riparian patch southwest of Temescal Canyon Road, approximately 0.3 mile south-southeast of El Hermano Road. See Photo 9 in Appendix B. The approximate west end of survey area is at 457767E, 3734904N and the east end is at 457791E, 3734938N. This area occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle in or near Corona city limits (see Appendix A: Figures 1, 2C, and 3-9). A patch of willows and Mule Fat occurs at this site. A grove of large gum trees is adjacent to the northeast of the riparian scrub. The site had some surface water during

most of the survey season. This site is on an unnamed USGS mapped intermittent blueline stream, with flow enhanced by runoff from upstream residential development. Part of the Northwest survey area (see Table 1 below).

- **El Hermano** is comprised of riparian patches southwest of the intersection of Temescal Canyon and El Hermano Roads. See Photo 10 in Appendix B. This area occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle in the City of Corona (see Appendix A: Figures 1, 2C, and 3-10). The approximate west end of survey area is at 457285E, 3735392N and the east end is at 457592E, 3735280N. The westernmost patch is dominated by willows and had surface water/saturation throughout the survey season. The other two patches consisted of Mule Fat and willows, but lacked surface water or saturated soils. This area is not mapped as a drainage but appears to be fed by runoff from housing developments on the other side of Interstate 15. Part of the “Northwest” survey area (see Table 1 below).
- **Mayhew** is two associated riparian patches just east of the intersection of Temescal Canyon and Mayhew Roads in the City of Lake Elsinore. See Photo 11 in Appendix B. This area occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Appendix A: Figures 1, 2C, and 3-11). The approximate west end of survey area is at 456519E, 3735684N and the east end is at 456625E, 3735620N. The two patches contain Mule Fat and willows, but lacked surface water or saturated soils. This area is not mapped as a drainage but the eastern patch is within natural drainage contours and appears to be fed by runoff from housing developments on the other side of Interstate 15. This drainage was once blocked by fill for a now abandoned railroad crossing, and passed through a culvert there, below our survey area. That fill and culvert were blown out by flooding (in 2011?). The western patch of this survey area appears to be an artificial basin that may have filled when water backed up against the former railroad crossing. Now that that obstacle is gone, this basin may become increasingly arid, but so far vegetation has persisted. Part of the “Northwest” survey area (see Table 1 below).
- **Campbell** consists of patches of riparian vegetation dominated by willows, sycamores, and Mule Fat. See Photo 12 in Appendix B. They are along an unnamed USGS mapped blueline stream, but are separated by Campbell Ranch Road. The drainage may gain some moisture from rural residences, but appears to be a largely natural system upstream of the survey area. No surface water was visible during the surveys, and vegetation east of Campbell Ranch Road was exhibiting drought stress. The survey area is at the intersection of Campbell Ranch Road and Indian Truck Trail in the City of Corona. The approximate north end of survey area is at 458002E, 3734212N and the south end is at 457767E, 3733981N. This area occurs on land mapped on the USGS 7.5 minute *Alberhill, Calif.* quadrangle (see Appendix A: Figures 1, 2C, and 3-8). Part of the “Campbell Ranch” survey area (see Table 1 below).
- **Fire Station** consists of two patches of riparian vegetation dominated by willows. See Photo 13 in Appendix B. They are along an unnamed USGS mapped blueline stream, but are separated by Campbell Ranch Road. Vegetation in the drainage appears to be

sustained by runoff from the large residential area immediately to the northwest. The survey area is at the intersection of Campbell Ranch Road and Mayhew Canyon Road (south end) adjacent to a fire station in the City of Corona. The approximate north end of survey area is at 457693E, 3734741N and the south end is at 457550E, 3734513N. This area occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Appendix A: Figures 1, 2C, and 3-8 through 3-9). Surface water was visible during the surveys. Part of the “Campbell Ranch” survey area (see Table 1 below).

- **Soapberry** consists of two patches of adjacent riparian vegetation dominated by willows and Mule Fats. See Photo 14 in Appendix B. They are in created basins which are not on USGS mapped bluelines. They appear to be sustained by runoff from the large residential area immediately to the south. All are on the north side of Campbell Ranch Road near its intersection with Soapberry Street in the City of Corona. The approximate east end of survey area is at 457529E, 3734889N and the west end is at 457135E, 3735200N. This area occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Appendix A: Figures 1, 2C, and 3-9). Some surface water was visible during the surveys. Part of the “Campbell Ranch” survey area (see Table 1 below).
- **Triplet** consists of three patches of adjacent riparian vegetation dominated by willows and Mule Fats. Two are on drainages not mapped as bluelines by the USGS, and the third is in a created basin, also not on a mapped blueline. All appear to be sustained by runoff from the large residential area immediately to the south. See Photo 15 in Appendix B. All are on the north side of Campbell Ranch Road near its intersection with Mayhew Canyon Road (north end) in the City of Corona. The approximate east end of survey area is at 456844E, 3735397N and the west end is at 456567E, 3735471N. This area occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Appendix A: Figures 1, 2C, and 3-11). Some surface water was visible during the surveys. Part of the “Campbell Ranch” survey area (see Table 1 below).
- **Basin** is in a detention basin/former surface mine southwest of Temescal Canyon Road, just south of its intersection with Campbell Ranch Road in the City of Corona. See Photo 16 in Appendix B. It is not a named or mapped drainage. The approximate north end of survey area is at 456189E, 3735514N and the south end is at 456207E, 3735393N. This area occurs on land mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle (see Appendix A: Figures 1, 2C, and 3-11). This patch contains willows, Mulefat, and Salt-Cedar (*Tamarix ramosissima*). No surface water or saturation was visible during the surveys, and the vegetation exhibited drought stress, especially late in the season. Part of the “Campbell Ranch” survey area (see Table 1 below).
- **Temescal Wash** is along the named USGS mapped intermittent blueline stream of the same name. See Photos 17 and 18 in Appendix B. It now appears to have perennial surface flow, presumably due to urban runoff. It contains quality cottonwood-willow riparian forest. This survey area occurs on lands mapped on the USGS 7.5 minute *Lake Mathews, Calif.* quadrangle in the City of Corona (see Appendix A: Figures 1, 2C, and 3-9 through 3-11). It is north and east of Temescal Canyon Road, in both directions from

its intersection with El Hermano Road. The approximate west end of survey area is at 456839E, 3735923N and the east end is at 457950E, 3735146N. This survey area was done by itself, not with other patches (see Table 1 below).

2.2 Survey Methodology

In accordance with the currently accepted survey protocol for the LBV (USFWS 2001), each site was surveyed eight times by AMEC Environment & Infrastructure, Inc. (AMEC) biologists. The LBV protocol requires surveys to be conducted at least 10 days apart from 10 April to 31 July. The SWF protocol requires five surveys, and that the first survey be performed from 15 May to 31 May, the next two surveys from 1 June to 24 June, and the final two surveys between 25 June and 17 July, with at least five days between surveys (Sogge et al. 2010). The SWF surveys were performed concurrently with LBV surveys. Suitable habitat for the WYBC was present only in the Temescal Canyon survey area. Surveys were conducted using the most recent version of the protocol available (Halterman, et al 2011). This protocol requires one survey in each of the following four periods: mid-late June, early-mid July, mid-late July, and early-mid August, with a minimum of 12 days between visits. The first three surveys were conducted concurrent with LBV and SWF surveys. Survey forms are provided in Appendix D.

Surveys consisted of slowly moving through the habitat while listening for the songs and calls of the target species. During the SWF and WYBC surveys, recordings of their vocalizations were broadcast as required by protocol. All bird species detected during the surveys were recorded in field notes (Appendix E).

To cover all of the habitat on Phase 2, each full survey "visit" took four person days (see Table 1). SWF surveys were performed by John F. Green and Stephen J. Myers under the respective authority of federal endangered species permits TE054011 and TE804203 WYBC were performed by Green and Myers under the authority of a CDFW Memorandum of Understanding (Refer to Appendix F for certification).. The survey areas are illustrated on Figure 3 (aerial photos) and Figure 2 (USFWS required topographic maps).

Table 1.
Survey Data

Date (2013)	Observer	Time (PST)	Temp. (°F)	Wind (mph)	Sky (% cover)
Southeast (Pasadena and Lake Street) [#]					
10 April	John F. Green	0545-0800	61-69	1-3	0
26 April	John F. Green	0500-0725	53-63	0	0
8 May	Stephen J. Myers	0455-0825	53-65	0-2	30-50
20 May †	John F. Green	0430-0635	55-65	1-4	0
3 June †	Stephen J. Myers	0700-0915	65-75	0-2	50-0
19 June †	John F. Green	0740-0850	70-76	1-2	0
3 July †	Stephen J. Myers	0445-0715	69-80	0	60-50
15 July †	Stephen J. Myers	0710-0855	86-91	0	0
Northwest (Horsethief East & West, De Palma, Indian Truck Trail, Yard, El Hermano, & Mayhew)					
16 April	John F. Green	0600-0920	55-73	0-2	50-35
29 April	Stephen J. Myers	0510-0925	56-71	0-5	100-0
15 May †	John F. Green	0450-0915	67-76	1-2	40-0
4 June †	John F. Green	0510-0905	61-74	1-2	100-60
20 June †	Stephen J. Myers	0440-0900	59-76	0-2	0
1 July †	John F. Green	0450-0840	77-89	0-2	60-90
16 July †	Stephen J. Myers	0445-0850	66-85	0-2	10-20
29 July	Stephen J. Myers	0500-0815	65-70	0-2	100-30
Campbell Ranch (Campbell, Fire Station, Soapberry, Triplet, & Basin)					
17 May †	John F. Green	0455-0800	61-70	1-3	100
28 May	Nathan Moorhatch	0432-0642	63-65	0-3	100
7 June †	Stephen J. Myers	0445-0840	58-70	0	100-0
17 June †	John F. Green	0550-0830	66-79	1-2	0
27 June †	Stephen J. Myers	0415-0805	67-92	0-2	0
9 July †	John F. Green	0530-0800	71-86	0-2	40-50
18 July	Stephen J. Myers	0415-0800	68-86	0-3	0
30 July	Stephen J. Myers	0510-0825	66-74	0-1	0
Temescal Wash					
16 April	Stephen J. Myers	0520-0950	50-61	0-3	50-80
30 April	John F. Green	0555-0910	57-64	1-4	100-70
15 May †	Stephen J. Myers	0455-0910	54-78	0-3	0
3 June †	John F. Green	0700-1000	68-74	0-4	100-0
17 June *	Stephen J. Myers	0425-0910	64-81	0-3	0
1 July *	Stephen J. Myers	0420-0830	76-87	0	90-70
15 July *	John F. Green	0515-0905	67-84	0-1	0
25 July	John F. Green	0550-0800	64-76	0-2	5-30
6 August	Stephen J. Myers	0430-0820	60-72	0-1	0

Notes: † LBV and SWF surveys conducted concurrently.

* LBV, SWF, and WYBC surveys conducted concurrently.

Surveys for SWFL were discontinued due to suitable habitat removal.

Unmarked surveys were for LBV only, except last Temescal survey which was for WYBC only.

3.0 RESULTS

3.1 Habitat Description

The five survey areas are all vegetated with plants typical of lowland riparian areas in Southern California, including willows (*Salix* spp.), Mule Fat (*Baccharis salicifolia*), Fremont Cottonwoods (*Populus fremontii*), and Western Sycamore (*Platanus racemosa*). Information specific to each patch is included in Section 2.1.

3.2 Survey Results

Ninety-seven bird species were detected during the 2013 Phase 2 riparian birds focused surveys. Among the most frequently detected species were the following birds that are typical of lowland riparian habitats in southern California: Mourning Dove (*Zenaida macroura*), Black-chinned Hummingbird (*Archilochus alexandri*), Nuttall's Woodpecker (*Picoides nuttallii*), Black Phoebe (*Sayornis nigricans*), Bushtit (*Psaltiriparus minimus*), House Wren (*Troglodytes aedon*), Yellow Warbler (*Setophaga petechia*), Common Yellowthroat (*Geothlypis trichas*), Song Sparrow (*Melospiza melodia*), and Lesser Goldfinch (*Spinus psaltria*).

3.3 Least Bell's Vireo

LBV were detected in the Temescal Wash, El Hermano, and Lake Street survey areas/patches (see Figures 3-2 through 3-3 and Figures 3-9 through 3-11). Only singing males were detected, breeding success was not determined.

3.4 Southwestern Willow Flycatcher

No SWF or any other subspecies of Willow Flycatcher were detected at any of the survey areas/patches.

3.5 Western Yellow-billed Cuckoo

No Yellow-billed Cuckoos were detected. Survey points are shown on Figures 3-9 through 3-11 in Appendix A.

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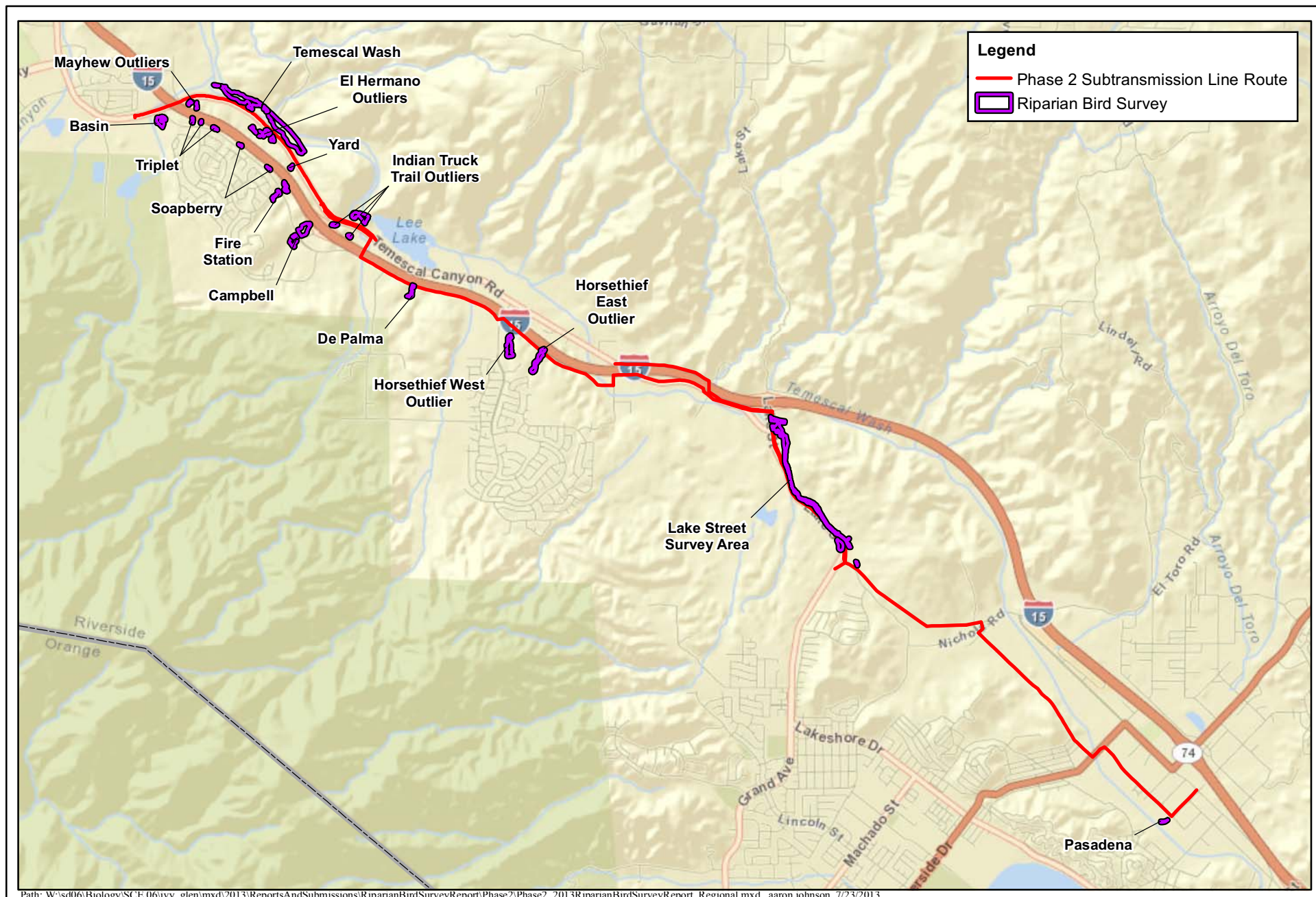
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APPENDIX A

FIGURES



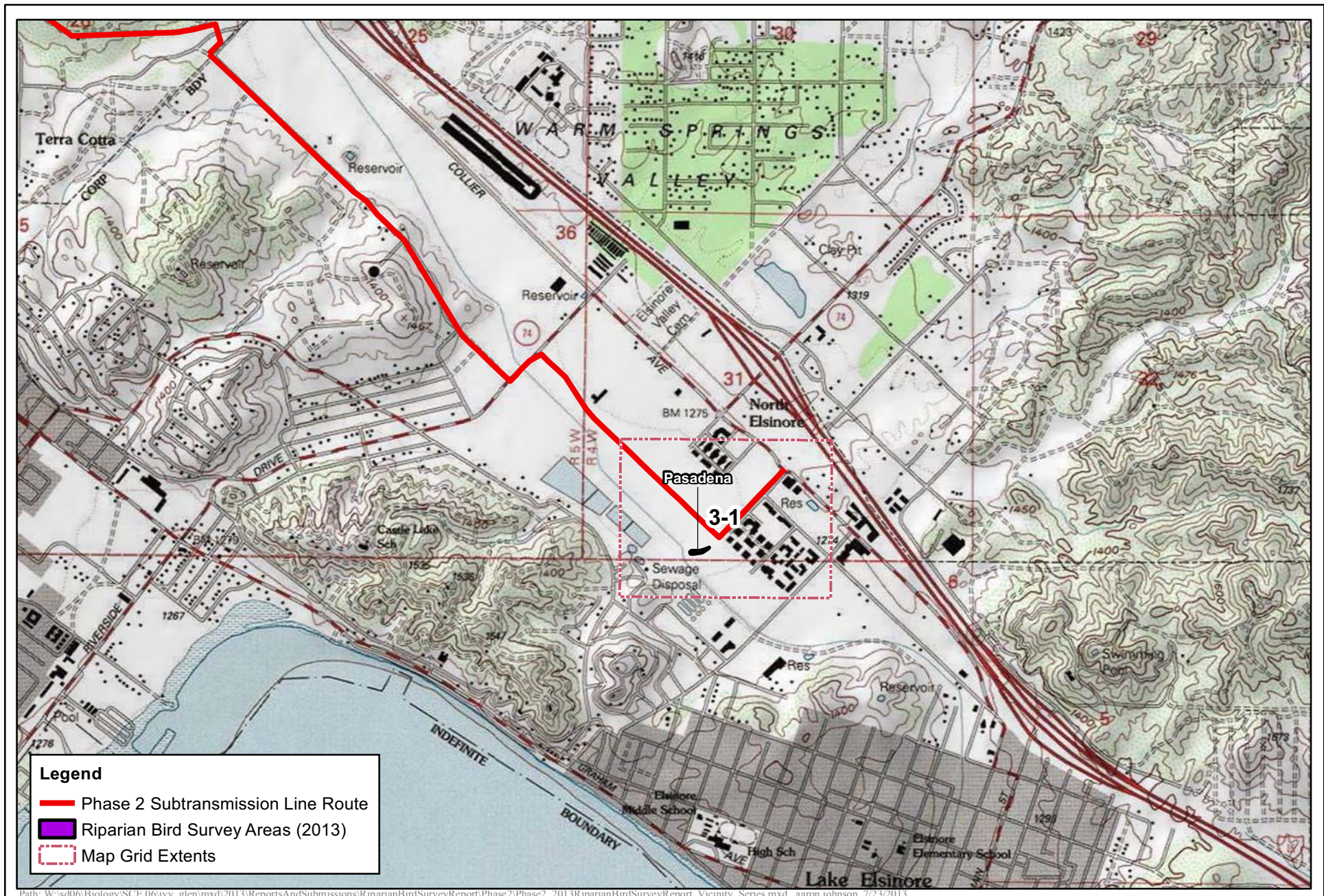
Regional Map
2013 Riparian Bird Focused Surveys
Valley-Ivyglen Subtransmission Line Project: Phase 2
Riverside County, CA

1 inch = 1 miles
 0 0.5 1 Miles



FIGURE

1



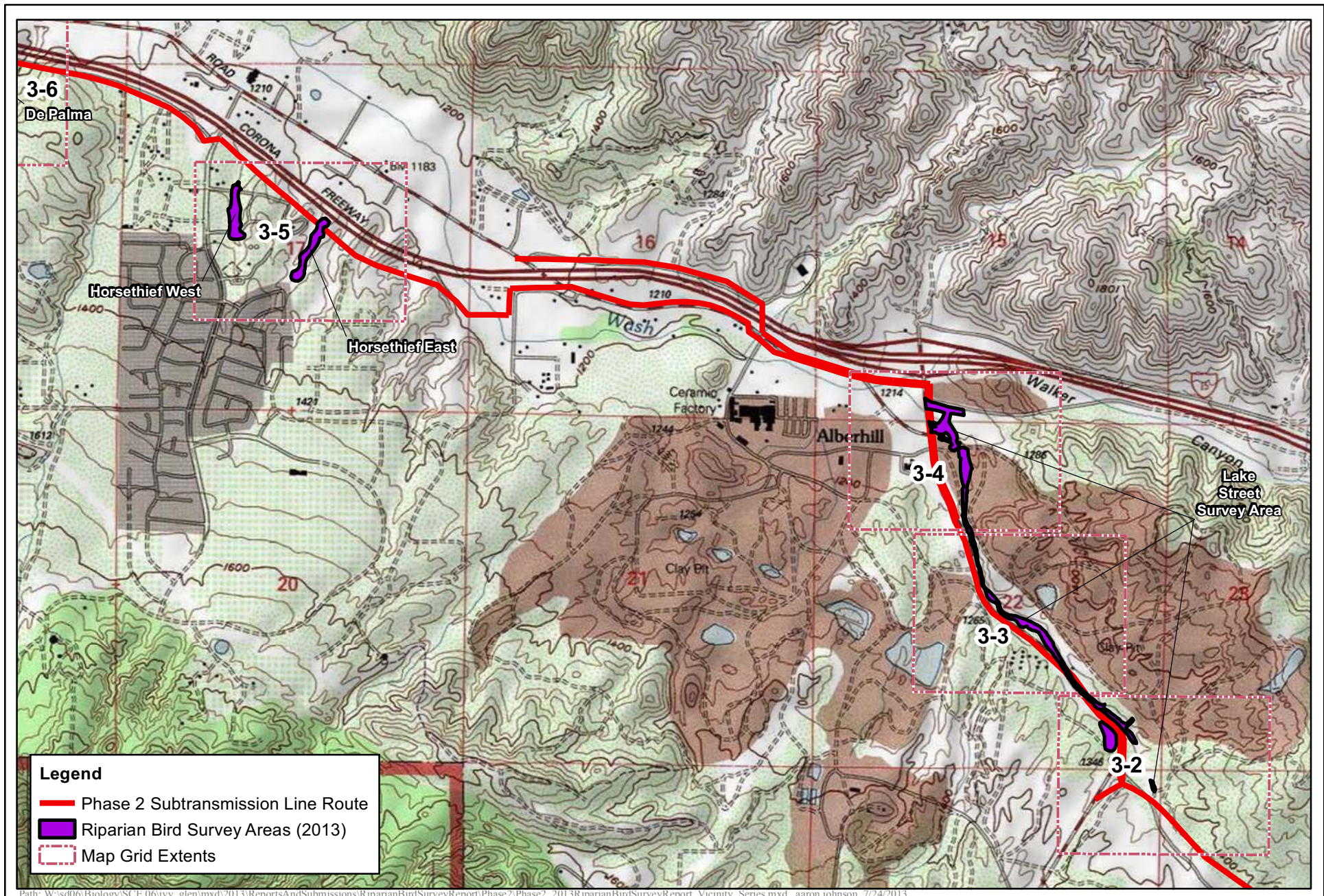
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2013 Riparian Bird Focused Surveys
Valley-Ivyglen Subtransmission Line Project: Phase 2
Riverside County, CA

1 inch = 2,000 feet
 0 1,000 2,000 Feet



FIGURE

2A



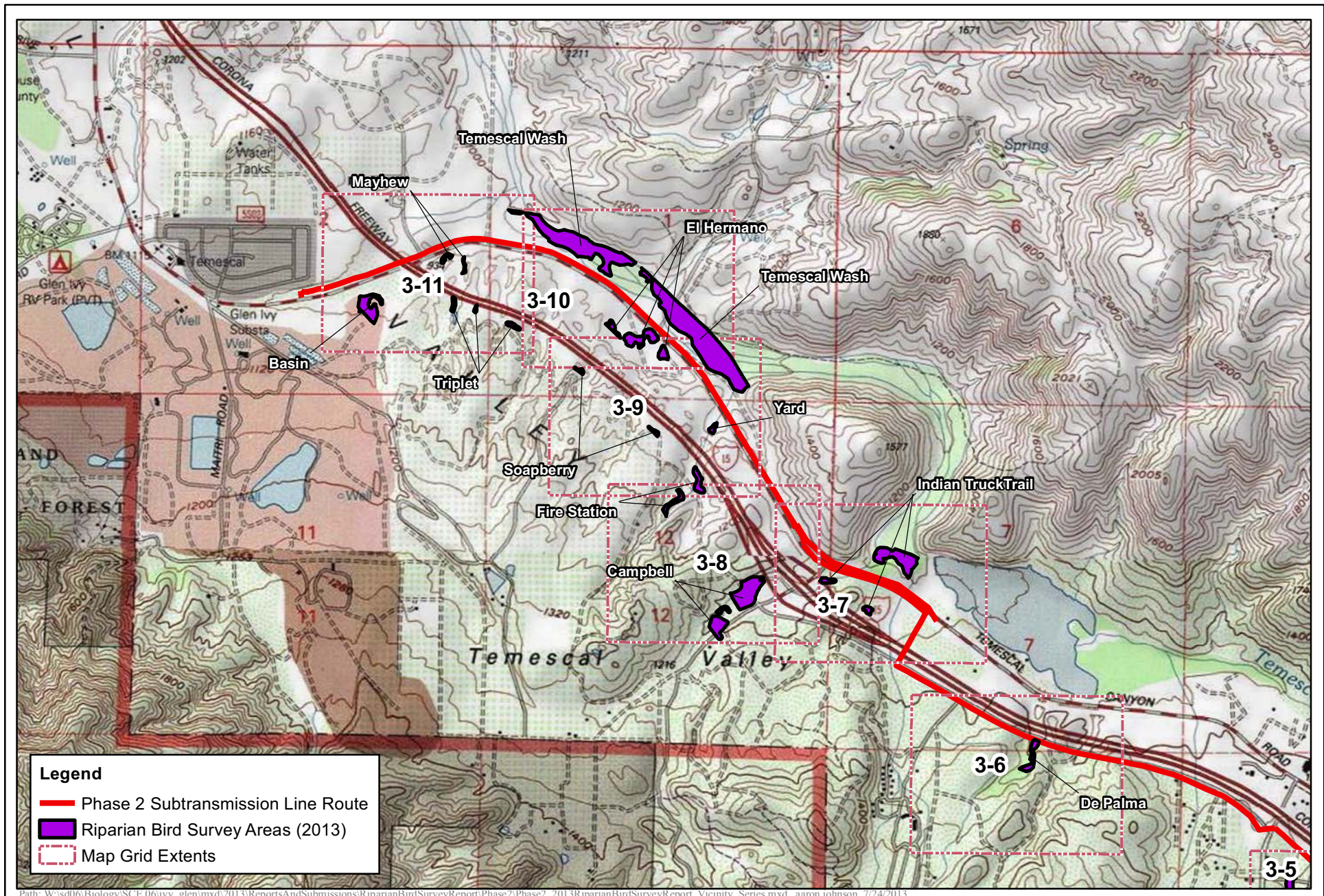
Project Location
2013 Riparian Bird Focused Surveys
Valley-Ivyglen Subtransmission Line Project: Phase 2
Riverside County, CA

1 inch = 2,000 feet
 0 1,000 2,000 Feet



FIGURE

2B



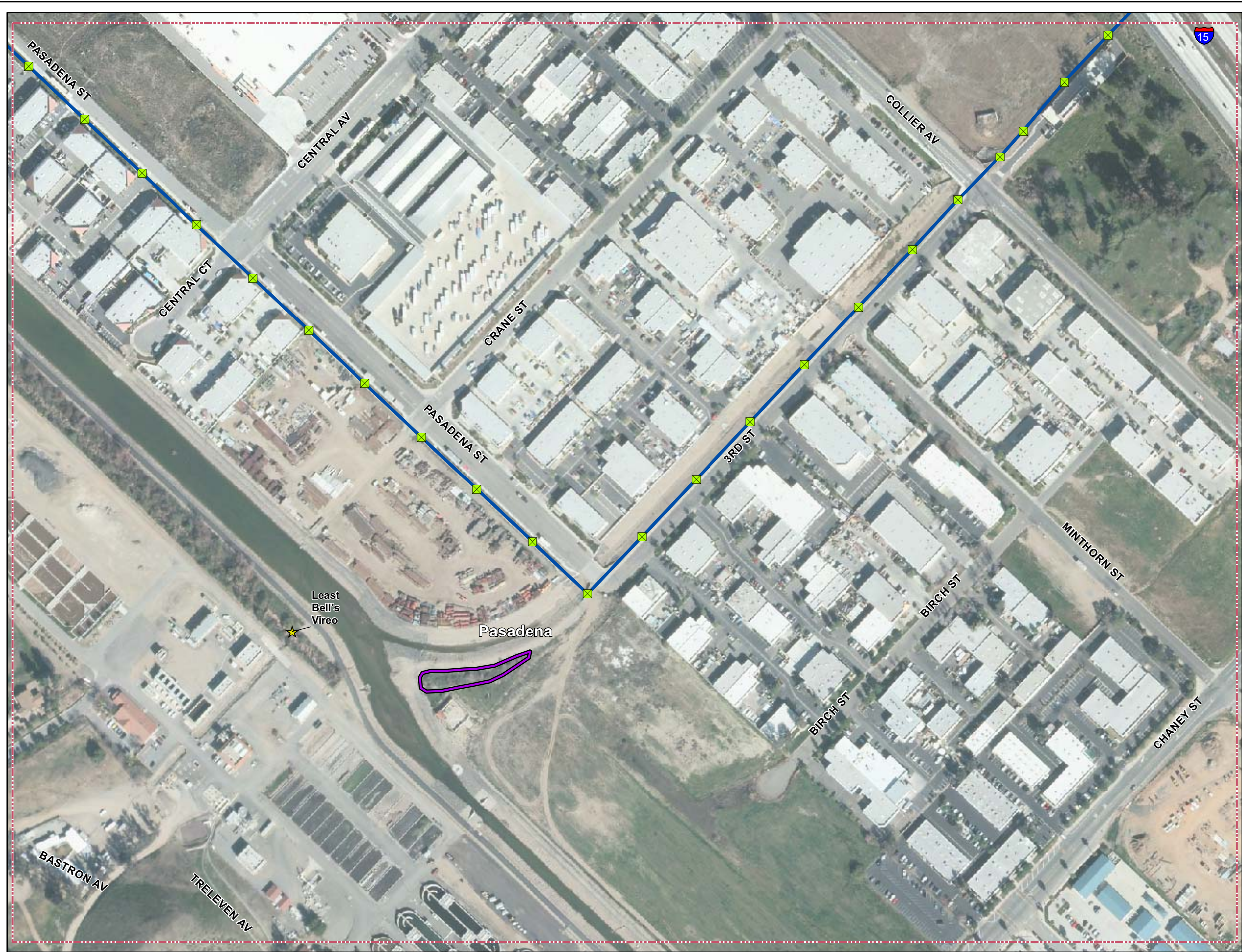
Project Location
2013 Riparian Bird Focused Surveys
Valley-Ivyglen Subtransmission Line Project: Phase 2
Riverside County, CA

1 inch = 2,000 feet
 0 1,000 2,000 Feet



FIGURE

2C



Legend

Project Features

- Pole Locations (7/16/2013)
- Subtransmission Line (7/16/2013)
- Western Yellow-billed Cuckoo Survey Locations
- Riparian Bird Survey Areas (2013)
- Map Grid Extents

Sensitive Species Data (AMEC)

- Sensitive Species (2013)

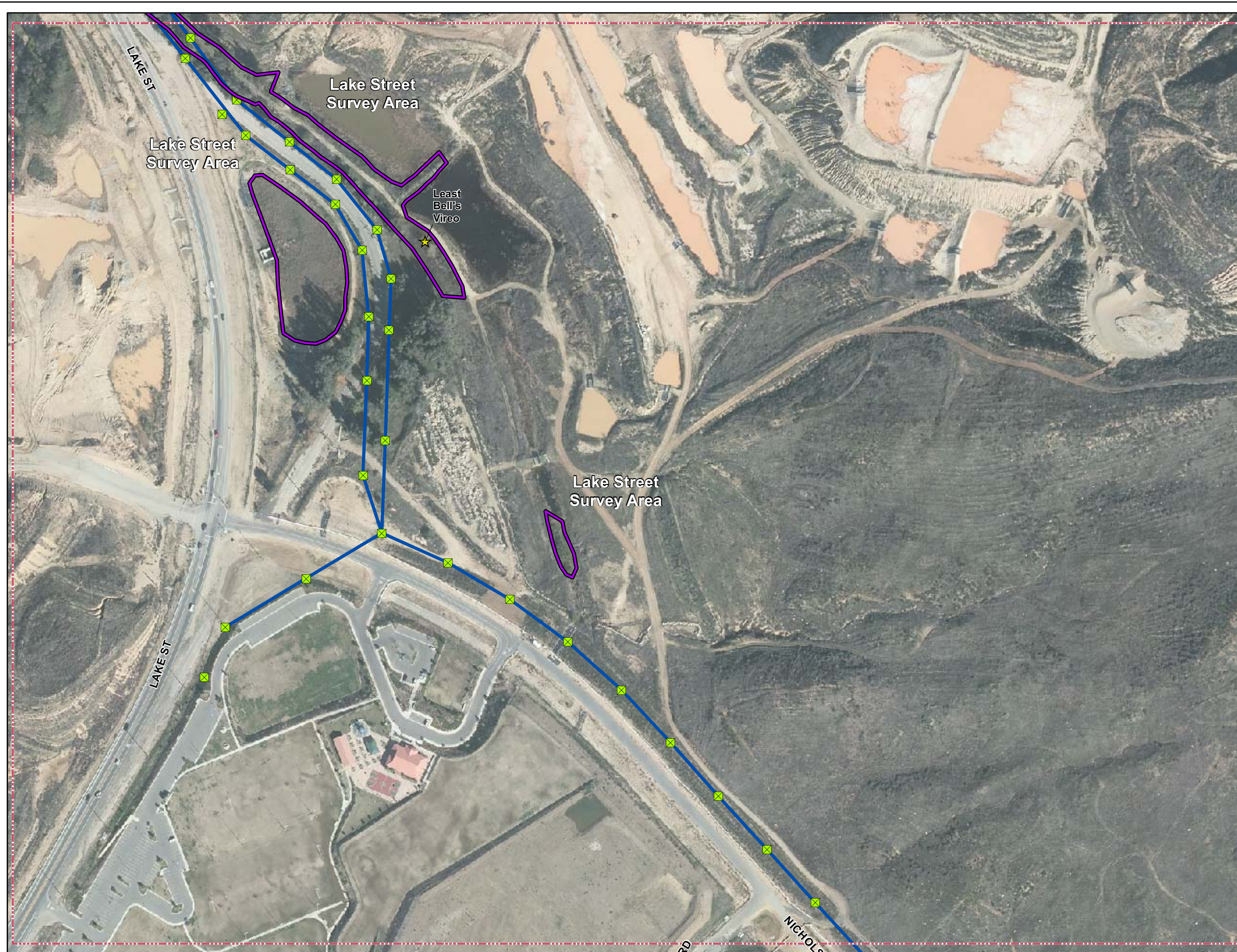
amec

1 inch = 250 feet

0 125 250 Feet

2013 Riparian Bird Focused Surveys
Valley - Ivyglen Subtransmission Line Project
Phase 2

Figure 3-1



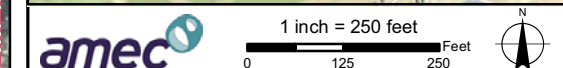
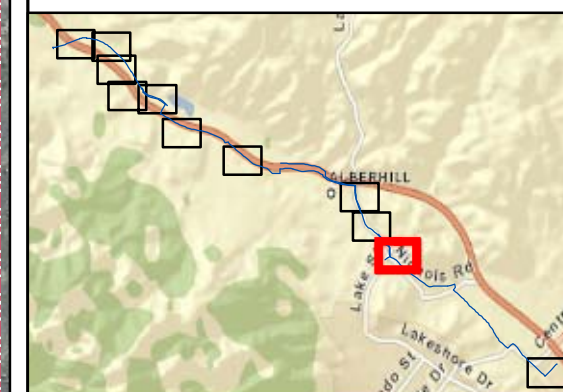
Legend

Project Features

- ✕ Pole Locations (7/16/2013)
- Subtransmission Line (7/16/2013)
- ▲ Western Yellow-billed Cuckoo Survey Locations
- ▭ Riparian Bird Survey Areas (2013)
- - - Map Grid Extents

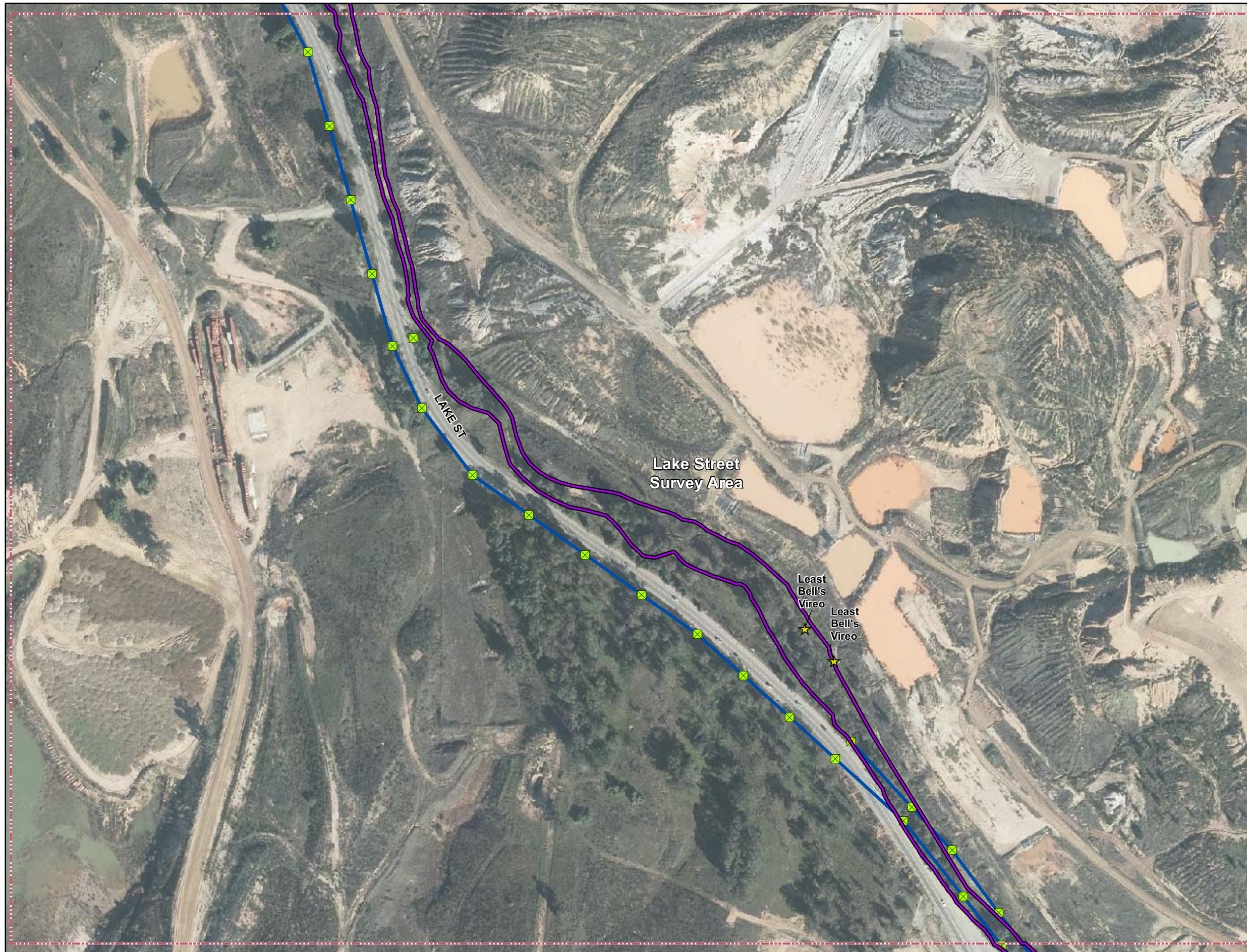
Sensitive Species Data (AMEC)

- ★ Sensitive Species (2013)



2013 Riparian Bird Focused Surveys
Valley - Ivyglen Subtransmission Line Project
Phase 2

Figure 3-2



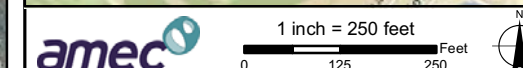
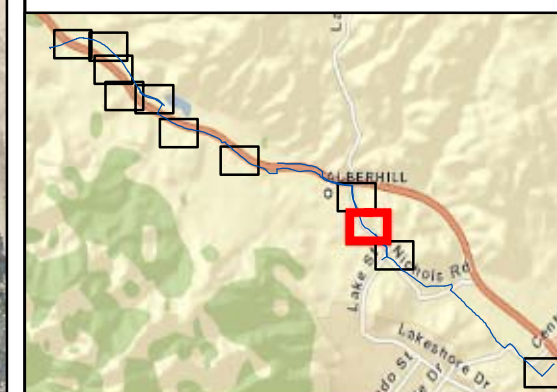
Legend

Project Features

- x Pole Locations (7/16/2013)
- Subtransmission Line (7/16/2013)
- ▲ Western Yellow-billed Cuckoo Survey Locations
- Riparian Bird Survey Areas (2013)
- Map Grid Extents

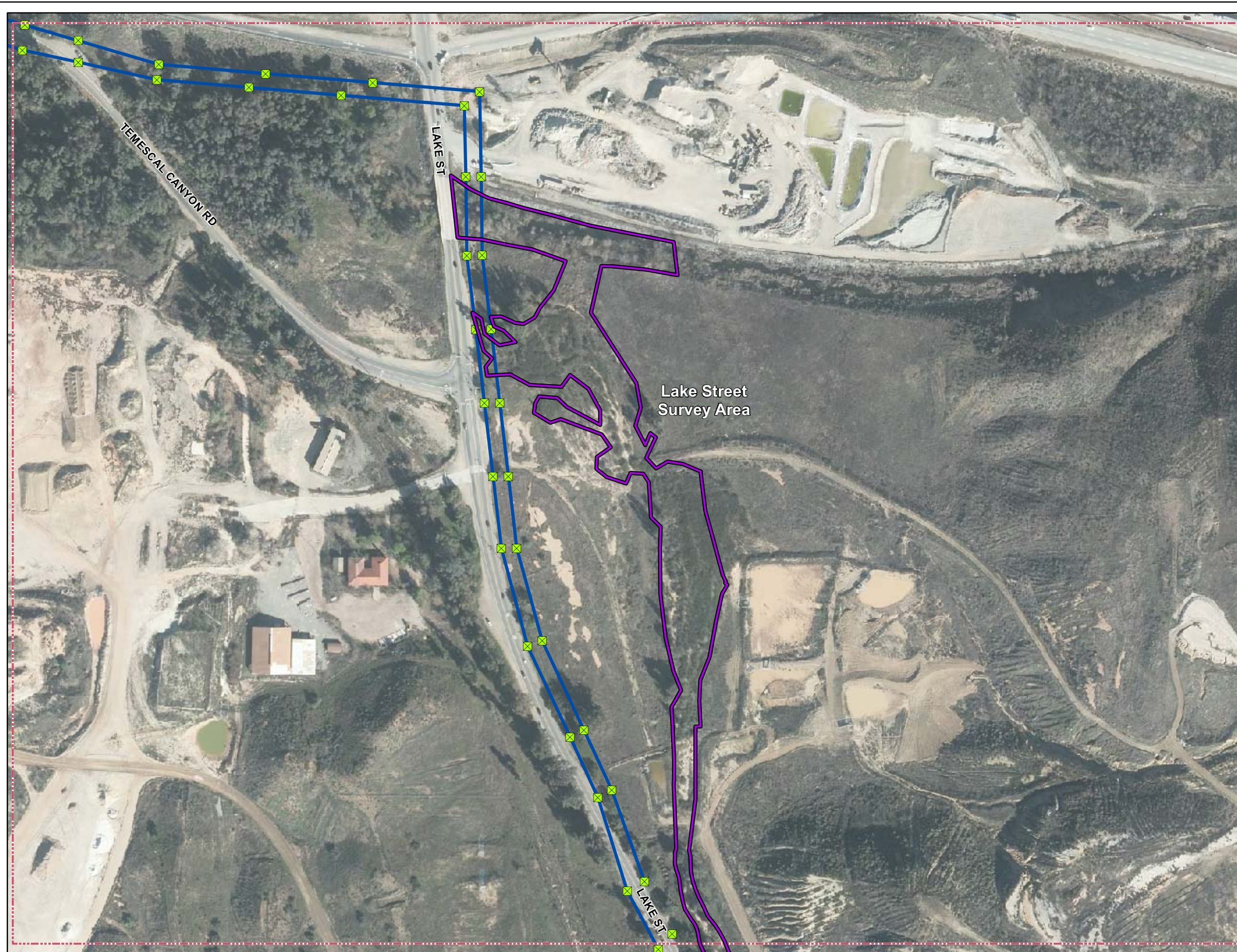
Sensitive Species Data (AMEC)

- ★ Sensitive Species (2013)



2013 Riparian Bird Focused Surveys
Valley - Ivyglen Subtransmission Line Project
Phase 2

Figure 3-3



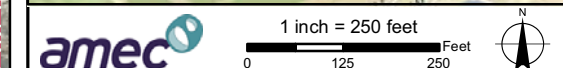
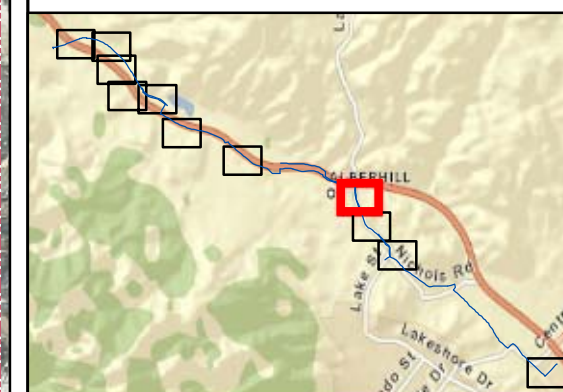
Legend

Project Features

- ✕ Pole Locations (7/16/2013)
- Subtransmission Line (7/16/2013)
- ▲ Western Yellow-billed Cuckoo Survey Locations
- ▭ Riparian Bird Survey Areas (2013)
- - - Map Grid Extents

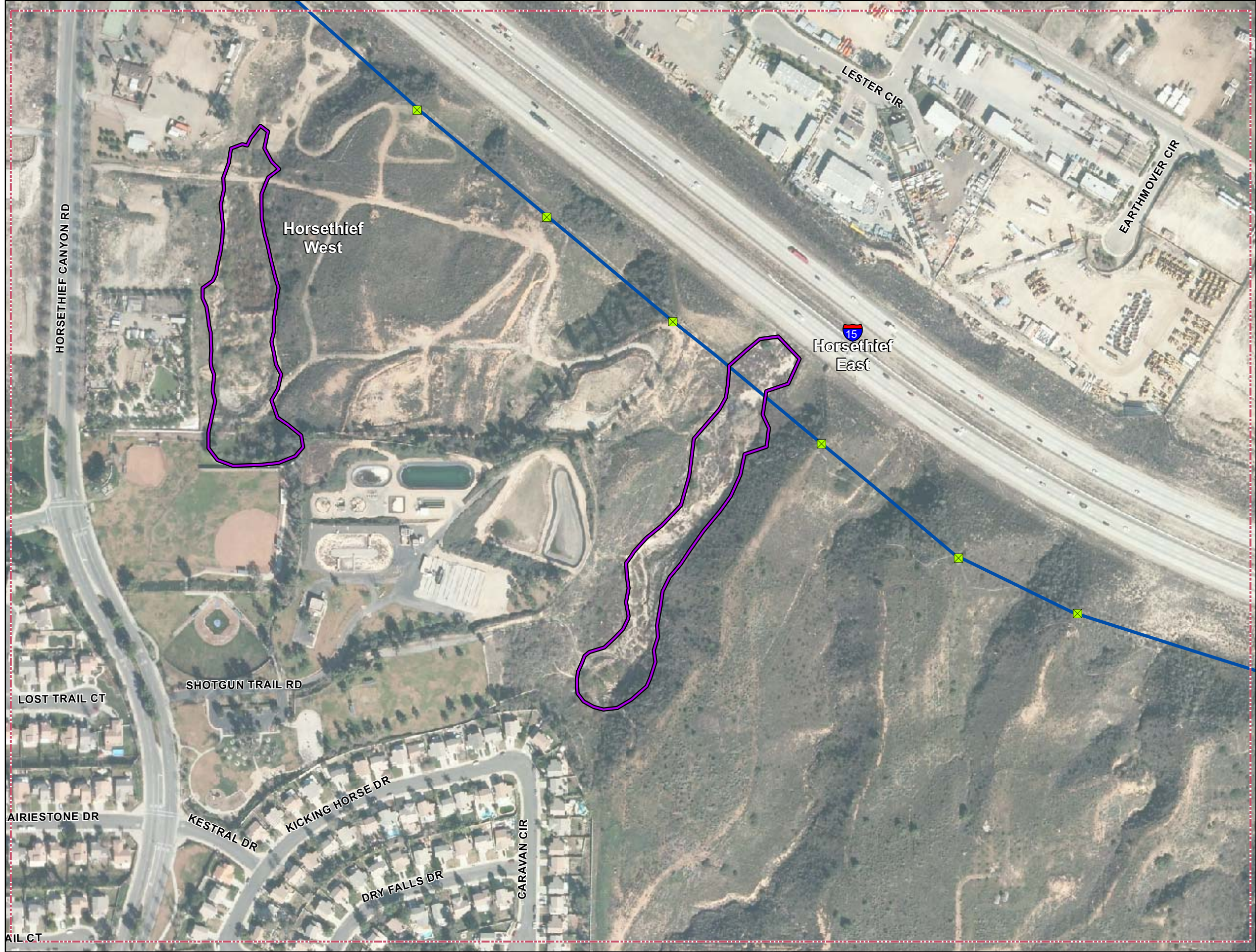
Sensitive Species Data (AMEC)

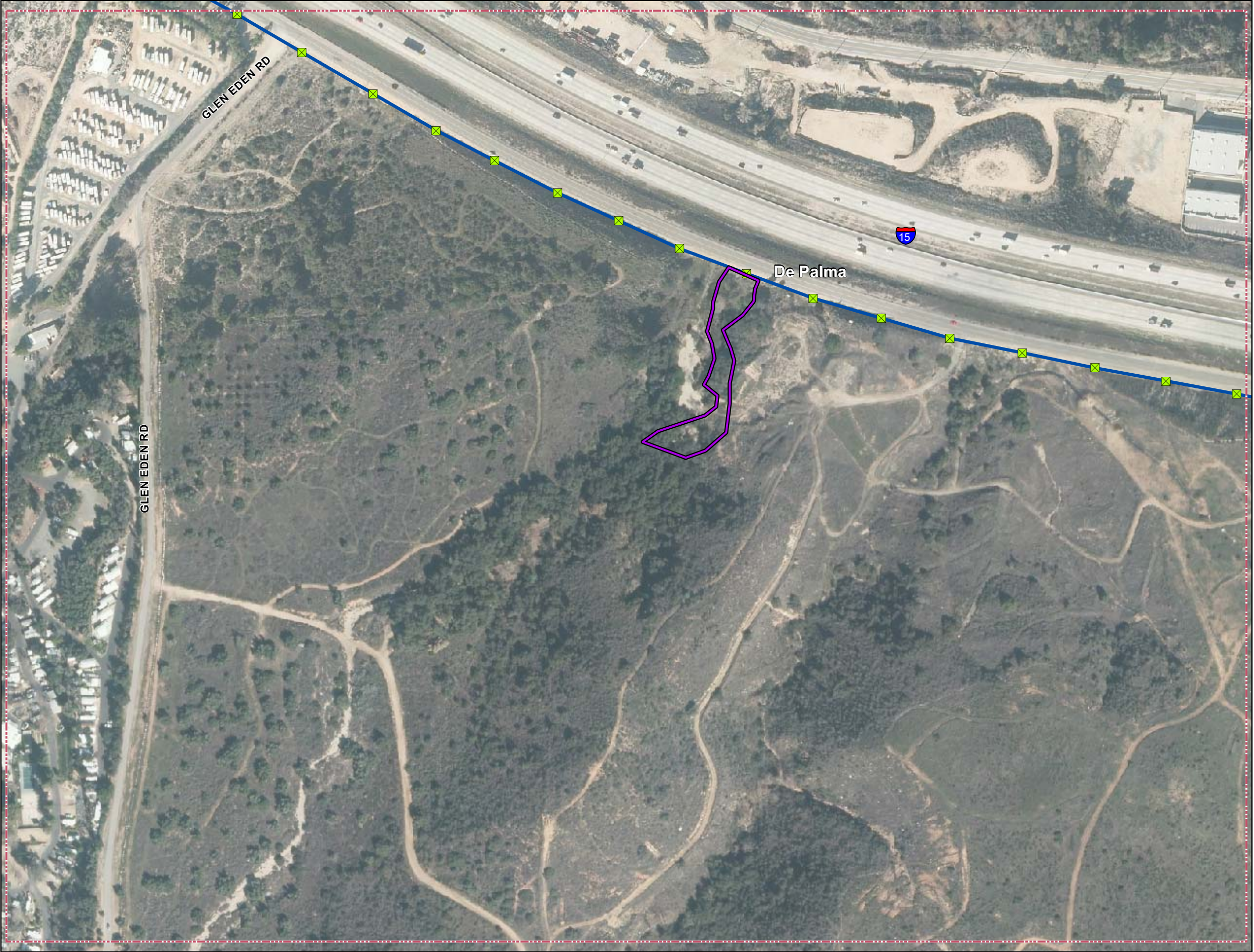
- ★ Sensitive Species (2013)



2013 Riparian Bird Focused Surveys
Valley - Ivyglen Subtransmission Line Project
Phase 2

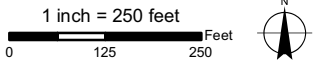
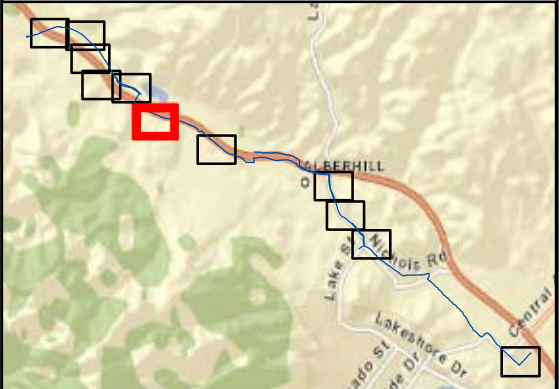
Figure 3-4





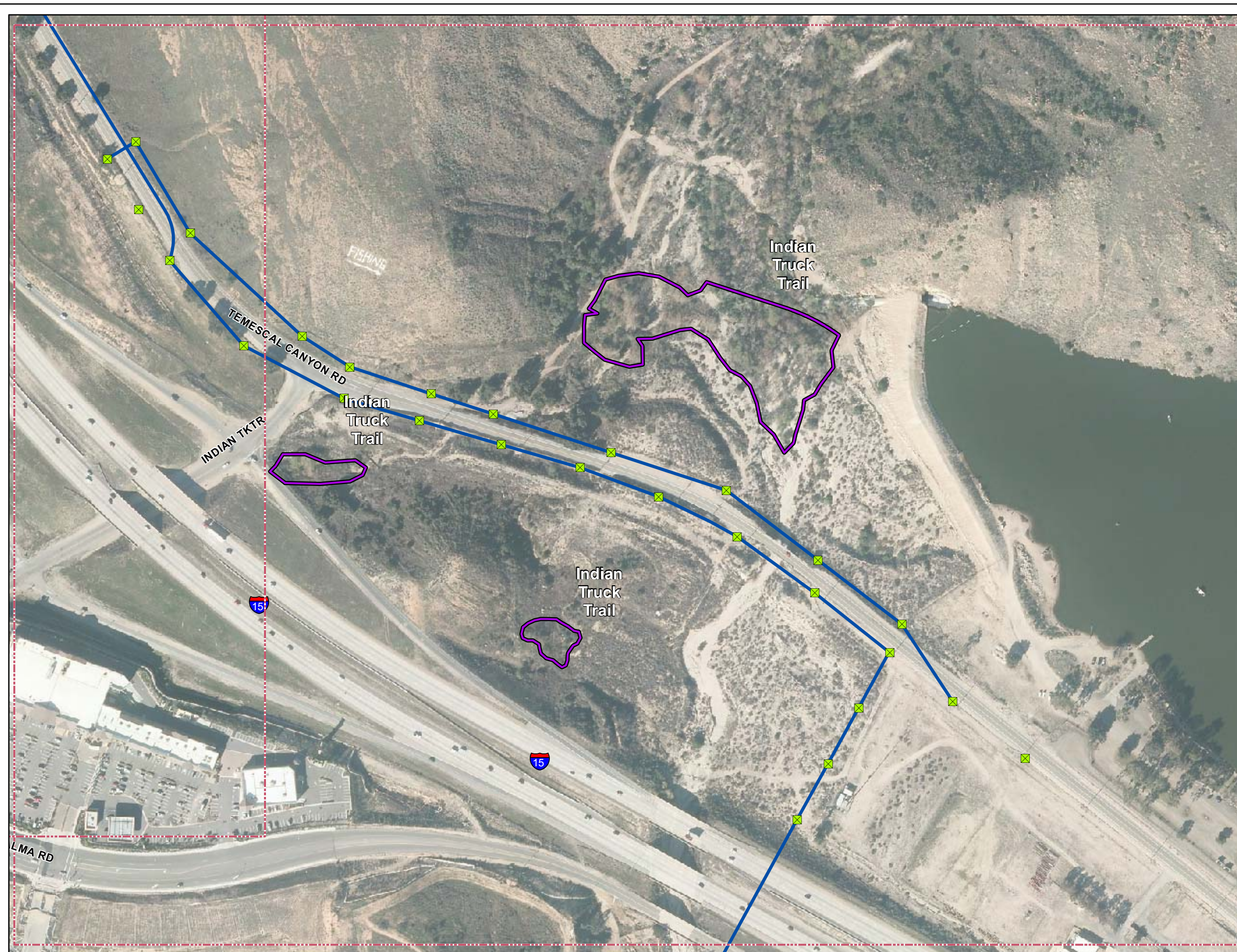
Legend

- Project Features**
- ✕ Pole Locations (7/16/2013)
 - Subtransmission Line (7/16/2013)
 - ▲ Western Yellow-billed Cuckoo Survey Locations
 - ▭ Riparian Bird Survey Areas (2013)
 - - - Map Grid Extents
- Sensitive Species Data (AMEC)**
- ★ Sensitive Species (2013)









2013 Riparian Bird Focused Surveys
Valley - Ivyglen Subtransmission Line Project
Phase 2

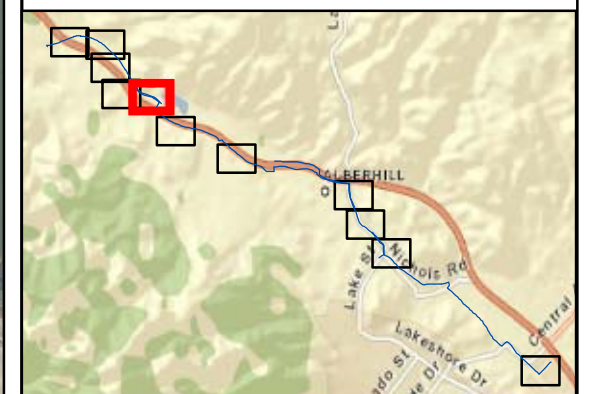
Figure 3-6



Legend

Project Features

-  Pole Locations (7/16/2013)
-  Subtransmission Line (7/16/2013)
-  Western Yellow-billed Cuckoo Survey Locations
-  Riparian Bird Survey Areas (2013)
-  Map Grid Extents
- Sensitive Species Data (AMEC)**
-  Sensitive Species (2013)



amec

1 inch = 250 feet

0 125 250 Feet

N

**2013 Riparian Bird Focused Surveys
Valley - Ivyglen Subtransmission Line Project
Phase 2**

Figure 3-7



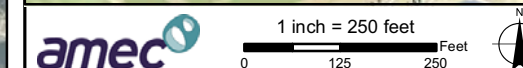
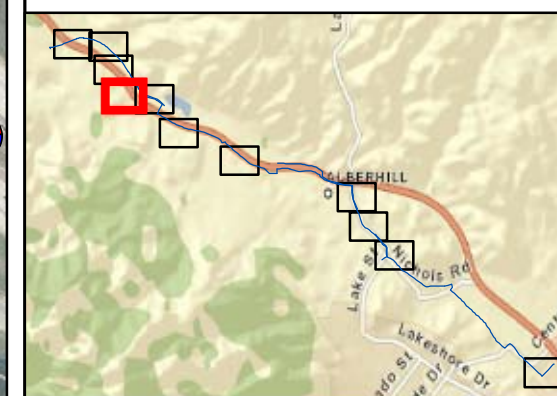
Legend

Project Features

- ✕ Pole Locations (7/16/2013)
- Subtransmission Line (7/16/2013)
- ▲ Western Yellow-billed Cuckoo Survey Locations
- ▭ Riparian Bird Survey Areas (2013)
- - - Map Grid Extents

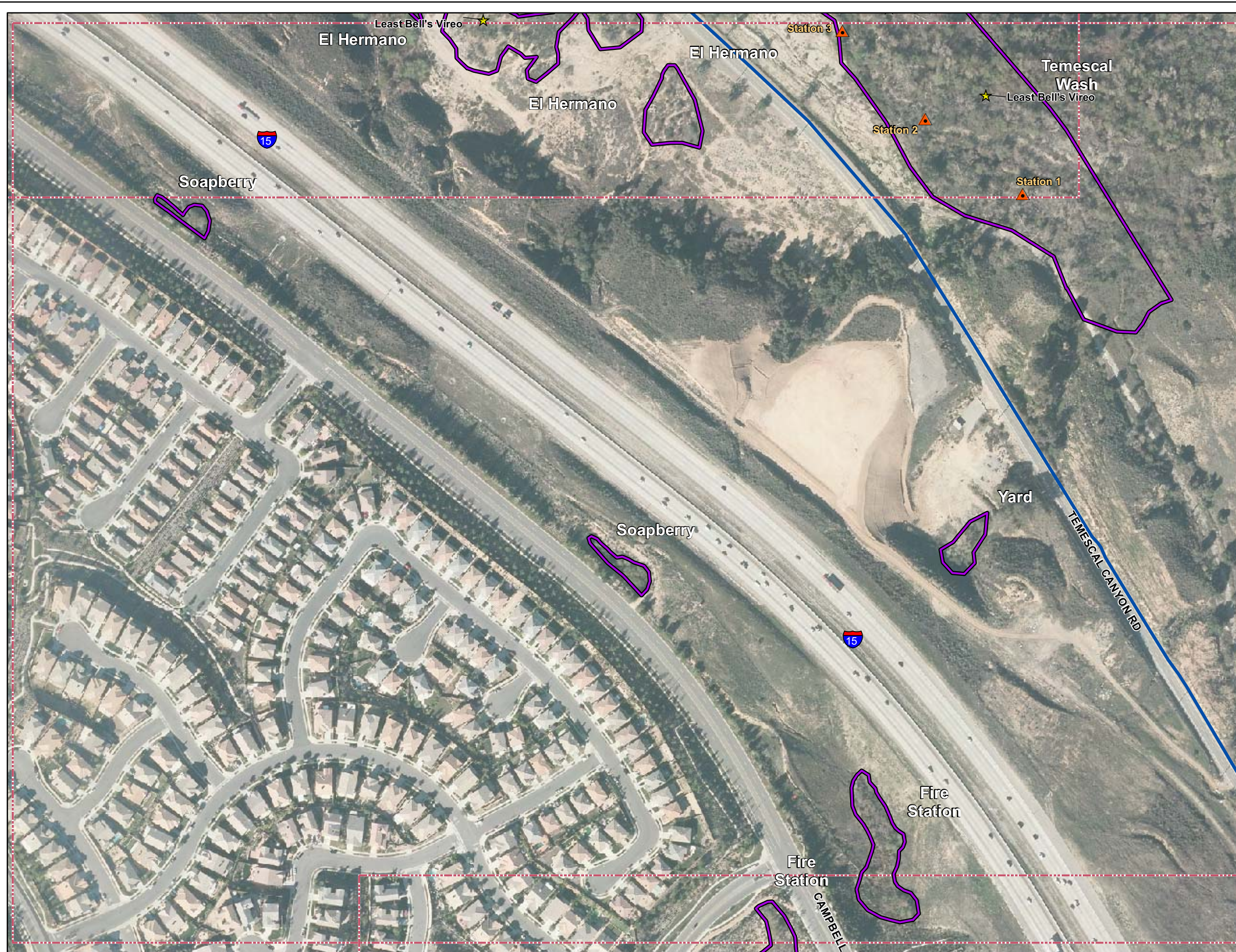
Sensitive Species Data (AMEC)

- ★ Sensitive Species (2013)



2013 Riparian Bird Focused Surveys
Valley - Ivyglen Subtransmission Line Project
Phase 2

Figure 3-8



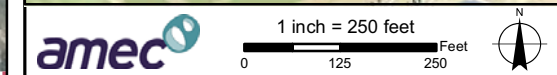
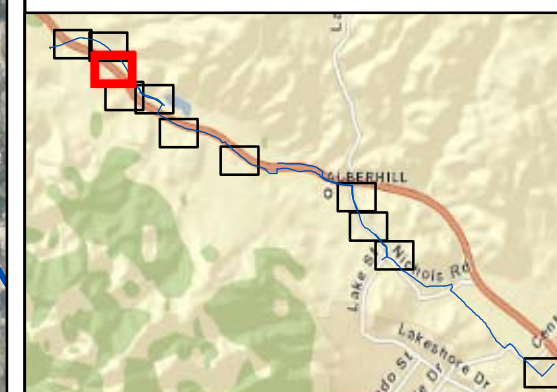
Legend

Project Features

- Pole Locations (7/16/2013)
- Subtransmission Line (7/16/2013)
- ▲ Western Yellow-billed Cuckoo Survey Locations
- Riparian Bird Survey Areas (2013)
- Map Grid Extents

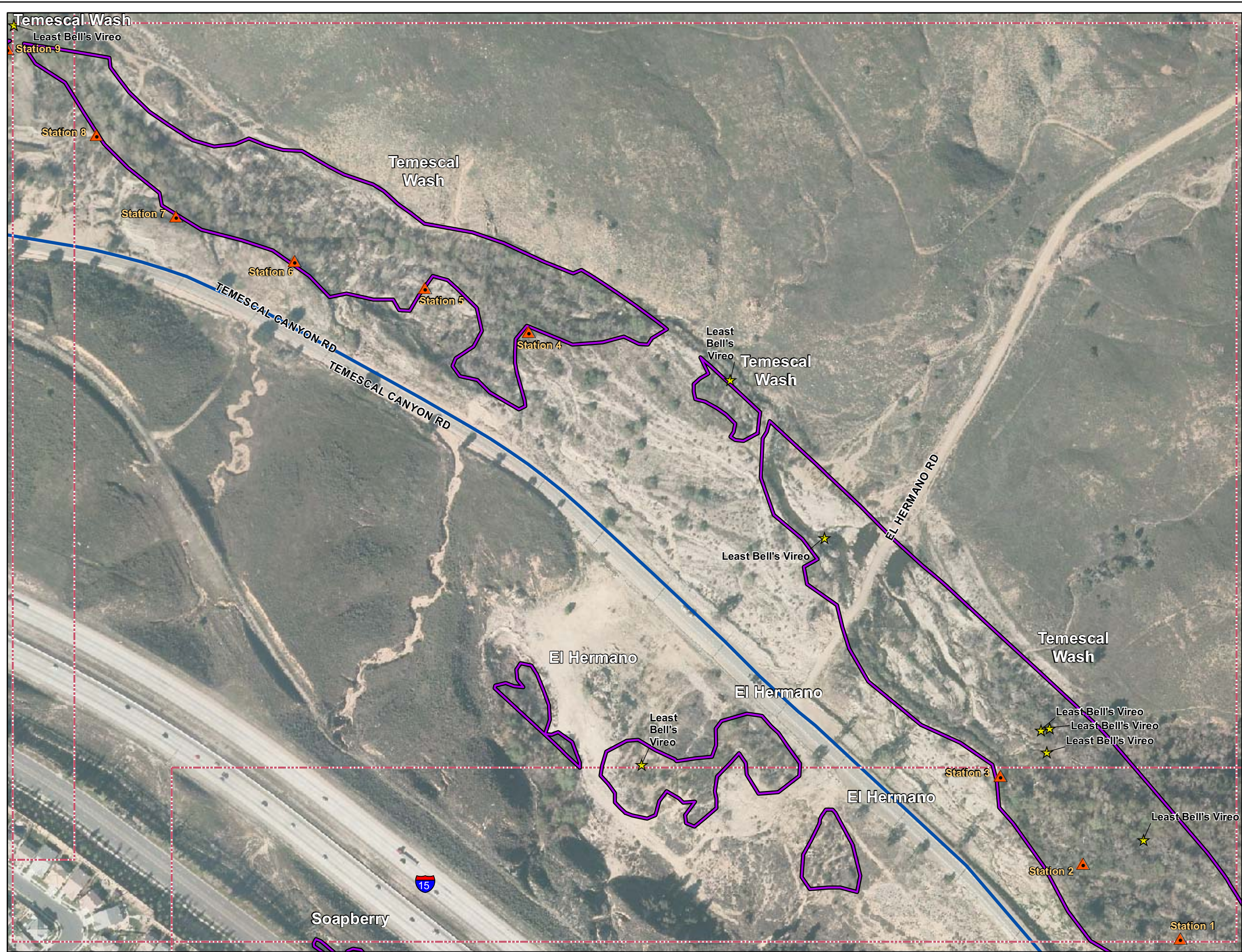
Sensitive Species Data (AMEC)

- ★ Sensitive Species (2013)



2013 Riparian Bird Focused Surveys
Valley - Ivyglen Subtransmission Line Project
Phase 2

Figure 3-9



Legend

Project Features

- Pole Locations (7/16/2013)
- Subtransmission Line (7/16/2013)
- Western Yellow-billed Cuckoo Survey Locations
- Riparian Bird Survey Areas (2013)
- Map Grid Extents

Sensitive Species Data (AMEC)

- Sensitive Species (2013)

2013 Riparian Bird Focused Surveys
Valley - Ivyglen Subtransmission Line Project
Phase 2

Figure 3-10



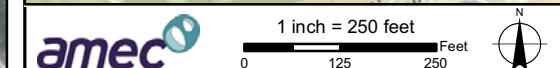
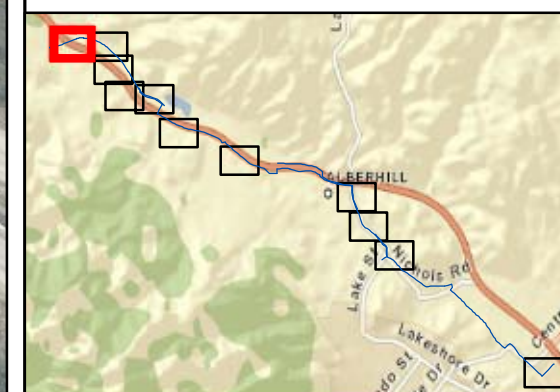
Legend

Project Features

- Pole Locations (7/16/2013)
- Subtransmission Line (7/16/2013)
- Western Yellow-billed Cuckoo Survey Locations
- Riparian Bird Survey Areas (2013)
- Map Grid Extents

Sensitive Species Data (AMEC)

- Sensitive Species (2013)



2013 Riparian Bird Focused Surveys
Valley - Ivyglen Subtransmission Line Project
Phase 2

Figure 3-11

APPENDIX B

SURVEY PHOTOS



Photo 1. The “Pasadena” survey patch.



Photo 2. Part of the northern “Lake Street” survey area, which was surveyed all season.



Photo 3. Part of the southern Lake Street survey area that was surveyed for only the first half of the season (see next photo).



Photo 4. Looking at the same area as the previous photo. Surveys were suspended in this area following discovery of this vegetation removal.



Photo 5. Part of the “Horsethief East” drainage.



Photo 6. Part of the “Horsethief West” drainage.



Photo 7. Part of the "De Palma" drainage.



Photo 8. South "Indian Truck Trail" patch.



Photo 9. The “Yard” drainage.



Photo 10. Part of the “El Hermano” patches.



Photo 11. Part of the “Mayhew” patches.



Photo 12. Part of the “Campbell” drainage.



Photo 13. Part of the “Fire Station” drainage. Drought stress appearing at right.



Photo 14. Looking northwest at the “Soapberry” patches.



Photo 15. One of the "Triplet" patches.



Photo 16. Drought stressed "Basin" patch.



Photo 17. Part of the Temescal Wash survey area



Photo 18. Part of the Temescal Wash survey area

APPENDIX C

SURVEY NOTIFICATION LETTERS

Paymard, Halleh M

Subject: FW: Southwestern Willow Flycatcher Survey Notification VIG
Attachments: SWF Survey Notification.docx; RiparianBirdSurveys2013_Fieldmaps_opt_opt.pdf

From: Green, John F (Riverside)
Sent: Wednesday, May 01, 2013 3:08 PM
To: 'Tharratt, Susie'
Subject: Southwestern Willow Flycatcher Survey Notification VIG

Ms. Tharratt,

Attached is formal notification of Southwestern Willow Flycatcher surveys for Southern California Edison's Valley-Ivyglen (VIG) project. Aerial photos of the survey areas are also attached and topographic map locations are below. Please let me know if you have any questions.

Thank You,

John F. Green
Wildlife Biologist
AMEC

Environment & Infrastructure
3120 Chicago Ave, Suite 110, Riverside, CA 92507, USA
Tel +1 (951) 369 8060, Fax +1 (951) 369 8035
Direct +1 (951) 369 8060 x 104, Mobile +1 (951) 634 9768
john.f.green@amec.com
amec.com



U.S. Fish & Wildlife Service
Carlsbad Field Office
6010 Hidden Valley Road
Carlsbad, CA 92011

1 May 2013

ATTN: Susie Tharratt

RE: Survey Notification for proposed Southern California Edison Valley-Ivyglen transmission line project.

Dear Ms. Tharratt:

This letter serves as AMEC Earth & Environmental, Inc.'s (AMEC) formal notification of our intent to conduct breeding season focused presence-absence surveys for the Southwestern Willow Flycatcher (*Empidonax traillii extimus*). We anticipate that all surveys will be conducted by the following permitted AMEC biologists: John F. Green (TE054011) and Stephen J. Myers (TE-804203) in accordance with U.S. Fish and Wildlife Service Presence/Absence Survey Guidelines.

Southern California Edison plans to build a new transmission lines in this area, so AMEC has been contracted to survey areas in the vicinity of the proposed project to ensure that the project does not impact endangered species. The approximate survey areas and project alignment are shown on the attached maps. The areas to be surveyed are located in the cities of Lake Elsinore, Corona, and Perris in Riverside County, California, and on unincorporated county lands. These areas are found on the U.S.G.S. 7.5 minute *Lake Mathews, CA, Lake Elsinore, CA, Romoland, CA and Alberhill, CA* quadrangles.

2013 Valley-Ivyglen Riparian Birds Surveys (Three Survey Days)

Survey Day 1: Southeast Survey Area (Project Phases I & II)

1. Goldenrod Avenue Outlier consists of a habitat patch north of Goldenrod Avenue. Romoland quadrangle, Section 18, Range 3 West, Township 5 South.
2. Alabaster Loop Outlier consists of a habitat patch north of Alabaster Loop and East of Goldenrod Avenue. Romoland quadrangle, Section 18, Range 3 West, Township 5 South.
3. Peach Street Outlier consists of two habitat patches bisected by Highway 74. Lake Elsinore quadrangle, Section 21, Range 4 West, Township 5 South.
4. Wasson Canyon Outlier consists of two habitat patches bisected by Highway 74. Lake Elsinore quadrangle, Section 21, Range 4 West, Township 5 South.
5. Rosetta Canyon Outlier consists of two habitat patches bisected by Highway 74. Lake Elsinore quadrangle, Section 29, Range 4 West, Township 5 South.
6. Pasadena Outlier consists of a habitat patch southwest of the intersection of Third and Pasadena Streets. Lake Elsinore quadrangle, Section 31, Range 4 West, Township 5 South.
7. Lake Street Survey Area consists of habitat along and south of Temescal Wash and east of Lake Street. Alberhill quadrangle, Sections 15, 22, 27 Range 5 West, Township 5 South.

Survey Day 2: Northwest Survey Area (Project Phase II)

1. Horsethief Outliers (East and West) consist of habitat in two canyons southeast of the intersection of Horsethief Canyon and De Palma Roads. Alberhill quadrangle, Section 17, Range 5 West, Township 5 South.
2. De Palma Outlier consists of a riparian patch south of De Palma Road and east of Glen Eden Road. Alberhill quadrangle, Sections 7 & 18, Range 5 West, Township 5 South.
3. Indian Truck Trail Outliers are habitat patches bisected by Temescal Canyon Road, just southeast of its intersection with Indian Truck Trail. Alberhill & Lake Mathews quadrangles, Sections 7, Range 5 West, Township 5 South and 12, Range 6 West, Township 5 South.
4. Yard Outlier consists of a riparian patch southwest of Temescal Canyon Road, approximately 0.25 mile southeast of El Hermano Road. Lake Mathews quadrangle, Section 12, Range 6 West, Township 5 South.
5. El Hermano Outliers are riparian patches southwest of the intersection of Temescal Canyon and El Hermano Roads. Lake Mathews quadrangle, Section 1, Range 6 West, Township 5 South.
6. Mayhew Outliers consist of two riparian patches southeast of the intersection of Temescal Canyon and Mayhew Roads. Lake Mathews quadrangle, Section 2, Range 6 West, Township 5 South.
7. Basin Outlier consists of a riparian patch in a detention basin south of the intersection of Temescal Canyon and Campbell Ranch Roads. Lake Mathews quadrangle, Section 2, Range 6 West, Township 5 South.

Temescal Wash Survey Area (Project Phase II)

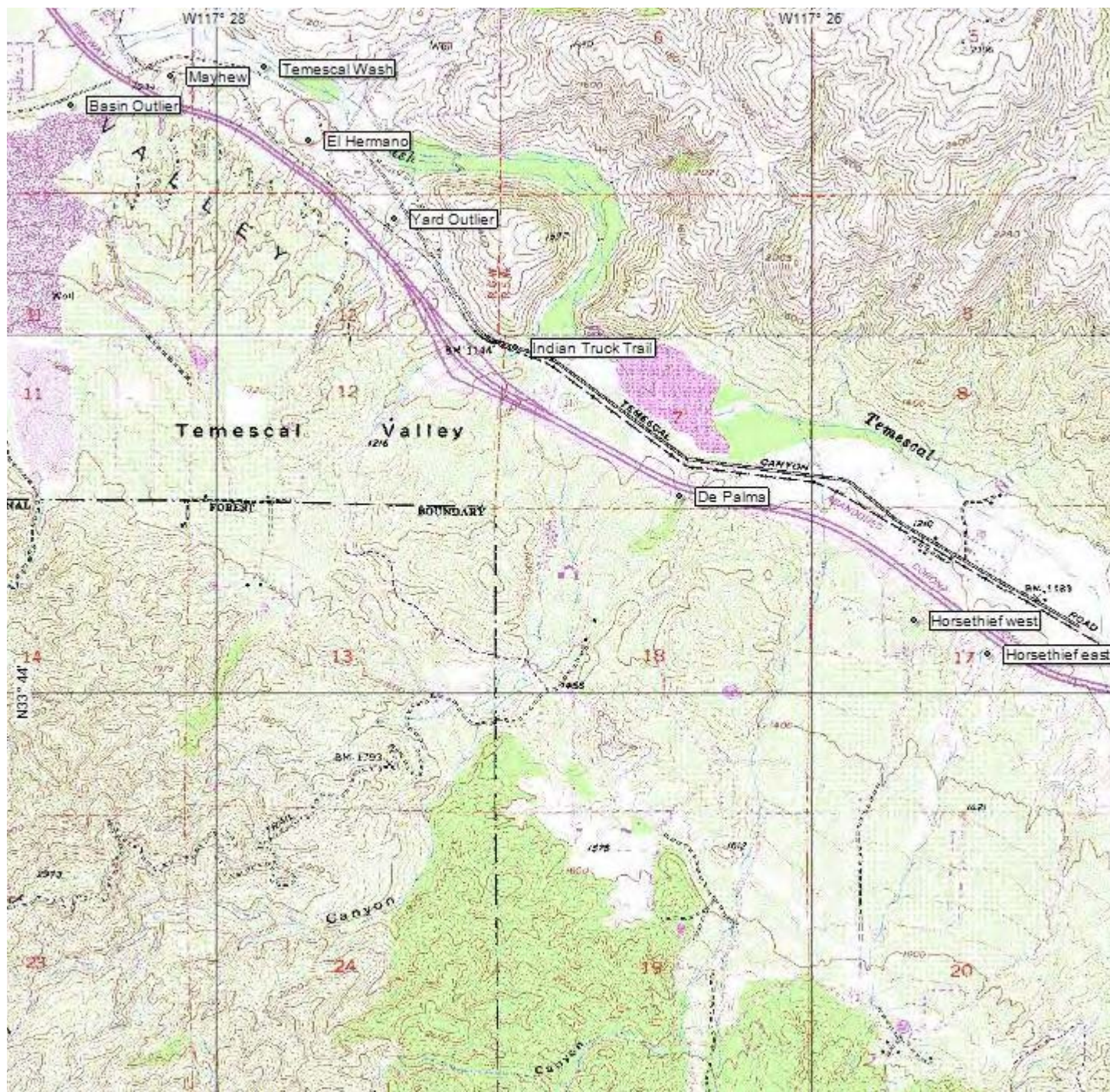
1. The Temescal Wash Survey area follows approximately 4900 feet of quality riparian habitat on the southwest side of Temescal Wash northeast of Temescal Canyon Road from the vicinity of Park Canyon Road to approximately 0.25 mile southeast of El Hermano Road. Lake Mathews quadrangle, Section 1, Range 6 West, Township 5 South.

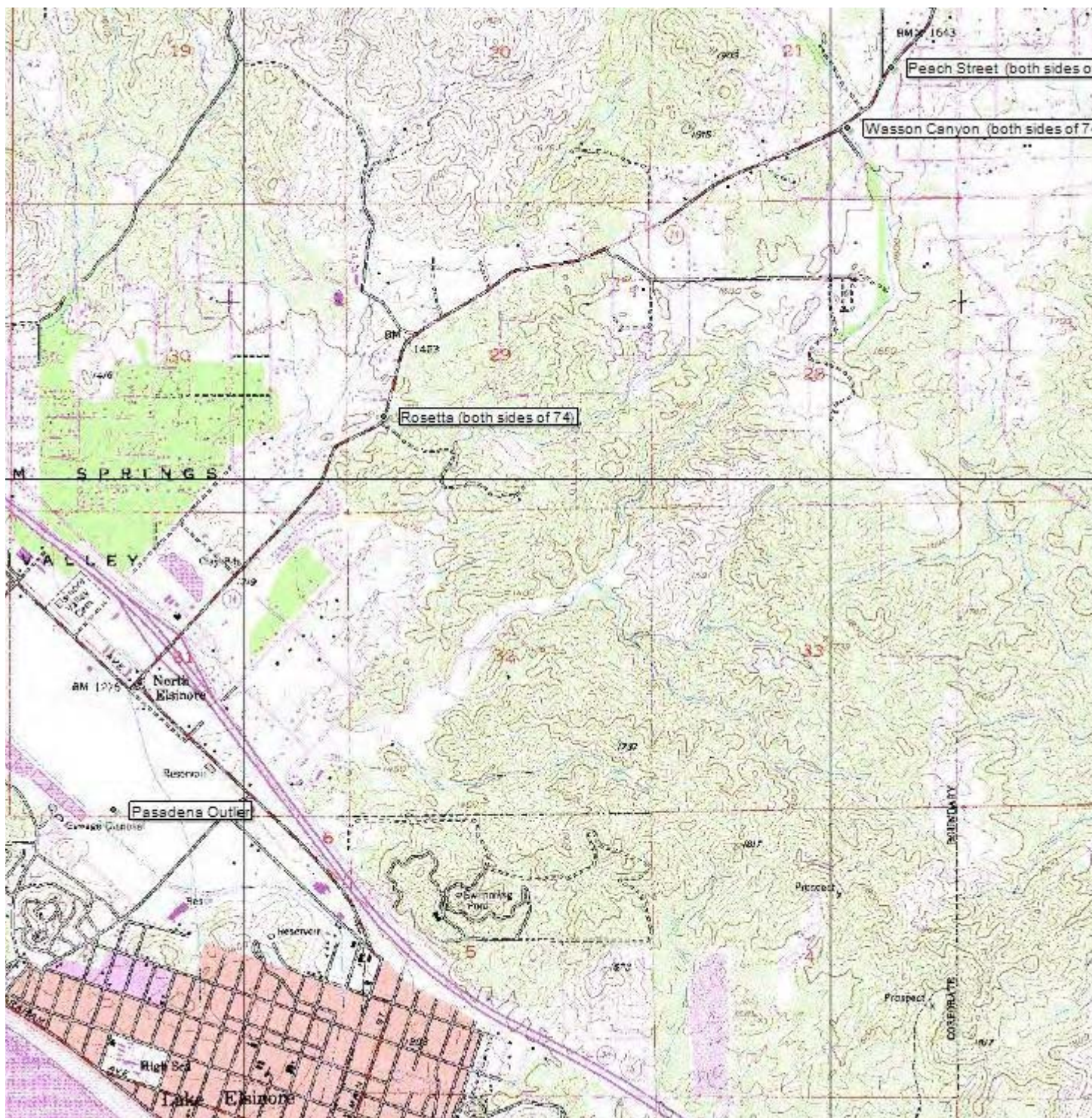
Please contact me with any questions.

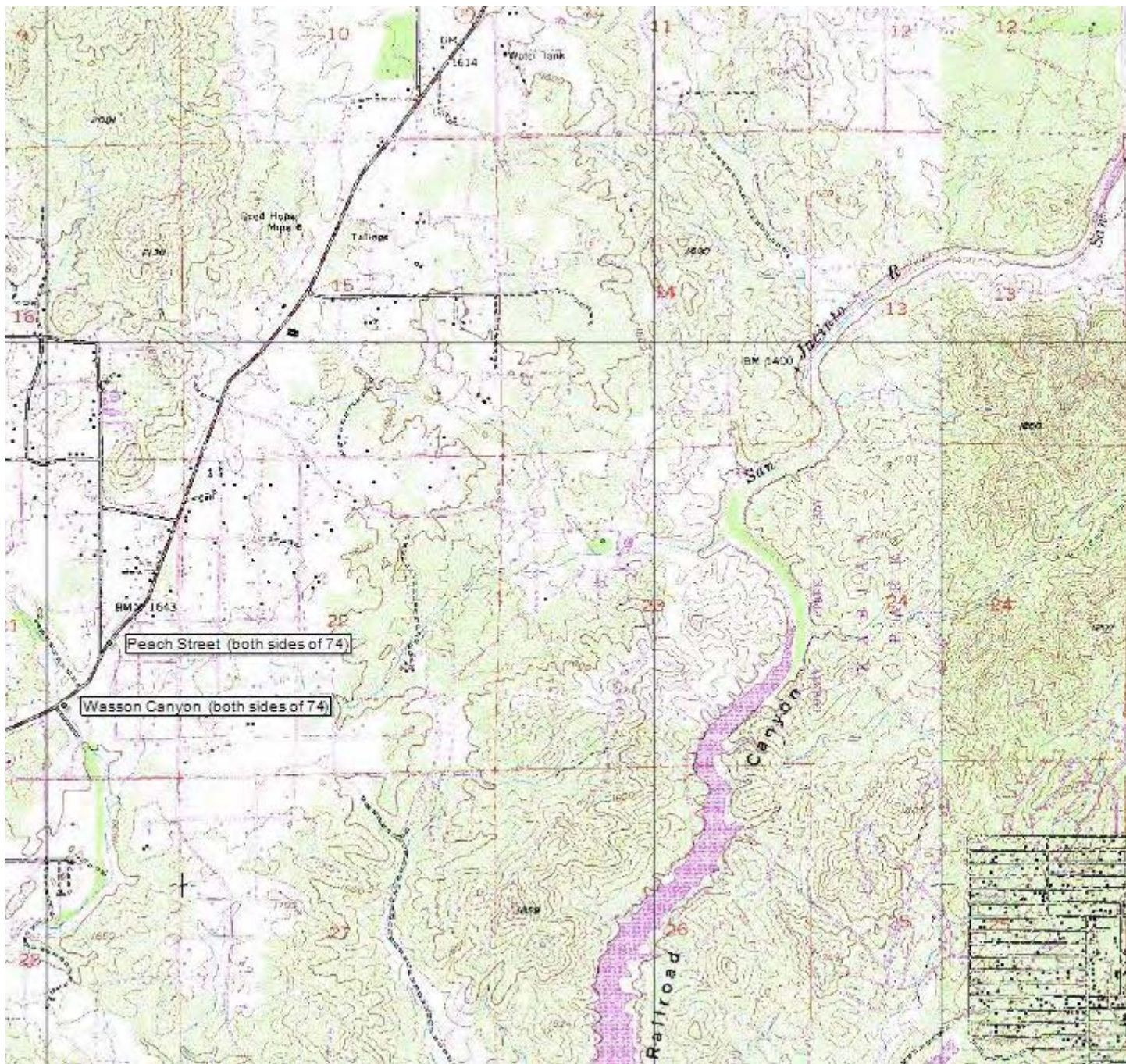
Thank You,

John F. Green
Wildlife Biologist
AMEC Environment and Infrastructure, Inc.
3120 Chicago Avenue, Suite 110
Riverside, CA 92507

john.f.green@amec.com
(951) 369-8060







From: Green, John F (Riverside)
Sent: Friday, May 31, 2013 10:45 AM
To: Tharratt, Susie
Cc: Paymard, Halleh M
Subject: Report of Riparian Vegetation Removal
Attachments: BeforeGrading.jpg; AfterGrading.jpg; 032.jpg; 033.jpg; 034.jpg; 035.jpg; CandC_GradedArea.pdf; USFWS_Notice_RiparianVegRemoval_5-31-13-FINAL.pdf

Ms. Tharratt,

We have suspended one of our riparian bird surveys due to habitat removal. The attachments to this email explain in more detail. I will also forward the original survey notification to you for your convenience if you wish to review.

Attachments:

- PDF: "USFWS Notice..." is a letter explaining the issue in detail.
- Photos 032-035 show areas that were previously riparian bird habitat.
- Photos "BeforeGrading" and "AfterGrading" show a comparison between how it looked before and how it looks now.
- PDF: "CandC GradedArea" is an aerial photo map showing approximate limits of grading and what was impacted.

Please let me know if you have any questions.

Thanks,

John F. Green
Wildlife Biologist
AMEC

Environment & Infrastructure
3120 Chicago Ave, Suite 110, Riverside, CA 92507, USA
Tel +1 (951) 369 8060, Fax +1 (951) 369 8035
Direct +1 (951) 369 8060 x 224, Mobile +1 (951) 634 9768
john.f.green@amec.com
amec.com



31 May 2013

U.S. Fish and Wildlife Service
Carlsbad Field Office
6010 Hidden Valley Road
Carlsbad, CA 92011

ATTN: Susie Tharratt

Dear Ms. Tharratt:

On May 1, 2013, I notified you via email that AMEC would be conducting surveys for the Southwestern Willow Flycatcher in appropriate habitat along Southern California Edison's (SCE) proposed Valley-Ivyglen (VIG) project. We are also conducting Least Bell's Vireo surveys in these areas. The purpose of this notification is to report some habitat destruction that occurred adjacent to one portion of the VIG project area, and the subsequent decision to suspend further riparian bird surveys in this area.

A portion of the VIG project passes through lands owned by a private development company, Castle and Cooke (C&C). This particular C&C-owned development area is called Alberhill Ranch. In order to be granted access to C&C properties, including Alberhill Ranch, the landowner has required that a representative of their company accompany AMEC biologists during all biological surveys, that all sensitive species detections be shared with the representative in the field, and that all data collected in the field be turned over to the representative within a couple of days following the survey.

AMEC's riparian bird surveys for the VIG project began on C&C properties on April 10 with the first of eight Least Bell's Vireo (LBVI) surveys. The following represents a bulleted summary of riparian bird survey results. Note that results will also be included in the riparian bird survey report (anticipated submittal in late August 2013), in compliance with Permit # TE054011 (John F. Green) and TE-804203 (Stephen J. Myers). Photographs and a map of the area are attached.

Note: map reflects revised version from August 2013.

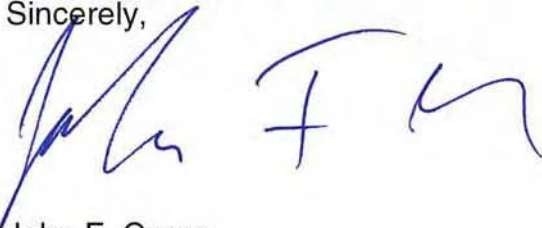
- April 10 (Green) – First LBVI Survey: No listed riparian bird species were found.
- April 26 (Green) – Second LBV Survey: LBVI male found singing upstream (the southernmost detection mapped on the attached graphic). The vireo male then moved downstream, singing constantly, and was last seen that day singing at the northernmost detection mapped on the attached graphic. Also noted on that date that some vegetation removal, mostly upland, had occurred along a stretch of the stream.
- May 8 (Myers) – Third LBVI Survey: LBVI singing near its last known location from April 26th. As Myers moved upstream from there, he encountered areas that had been cleared more substantially than previously noted. However, this was his first visit to the site and he did not realize that what had been cleared were the areas previously been noted as comprising much of the LBV's territory.
- May 20 (Green) – Fourth LBVI Survey and First of Five Southwestern Willow Flycatcher (SWFL) Surveys: The extent of the vegetation removal was documented from the north end (downstream) to south end (upstream). Refer to attached graphic. The full survey route was covered, but neither LBVI nor SWFL were detected this day.

The cleared area had also been occupied by numerous other singing birds, including at least one other known sensitive species, the Yellow Warbler. Based on the time of year, it is assumed that nesting activity was also occurring in the area where the riparian vegetation removal occurred.

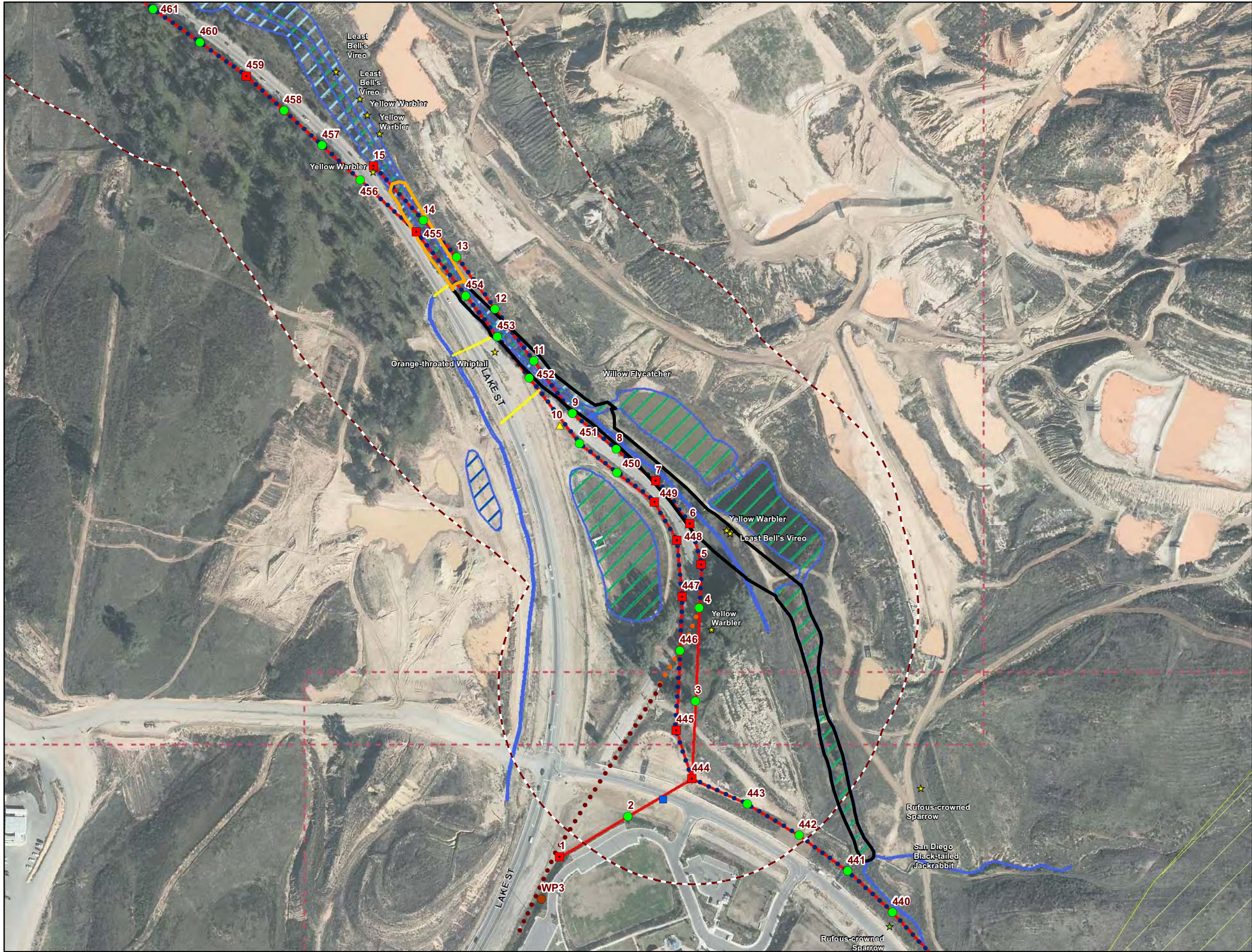
With the extensive loss of habitat suitable for riparian birds within the C&C (Alberhill Ranch) survey area and because of concern over possible misuse of our results, we are suspending additional riparian bird surveys on C&C lands, effective immediately. AMEC also notified SCE of the riparian vegetation removal and the suspension of additional riparian bird surveys.

If you have any questions regarding this letter or require additional information, please do not hesitate to contact me.

Sincerely,



John F. Green
Wildlife Biologist
john.f.green@amec.com



Legend

Pole Type

- Guy
- Hybrid
- LWSP
- Riser
- Shoofly
- TSP
- Wood
- Guard Structures

Subtransmission Route

- Bird Habitat Damaged (earlier in season - 0.45 Acre)
- Riparian Vegetation Removed (~2.95 Acres)

Fiber Optic Line

- Underground Fiber Optic in existing conduit
- Underground Fiber Optic in new conduit
- Overhead Fiber Optic Cable
- Subtransmission Vaults
- Access Road Impacts
- Material Yards

Construction Avoidance Area
(1 March - 31 August)

Conserved Lands (MSHCP)

Map Page Indicator

Sensitive Species Data

- Sensitive Species (2013)
- Sensitive Species (2012)
- Sensitive Species (2011)
- Sensitive Species (2010)
- Sensitive Species (2009)
- Sensitive Species (2008)
- Sensitive Species (2007)
- Sensitive Species (2006)
- Smooth Tarplant (2009)
- Smooth Tarplant (2011 S&D Associates)

Potentially Jurisdictional Waters (AMEC)

- Waters of the State of California
- Waters of the U.S. and Waters of the State of California
- Wetland
- Vernal Pool
- Depressions
- Culvert

NOTE: MAP UPDATED SINCE ORIGINAL SUBMITTAL

Map Notes
-Map Current as of 8/12/2013

amec

1 inch = 300 feet

0 150 300 Feet

**Biological Resources & Proposed Project Design
Valley-Ivyglen Subtransmission Line Project
Phase II
Riverside County, California**

Map



Photo 1. Before grading



Photo 2. After grading



Photo 3. Previously riparian bird habitat



Photo 4. Previously riparian bird habitat



Photo 5. Previously riparian bird habitat



Photo 6. Previously riparian bird habitat

APPENDIX D

SURVEY FORMS

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase 2, Campbell State CA County Riverside
 USGS Quad Name Alberhill, CA Elevation 360 (meters)
 Creek, River, Wetland, or Lake Name unnamed
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes X No

Survey Coordinates: Start: E 458002 N 3734212 UTM Datum NAD27 (See instructions)
 Stop: E 457767 N 3733981 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Observer(s)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Survey #	Date	Observer(s)						# Birds	Sex	UTM E	UTM N
2013 Date (m/d/y) Survey time PST											
Survey # 1	17 May	Green (see below)	0	0	0	N	Brown-headed Cowbird (BHCO)				
Survey # 2	7 Jun	Stephen Myers TE 804203	0	0	0	N	BHCO in survey area				
Survey # 3	17 Jun	Green	0	0	0	N	—				
Survey # 4	27 Jun	Myers	0	0	0	N	BHCO in survey area				
Survey # 5	9 Jul	Green	0	0	0	N	—				
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. see comments Be careful not to double count individuals. Total Survey Hrs 16			Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <u> </u> No <u> </u> If yes, report color combination(s) in the comments section on back of form and report to USFWS. N/A				

Reporting Individual John F. Green Date Report Completed 19 August 2013
 US Fish and Wildlife Service Permit # TE054011 State Wildlife Agency Permit # SC-001951 attachment
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley - Ivyglen Phase 2, Campbell Date Report Completed 19 August, 2013
 Was this site surveyed in a previous year? ~~Yes~~ No ☒ Unknown ____
 Did you verify that this site name is consistent with that used in previous years? Yes ☒ No ____ Not Applicable ☒
 If site 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 below.
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ____ If no, summarize below.

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

Length of area surveyed: 0.37 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
 ____ Mixed native and exotic plants (mostly native, 50 - 90% native)
 ____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
 ____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia

Average height of canopy (Do not include a range): 10 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

Survey times are for full morning, including visits to other patches.

(Campbell Ranch Survey Area)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase 2 Fire Station State CA County Riverside
 USGS Quad Name Lake Matthews, CA Elevation 340 (meters)
 Creek, River, Wetland, or Lake Name undrained
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes X No

Survey Coordinates: Start: E 457693 N 3734741 UTM Datum NAD27 (See instructions)
 Stop: E 457550 N 3734513 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Survey time						# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) Green (see below)	Date 17 May Start 0455 Stop 0800 3h, 5m Total hrs	0	0	0	N	—				
Survey # 2 Observer(s) Stephen Myers TE 804203	Date 7 Jun Start 0455 Stop 0840 3h, 55m Total hrs	0	0	0	N	Brown-headed cowbird (BHCO) in survey area				
Survey # 3 Observer(s) Green	Date 17 Jun Start 0550 Stop 0830 2h, 40m Total hrs	0	0	0	N	—				
Survey # 4 Observer(s) Myers	Date 27 Jun Start 0415 Stop 0805 3h, 50m Total hrs	0	0	0	N	BHCO in survey area				
Survey # 5 Observer(s) Green	Date 9 Jul Start 0530 Stop 0800 2.5 Total hrs	0	0	0	N	—				
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. See comments Be careful not to double count individuals. Total Survey Hrs 16		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <u> </u> No <u> </u> If yes, report color combination(s) in the comments section on back of form and report to USFWS. N/A				

Reporting Individual John F. Green

Date Report Completed 19 August 2013

US Fish and Wildlife Service Permit # TE054011

State Wildlife Agency Permit # SC-001951 attachment

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

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley - Ivyglen Phase 2, Fire Station Date Report Completed 19 August, 2013
 Was this site surveyed in a previous year? ~~Yes~~ No ☒ Unknown ____
 Did you verify that this site name is consistent with that used in previous years? ~~Yes~~ No ____ Not Applicable ☒
 If site 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 below.
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ____ If no, summarize below.
 Management Authority for Survey Area: Federal ____ Municipal/County ____ State ____ Tribal ____ Private ____
 Name of Management Entity or Owner (e.g., Tonto National Forest) Unknown

Length of area surveyed: 0.37 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
 ____ Mixed native and exotic plants (mostly native, 50 - 90% native)
 ____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
 ____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia

Average height of canopy (Do not include a range): 7 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

Survey times are for full morning, including visits to other patches.

(Campbell Ranch Survey area)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase 2 Soapberry State CA County Riverside
 USGS Quad Name Lake Mathews, CA Elevation 340 (meters)
 Creek, River, Wetland, or Lake Name unnamed
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes X No

Survey Coordinates: Start: E 457529 N 3734889 UTM Datum NAD27 (See instructions)
 Stop: E 457135 N 3735290 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)							# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) Green (see below)	Date 17 May Start 0455 Stop 0800 3h, 5m Total hrs	0	0	0	N	—				
Survey # 2 Observer(s) Stephen Myers TE 804203	Date 7 Jun Start 0445 Stop 0840 3h, 55m Total hrs	0	0	0	N	Brown-headed Cowbird (BHCO) in survey area				
Survey # 3 Observer(s) Green	Date 17 Jun Start 0550 Stop 0830 2h, 40m Total hrs	0	0	0	N	—				
Survey # 4 Observer(s) Myers	Date 27 Jun Start 0415 Stop 0805 3h, 50m Total hrs	0	0	0	N	BHCO in survey area				
Survey # 5 Observer(s) Green	Date 9 Jul Start 0530 Stop 0800 2.5 Total hrs	0	0	0	N	—				
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. See comment Be careful not to double count individuals.		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <u> </u> No <u> </u> If yes, report color combination(s) in the comments section on back of form and report to USFWS. <u>N/A</u>				
Total Survey Hrs <u>16</u>		0	0	0	0					

Reporting Individual John F. Green Date Report Completed 19 August 2013
 US Fish and Wildlife Service Permit # TE054011 State Wildlife Agency Permit # SC-001951 attachment
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley - Ivyglen Phase 2, Soapberry Date Report Completed 19 August, 2013
 Was this site surveyed in a previous year? ~~Yes~~ No ☒ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☒ No ☐ Not Applicable ☒
 If site 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 below.
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below.
 Management Authority for Survey Area: Federal ☐ Municipal/County ☐ State ☐ Tribal ☐ Private ☐
 Name of Management Entity or Owner (e.g., Tonto National Forest) Unknown

Length of area surveyed: 0.55 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia.

Average height of canopy (Do not include a range): 5 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

Survey times are for full morning, including visits to other patches.

(Campbell Ranch survey area)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase 2, Triplet State CA County Riverside
 USGS Quad Name Lake Mathews, CA Elevation 340 (meters)
 Creek, River, Wetland, or Lake Name unnamed
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes X No

Survey Coordinates: Start: E 456844 N 3735397 UTM Datum NAD27 (See instructions)
 Stop: E 456567 N 3735471 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Observer(s)	Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.
Survey # 1	Date 17 May	Observer(s) Green (see below)	Start 0655 Stop 0800 3h, 5m Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Survey # 2	Date 7 Jun	Observer(s) Stephen Myers TE 804203	Start 0445 Stop 0840 3h, 55m Total hrs	0	0	0	N	Brown-headed Cowbird (BHCO) in survey area	# Birds Sex UTM E UTM N
Survey # 3	Date 7 Jun	Observer(s) Green	Start 0550 Stop 0830 2h, 40m Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Survey # 4	Date 27 Jun	Observer(s) Myers	Start 0415 Stop 0805 3h, 50m Total hrs	0	0	0	N	BHCO in survey area	# Birds Sex UTM E UTM N
Survey # 5	Date 9 Jul	Observer(s) Green	Start 0530 Stop 0800 2.5 Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. See comments Be careful not to double count individuals.				Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <u> </u> No <u> </u> If yes, report color combination(s) in the comments section on back of form and report to USFWS. N/A	
Total Survey Hrs 16				0	0	0	0		

Reporting Individual John F. Green Date Report Completed 19 August 2013
 US Fish and Wildlife Service Permit # TE054011 State Wildlife Agency Permit # SC-001951 attachment
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley-Ivyglen Phase 2, Triplet Date Report Completed 19 August, 2013
 Was this site surveyed in a previous year? ~~Yes~~ No ☒ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? ~~Yes~~ No ☐ Not Applicable ☒
 If site 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 below.
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below.
 Management Authority for Survey Area: Federal ☐ Municipal/County ☐ State ☐ Tribal ☐ Private ☐
 Name of Management Entity or Owner (e.g., Tonto National Forest) Unknown

Length of area surveyed: 0.32 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia.

Average height of canopy (Do not include a range): 5 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

Survey times are for full morning, including visits to other patches.

(Campbell Ranch Survey area)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase 2 Basin State CA County Riverside
 USGS Quad Name Lake Mathews, CA Elevation 320 (meters)
 Creek, River, Wetland, or Lake Name Basin
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes X No

Survey Coordinates: Start: E 456189 N 3735514 UTM Datum NAD27 (See instructions)
 Stop: E 456207 N 3735393 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats (livestock, cowbirds, <i>Diorhabda</i> spp.)). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.
Survey # 1 Observer(s) Green (see below)	Date 7 May Start 0455 Stop 0800 3h, 5m Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Survey # 2 Observer(s) Stephen Myers TE 804203	Date 7 Jun Start 0445 Stop 0840 3h, 55m Total hrs	0	0	0	N	Brown-headed Cowbird (BHCO) in survey area	# Birds Sex UTM E UTM N
Survey # 3 Observer(s) Green	Date 7 Jun Start 0550 Stop 0830 2h, 40m Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Survey # 4 Observer(s) Myers	Date 27 Jun Start 0415 Stop 0805 3h, 50m Total hrs	0	0	0	N	BHCO in survey area	# Birds Sex UTM E UTM N
Survey # 5 Observer(s) Green	Date 9 Jun Start 0530 Stop 0800 2.5 Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. see comments Be careful not to double count individuals. Total Survey Hrs 16		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <u> </u> No <u> </u> If yes, report color combination(s) in the comments section on back of form and report to USFWS. N/A	

Reporting Individual John F. Green Date Report Completed 19 August 2013
 US Fish and Wildlife Service Permit # TE054011 State Wildlife Agency Permit # SC-001951 attachment
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley-Ivyglen Phase 2, Basin Date Report Completed 19 August, 2013
 Was this site surveyed in a previous year? Yes ☒ No ☐ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☒ No ☐ Not Applicable ☐
 If site 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 below.
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below.
 *larger than last year
 Management Authority for Survey Area: Federal ☐ Municipal/County ☐ State ☐ Tribal ☐ Private ☐
 Name of Management Entity or Owner (e.g., Tonto National Forest) unknown

Length of area surveyed: 0.21 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☒ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Tamarix ramosissima
Salix spp., Baccharis salicifolia

Average height of canopy (Do not include a range): 5 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

Survey times are for full morning, including visits to other patches.

(Campbell Survey area)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase 2, Ternesca Wash State CA County Riverside
 USGS Quad Name Lake Mathews Elevation 310 (meters)
 Creek, River, Wetland, or Lake Name Ternesca Wash
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes X No

Survey Coordinates: Start: E 456839 N 3735923 UTM Datum NAD27 (See instructions)
 Stop: E 457950 N 3735146 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Observer(s)	Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats (livestock, cowbirds, <i>Diorhabda</i> spp.)). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.																				
Survey # 1	Date <u>15 May</u>	Observer(s) <u>Stephen Myers</u>	Start <u>0455</u> Stop <u>0910</u> Total hrs <u>4.25</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>Brown-headed cowbird x 1 (BHCO)</u>	<table border="1"> <tr> <th># Birds</th> <th>Sex</th> <th>UTM E</th> <th>UTM N</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	# Birds	Sex	UTM E	UTM N																
# Birds	Sex	UTM E	UTM N																										
Survey # 2	Date <u>3 Jun</u>	Observer(s) <u>Green</u> (see below)	Start <u>0700</u> Stop <u>1000</u> Total hrs <u>3</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>BHCO juvenile x 1</u>	<table border="1"> <tr> <th># Birds</th> <th>Sex</th> <th>UTM E</th> <th>UTM N</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	# Birds	Sex	UTM E	UTM N																
# Birds	Sex	UTM E	UTM N																										
Survey # 3	Date <u>17 Jun</u>	Observer(s) <u>Myers</u>	Start <u>0425</u> Stop <u>0910</u> Total hrs <u>4.75</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u> </u>	<table border="1"> <tr> <th># Birds</th> <th>Sex</th> <th>UTM E</th> <th>UTM N</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	# Birds	Sex	UTM E	UTM N																
# Birds	Sex	UTM E	UTM N																										
Survey # 4	Date <u>1 Jul</u>	Observer(s) <u>Myers</u>	Start <u>0420</u> Stop <u>0830</u> Total hrs <u>4h, 10m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>BHCO x 1</u>	<table border="1"> <tr> <th># Birds</th> <th>Sex</th> <th>UTM E</th> <th>UTM N</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	# Birds	Sex	UTM E	UTM N																
# Birds	Sex	UTM E	UTM N																										
Survey # 5	Date <u>15 Jul</u>	Observer(s) <u>Green</u>	Start <u>0515</u> Stop <u>0905</u> Total hrs <u>3h, 50m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>BHCO x 3</u>	<table border="1"> <tr> <th># Birds</th> <th>Sex</th> <th>UTM E</th> <th>UTM N</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	# Birds	Sex	UTM E	UTM N																
# Birds	Sex	UTM E	UTM N																										
Overall Site Summary			Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. Be careful not to double count individuals. <u>20h, 10min.</u> Total Survey Hrs																										
Total Adult Residents			Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <u> </u> No <u> </u> If yes, report color combination(s) in the comments section on back of form and report to USFWS. <u>N/A</u>																							
<u>0</u>			<u>0</u>	<u>0</u>	<u>0</u>																								

Reporting Individual John F. Green Date Report Completed 19 August 2013
 US Fish and Wildlife Service Permit # TE054011 State Wildlife Agency Permit # SC-001951 attachment
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley - Ivyglen Phase 2, Temescal Wash Date Report Completed 19 August, 2013
 Was this site surveyed in a previous year? Yes ☒ No ☐ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☒ No ☐ Not Applicable ☐
 If site 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 below. _____
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below. Slight shift from last year
 Management Authority for Survey Area: Federal ☐ Municipal/County ☐ State ☐ Tribal ☐ Private ☐
 Name of Management Entity or Owner (e.g., Tonto National Forest) Unknown

Length of area surveyed: 1.35 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Populus fremontii
Salix spp., Baccharis salicifolia

Average height of canopy (Do not include a range): 15 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

Survey times are for full morning, including visits to other patches.

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase 2, Mayhew State CA County Riverside
 USGS Quad Name _____ Elevation 320 (meters)
 Creek, River, Wetland, or Lake Name unmarked
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 456519 N 3735684 UTM Datum NAD27 (See instructions)
 Stop: E 456625 N 3735620 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats (livestock, cowbirds, <i>Diorhabda</i> spp.)). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Survey time						# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) <u>Green</u> (see below)	Date <u>15 May</u> Start <u>0450</u> Stop <u>0915</u> Total hrs <u>4h, 25m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	_____				
Survey # 2 Observer(s) <u>Green</u>	Date <u>4 Jun</u> Start <u>0510</u> Stop <u>0905</u> Total hrs <u>3h, 55m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	_____				
Survey # 3 Observer(s) <u>Stephen Myers</u> <u>TE</u> <u>804203</u>	Date <u>20 Jun</u> Start <u>0440</u> Stop <u>0900</u> Total hrs <u>4h, 20m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	_____				
Survey # 4 Observer(s) <u>Green</u>	Date <u>1 Jul</u> Start <u>0450</u> Stop <u>0840</u> Total hrs <u>3h, 50m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	_____				
Survey # 5 Observer(s) <u>Myers</u>	Date <u>16 Jul</u> Start <u>0445</u> Stop <u>0850</u> Total hrs <u>4h, 5m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	_____				
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. <u>see comments</u> Be careful not to double count individuals. Total Survey Hrs <u>20h, 35m.</u>		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS. <u>N/A</u>				

Reporting Individual John F. Green Date Report Completed 19 August 2013
 US Fish and Wildlife Service Permit # TE054011 State Wildlife Agency Permit # SC-001951 attachment
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley - Ivyglen Phase 2, Mayhew Date Report Completed 19 August, 2013
 Was this site surveyed in a previous year? Yes ☒ No ☐ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☒ No ☐ Not Applicable ☐
 If site 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 below.
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below.
* Slightly smaller area this year
 Management Authority for Survey Area: Federal ☐ Municipal/County ☐ State ☐ Tribal ☐ Private ☐
 Name of Management Entity or Owner (e.g., Tonto National Forest) Unknown

Length of area surveyed: 0.15 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia

Average height of canopy (Do not include a range): 5 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

Survey times are for full morning, including visits to other patches.

(Northwest Survey area)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase 2 El Herrero State CA County Riverside
 USGS Quad Name Lake Matthews Elevation 315 (meters)
 Creek, River, Wetland, or Lake Name unnamed
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 457285 N 3735392 UTM Datum NAD27 (See instructions)
 Stop: E 457592 N 3735280 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y) Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.
Survey # 1 Observer(s) Green (see below)	Date 15 May Start 0450 Stop 0915 4h, 25m Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Survey # 2 Observer(s) Green	Date 4 Jun Start 0510 Stop 0905 3h, 55m Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Survey # 3 Observer(s) Stephen Myers TE 804203	Date 20 Jun Start 0440 Stop 0900 4h, 20m Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Survey # 4 Observer(s) Green	Date 1 Jul Start 0450 Stop 0840 3h, 50m Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Survey # 5 Observer(s) Myers	Date 16 Jul Start 0445 Stop 0850 4h, 5m Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. see comments Be careful not to double count individuals. 20h, 35min. Total Survey Hrs		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS. N/A	

Reporting Individual John F. Green Date Report Completed 19 August 2013
 US Fish and Wildlife Service Permit # TE054011 State Wildlife Agency Permit # SC-001951 attachment
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley - Ivyglen Phase 2, El Herrmano Date Report Completed 19 August, 2013
 Was this site surveyed in a previous year? Yes ☒ No ☐ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☒ No ☐ Not Applicable ☐
 If site 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 below.
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below.
slightly smaller area
 Management Authority for Survey Area: Federal ☐ Municipal/County ☐ State ☐ Tribal ☐ Private ☐
 Name of Management Entity or Owner (e.g., Tonto National Forest) unknown

Length of area surveyed: 0.41 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia.

Average height of canopy (Do not include a range): 10 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

Survey times are for full morning, including visits to other patches.

(Northwest survey area)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase 2 Yard State CA County Riverside
 USGS Quad Name Lake Matthews, CA Elevation 320 (meters)
 Creek, River, Wetland, or Lake Name unnamed
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes X No

Survey Coordinates: Start: E 457767 N 3734904 UTM Datum NAD27 (See instructions)
 Stop: E 457791 N 3734938 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Observer(s)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Survey #	Date	Observer(s)						# Birds	Sex	UTM E	UTM N
2013											
Observer(s)	Survey time										
Survey # 1	15 May	Green (see below)	0	0	0	N					
Observer(s)	Start 0450										
	Stop 0915										
	4h, 25m										
	Total hrs										
Survey # 2	4 Jun	Green	0	0	0	N					
Observer(s)	Start 0510										
	Stop 0905										
	3h, 55m										
	Total hrs										
Survey # 3	20 Jun	Stephen Myers	0	0	0	N					
Observer(s)	Start 0440										
	Stop 0900										
	4h, 20m										
	Total hrs										
Survey # 4	1 Jul	Green	0	0	0	N					
Observer(s)	Start 0450										
	Stop 0840										
	3h, 50m										
	Total hrs										
Survey # 5	16 Jul	Myers	0	0	0	N					
Observer(s)	Start 0445										
	Stop 0850										
	4h, 5m										
	Total hrs										
Overall Site Summary			Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <u> </u> No <u> </u>				
Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings.							If yes, report color combination(s) in the comments section on back of form and report to USFWS.				
see comments			0	0	0	0	N/A				
Be careful not to double count individuals.											
20h, 35m											
Total Survey Hrs											

Reporting Individual John F. Green Date Report Completed 19 August 2013
 US Fish and Wildlife Service Permit # TE054011 State Wildlife Agency Permit # SC-001951 attachment
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley - Ivyglen Phase 2, yard Date Report Completed 19 August, 2013
 Was this site surveyed in a previous year? Yes ☒ No ☐ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☒ No ☐ Not Applicable ☐
 If site 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 below.
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below.
 Management Authority for Survey Area: Federal ☐ Municipal/County ☐ State ☐ Tribal ☐ Private ☐
 Name of Management Entity or Owner (e.g., Tonto National Forest) Unknown

Length of area surveyed: 0.05 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia.

Average height of canopy (Do not include a range): 5 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

Survey times are for full morning, including visits to other patches.

(Northwest survey area)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase 2 Indian Truck Trail State CA County Riverside
 USGS Quad Name Aberhill & Lake Mathews, CA Elevation 345 (meters)
 Creek, River, Wetland, or Lake Name unnamed
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes X No

Survey Coordinates: Start: E 458302 N 3734223 UTM Datum NAD27 (See instructions)
 Stop: E 458725 N 3734336 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	2013						GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Date (m/d/y) Survey time PST	Number of Adult WIFLs	Estimate d Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	# Birds	Sex	UTM E	UTM N
Survey # 1 Observer(s) Green (see below)	Date 15 May Start 0450 Stop 0915 4h, 25m Total hrs	0	0	0	N	—				
Survey # 2 Observer(s) Green	Date 4 Jun Start 0510 Stop 0905 3h, 55m Total hrs	0	0	0	N	—				
Survey # 3 Observer(s) Stephen Myers TE 804203	Date 20 Jun Start 0440 Stop 0900 4h, 20m Total hrs	0	0	0	N	—				
Survey # 4 Observer(s) Green	Date 1 Jul Start 0450 Stop 0840 3h, 50m Total hrs	0	0	0	N	Brown-headed cowbirds X3				
Survey # 5 Observer(s) Myers	Date 16 Jul Start 0445 Stop 0850 4h, 5m Total hrs	0	0	0	N	—				
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. see comments Be careful not to double count individuals. 20h, 35m Total Survey Hrs		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <u> </u> No <u> </u> If yes, report color combination(s) in the comments section on back of form and report to USFWS. N/A				

Reporting Individual John F. Green Date Report Completed 19 August 2013
 US Fish and Wildlife Service Permit # TE054011 State Wildlife Agency Permit # SC-001951 attachment
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley - Ivyglen Phase 2, Indian Truck Trail Date Report Completed 19 August, 2013
 Was this site surveyed in a previous year? Yes ☒ No ☐ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☒ No ☐ Not Applicable ☐
 If site 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 below. _____
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below. _____
 *Larger survey area than last year
 Management Authority for Survey Area: Federal ☐ Municipal/County ☐ State ☐ Tribal ☐ Private ☐
 Name of Management Entity or Owner (e.g., Tonto National Forest) unknown

Length of area surveyed: 0.71 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia

Average height of canopy (Do not include a range): 10 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

Survey times are for full morning, including visits to other patches.

(Northwest survey area)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase 2, De Palma State CA County Riverside
 USGS Quad Name Alberhill, CA Elevation 365 (meters)
 Creek, River, Wetland, or Lake Name unnamed
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 459297 N 3733474 UTM Datum NAD27 (See instructions)
 Stop: E 459233 N 3733342 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats (livestock, cowbirds, <i>Diorhabda</i> spp.)). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Survey time						# Birds	Sex	UTM E	UTM N
2013 PST										
Survey # 1 Observer(s) Green (see below)	Date 15 May Start 0450 Stop 0915 4h, 25m Total hrs	0	0	0	N	—				
Survey # 2 Observer(s) Green	Date 4 Jun Start 0510 Stop 0905 3h, 55m Total hrs	0	0	0	N	—				
Survey # 3 Observer(s) Stephen Myers TE 804203	Date 20 Jun Start 0440 Stop 0900 4h, 20m Total hrs	0	0	0	N	—				
Survey # 4 Observer(s) Green	Date 1 Jul Start 0450 Stop 0840 3h, 50m Total hrs	0	0	0	N	—				
Survey # 5 Observer(s) Myers	Date 16 Jul Start 0445 Stop 0850 4h, 5m Total hrs	0	0	0	N	—				
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. see comments Be careful not to double count individuals. 20h, 35m Total Survey Hrs		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS. N/A				

Reporting Individual John F. Green Date Report Completed 19 August 2013
 US Fish and Wildlife Service Permit # TE054011 State Wildlife Agency Permit # SC-001951 attachment
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley - Iviglen Phase 2, De Palma Date Report Completed 19 August, 2013
 Was this site surveyed in a previous year? Yes ☒ No ☐ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☒ No ☐ Not Applicable ☐
 If site 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 below.
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below.
Slightly smaller this year
 Management Authority for Survey Area: Federal ☐ Municipal/County ☐ State ☐ Tribal ☐ Private ☐
 Name of Management Entity or Owner (e.g., Tonto National Forest) Unknown

Length of area surveyed: 0.16 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia.

Average height of canopy (Do not include a range): 5 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

Survey times are for full morning, including visits to other patches.

(Northwest survey area)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase 2 Horsethief West State CA County Riverside
 USGS Quad Name Alberhill Elevation 400 (meters)
 Creek, River, Wetland, or Lake Name unmarked
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes X No

Survey Coordinates: Start: E 460552 N 3732964 UTM Datum NAD27 (See instructions)
 Stop: E 460466 N 3732642 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Observer(s)	Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats (livestock, cowbirds, <i>Diorhabda</i> spp.)). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.
Survey # 1	2013 Date 5 May	Green (see below)	Start 0450 Stop 0915 4h, 25m Total hrs	0	0	0	N		# Birds Sex UTM E UTM N
Survey # 2	4 Jun	Green	Start 0510 Stop 0905 3h, 55m Total hrs	0	0	0	N		# Birds Sex UTM E UTM N
Survey # 3	20 Jun	Stephen Myers TE 804203	Start 0440 Stop 0900 4h, 20m Total hrs	0	0	0	N		# Birds Sex UTM E UTM N
Survey # 4	1 Jun	Green	Start 0450 Stop 0840 3h, 50m Total hrs	0	0	0	N		# Birds Sex UTM E UTM N
Survey # 5	16 Jul	Myers	Start 0445 Stop 0850 4h, 5m Total hrs	0	0	0	N		# Birds Sex UTM E UTM N
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. see comments Be careful not to double count individuals. 20h, 35m Total Survey Hrs				Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <u> </u> No <u> </u> If yes, report color combination(s) in the comments section on back of form and report to USFWS. <u>N/A</u>	

Reporting Individual John F. Green Date Report Completed 19 August 2013
 US Fish and Wildlife Service Permit # TE054011 State Wildlife Agency Permit # SC-001951 attachment
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley - Ivyglen Phase 2, Horsethief west Date Report Completed 19 August, 2013
 Was this site surveyed in a previous year? Yes ☒ No ☐ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☒ No ☐ Not Applicable ☐
 If site 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 below. _____
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below. _____
 Management Authority for Survey Area: Federal ☐ Municipal/County ☐ State ☐ Tribal ☐ Private ☐
 Name of Management Entity or Owner (e.g., Tonto National Forest) Unknown

Length of area surveyed: 0.32 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia,

Average height of canopy (Do not include a range): 5 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

Survey times are for full morning, including visits to other patches.

(Northwest survey area)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase 2, Horseshoe East State CA County Riverside
 USGS Quad Name Alberhill, CA Elevation 400 (meters)
 Creek, River, Wetland, or Lake Name unnamed
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 460892 N 3732717 UTM Datum NAD27 (See instructions)
 Stop: E 460718 N 3732467 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Observer(s)	Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.
Survey # 1	15 May	Green	Start 0450 Stop 0915 4h, 25m Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Survey # 2	4 Jun	Green	Start 0510 Stop 0905 3h, 55m Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Survey # 3	20 Jun	Stephen Myers TE	Start 0440 Stop 0900 4h, 20m Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Survey # 4	1 Jul	Green	Start 0450 Stop 0840 3h, 50m Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Survey # 5	16 Jul	Myers	Start 0445 Stop 0830 4h, 5m Total hrs	0	0	0	N	—	# Birds Sex UTM E UTM N
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. see comments Be careful not to double count individuals. 20 h, 35 m Total Survey Hrs				Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS. N/A	

Reporting Individual John F. Green Date Report Completed 19 August 2013
 US Fish and Wildlife Service Permit # TE054011 State Wildlife Agency Permit # SC-001951 attachment
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley - Ivyglen Phase 2, Horseshoe East Date Report Completed 19 August, 2013
 Was this site surveyed in a previous year? Yes ☒ No ☐ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☒ No ☐ Not Applicable ☐
 If site 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 below.
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below.
 *larger area surveyed this year
 Management Authority for Survey Area: Federal ☐ Municipal/County ☐ State ☐ Tribal ☐ Private ☐
 Name of Management Entity or Owner (e.g., Tonto National Forest) Unknown

Length of area surveyed: 0.37 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia

Average height of canopy (Do not include a range): 10 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

Survey times are for full morning, including visits to other patches.

(Northwest survey area)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase 2, Lake Street State CA County Riverside
 USGS Quad Name Alberhill, Ca Elevation 380 (meters)
 Creek, River, Wetland, or Lake Name unnamed + Walker Canyon/Terrisca Wash
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes X No

Survey Coordinates: Start: E 463659 N 3731899 UTM Datum NAD27 (See instructions)
 Stop: E 464727 N 3730095 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N If Yes, number of nests	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.			
Observer(s) (Full Name)	Survey time						# Birds	Sex	UTM E	UTM N
2013 PST										
Survey # 1 Observer(s) Green (see below)	Date <u>29 May</u> Start <u>0430</u> Stop <u>0635</u> 2h, 5m Total hrs <u> </u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	Some habitat was cleared, reducing survey area				
Survey # 2 Observer(s) Stephen Myers TE 804203	Date <u>3 Jun</u> Start <u>0700</u> Stop <u>0915</u> 2.25 Total hrs <u> </u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	—				
Survey # 3 Observer(s) Green	Date <u>19 Jun</u> Start <u>0740</u> Stop <u>0850</u> 1h, 10m Total hrs <u> </u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	—				
Survey # 4 Observer(s) Myers	Date <u>3 Jul</u> Start <u>0445</u> Stop <u>0715</u> Total hrs <u>1.5</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	—				
Survey # 5 Observer(s) Myers	Date <u>15 Jul</u> Start <u>0710</u> Stop <u>0855</u> 1.75 Total hrs <u> </u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	—				
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. see comments Be careful not to double count individuals.		Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <u> </u> No <u> </u> If yes, report color combination(s) in the comments section on back of form and report to USFWS. <u>N/A</u>				
Total Survey Hrs <u>8.75</u>		<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>					

Reporting Individual John F. Green Date Report Completed 19 August 2013
 US Fish and Wildlife Service Permit # TE054011 State Wildlife Agency Permit # SC-001951 attachment
 Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley - Ivyglen Phase 2, Lake Street Date Report Completed 19 August, 2013
 Was this site surveyed in a previous year? Yes ☒ No ☐ Unknown ☐
 Did you verify that this site name is consistent with that used in previous years? Yes ☒ No ☐ Not Applicable ☐
 If site name is different, what name(s) was used in the past? Lake Street Mulefat Area
 If site was surveyed last year, did you survey the same general area this year? Yes ☒ No ☐ If no, summarize below*
 Did you survey the same general area during each visit to this site this year? Yes ☒ No ☐ If no, summarize below.
 *larger area this year
 Management Authority for Survey Area: Federal ☐ Municipal/County ☒ State ☐ Tribal ☐ Private ☒
 Name of Management Entity or Owner (e.g., Tonto National Forest) unknown

Length of area surveyed: 2.3 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
☐ Mixed native and exotic plants (mostly native, 50 - 90% native)
☐ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
☐ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia

Average height of canopy (Do not include a range): 5 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

Survey times are for full morning, including visits to other patches.

(Southeast survey area - Phase 2)

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

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

Attach additional sheets if necessary

Appendix 1. Willow Flycatcher Survey and Detection Form

Always check the U.S. Fish and Wildlife Service Arizona Ecological Services Field Office web site (<http://www.fws.gov/southwest/es/arizona/>) for the most up-to-date version.

Willow Flycatcher (WIFL) Survey and Detection Form (revised April 2010)

Site Name Valley-Ivyglen, Phase 2, Pasadena State CA County Riverside
 USGS Quad Name Lake Elsinore, CA Elevation 390 (meters)
 Creek, River, Wetland, or Lake Name unmarked
 Is copy of USGS map marked with survey area and WIFL sightings attached (as required)? Yes ☒ No ☐

Survey Coordinates: Start: E 468446 N 3726999 UTM Datum NAD27 (See instructions)
 Stop: E 468529 N 3727010 UTM Zone 11

If survey coordinates changed between visits, enter coordinates for each survey in comments section on back of this page.

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

Survey #	Date (m/d/y)	Observer(s)	Survey time	Number of Adult WIFLs	Estimated Number of Pairs	Estimated Number of Territories	Nest(s) Found? Y or N	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, <i>Diorhabda</i> spp.]). If <i>Diorhabda</i> found, contact USFWS and State WIFL coordinator	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found on each survey). Include additional sheets if necessary.																				
Survey # 1	Date <u>20 May</u>	Observer(s) <u>Green</u> (see below)	Start <u>0430</u> Stop <u>0635</u> Total hrs <u>2.5</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>—</u>	<table border="1"> <tr> <th># Birds</th> <th>Sex</th> <th>UTM E</th> <th>UTM N</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	# Birds	Sex	UTM E	UTM N																
# Birds	Sex	UTM E	UTM N																										
Survey # 2	Date <u>3 June</u>	Observer(s) <u>Stephen Myers</u> TE	Start <u>0700</u> Stop <u>0915</u> Total hrs <u>2.25</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>—</u>	<table border="1"> <tr> <th># Birds</th> <th>Sex</th> <th>UTM E</th> <th>UTM N</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	# Birds	Sex	UTM E	UTM N																
# Birds	Sex	UTM E	UTM N																										
Survey # 3	Date <u>9 Jun</u>	Observer(s) <u>Green</u>	Start <u>0740</u> Stop <u>0850</u> Total hrs <u>1h, 10m</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>Brown-headed Cowbird x 3</u>	<table border="1"> <tr> <th># Birds</th> <th>Sex</th> <th>UTM E</th> <th>UTM N</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	# Birds	Sex	UTM E	UTM N																
# Birds	Sex	UTM E	UTM N																										
Survey # 4	Date <u>3 Jul</u>	Observer(s) <u>Myers</u>	Start <u>0445</u> Stop <u>0715</u> Total hrs <u>1.5</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>—</u>	<table border="1"> <tr> <th># Birds</th> <th>Sex</th> <th>UTM E</th> <th>UTM N</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	# Birds	Sex	UTM E	UTM N																
# Birds	Sex	UTM E	UTM N																										
Survey # 5	Date <u>5 Jul</u>	Observer(s) <u>Myers</u>	Start <u>0710</u> Stop <u>0855</u> Total hrs <u>1.75</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N</u>	<u>—</u>	<table border="1"> <tr> <th># Birds</th> <th>Sex</th> <th>UTM E</th> <th>UTM N</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>	# Birds	Sex	UTM E	UTM N																
# Birds	Sex	UTM E	UTM N																										
Overall Site Summary Totals do not equal the sum of each column. Include only resident adults. Do not include migrants, nestlings, and fledglings. see comments Be careful not to double count individuals.				Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatchers color-banded? Yes <input type="checkbox"/> No <input type="checkbox"/> If yes, report color combination(s) in the comments section on back of form and report to USFWS.																					
Total Survey Hrs <u>8.75</u>				<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>N/A</u>																					

Reporting Individual John F. Green Date Report Completed 19 August 2013
 US Fish and Wildlife Service Permit # TE054011 State Wildlife Agency Permit # SC-001951 attachment
Submit form to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

32 A Natural History Summary and Survey Protocol for the Southwestern Willow Flycatcher

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

Reporting Individual John F. Green Phone # 951-369-8060
 Affiliation AMEC E-mail john.f.green@amec.com
 Site Name Valley - Ivyglen Phase 2, Pasadena Date Report Completed 19 August, 2013
 Was this site surveyed in a previous year? ~~Yes~~ No ☒ Unknown _____
 Did you verify that this site name is consistent with that used in previous years? ~~Yes~~ No _____ Not Applicable ☒
 If site 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 below.
 Did you survey the same general area during each visit to this site this year? Yes ☒ No _____ If no, summarize below.
 Management Authority for Survey Area: Federal _____ Municipal/County _____ State _____ Tribal _____ Private _____
 Name of Management Entity or Owner (e.g., Tonto National Forest) Unknown

Length of area surveyed: 0.09 (km)

Vegetation Characteristics: Check (only one) category that best describes the predominant tree/shrub foliar layer at this site:

- ☒ Native broadleaf plants (entirely or almost entirely, > 90% native)
 _____ Mixed native and exotic plants (mostly native, 50 - 90% native)
 _____ Mixed native and exotic plants (mostly exotic, 50 - 90% exotic)
 _____ Exotic/introduced plants (entirely or almost entirely, > 90% exotic)

Identify the 2-3 predominant tree/shrub species in order of dominance. Use scientific names. Salix spp., Baccharis salicifolia.

Average height of canopy (Do not include a range): 5 (meters)

Attach the following: 1) copy of USGS quad/topographical map (REQUIRED) of survey area, outlining survey site and location of WIFL detections; 2) sketch or aerial photo showing site location, patch shape, survey route, location of any detected WIFLs or their nests; 3) photos of the interior of the patch, exterior of the patch, and overall site. Describe any unique habitat features in Comments.

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

Survey times are for full morning, including visits to other patches.

(southeast survey area - phase 2)

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

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

Attach additional sheets if necessary

Yellow-Billed Cuckoo (YBCU) Survey Detection Form

Page 1 of 1

☐ Non-Survey Detection (check box)

☒ Total YBCU Detected

Site Code: <u>VIG Phase 2</u>	Site Name: <u>Temescal Wash</u>	Survey Period: <u>1</u>	Visit #: <u>1</u>	Date (mm/dd/yy): <u>06/17/13</u>
River Drainage: <u>Temescal Wash</u>	State: <u>CA</u>	County: <u>Riverside</u>	Observers: <u>Stephen Myers</u>	
Survey Start Time: <u>PST 0425</u>	Wind: <u>0-3</u>	cloud cover: <u>0</u>	Precip: <u>0</u>	Noise: <u>0</u>
Survey Start Time: <u>end 0910</u>	Wind: <u>0-3</u>	cloud cover: <u>0</u>	Precip: <u>0</u>	Noise: <u>0</u>
GPS #: <u>NAD 27</u>	Start Easting: <u>4 5 7 9 4 5</u>	Start Northing: <u>3 7 3 5 1 4 2</u>	GPS Acc. (m): <u>—</u>	Humidity: <u>Moderate</u>
Zone: <u>11</u>	Stop Easting: <u>4 5 6 8 3 1</u>	Stop Northing: <u>3 7 3 5 9 5 2</u>	GPS Acc. (m): <u>—</u>	Temp: <u>81</u>

Point Start Time	UTM Coordinates												Waypoint Number	YBCU Det #	Time of Detection	Detection Type	Compass Bearing	Estimated Distance (m)	Est. Dist. Acc.	Vocal Code	Behavior / Breeding	Note #
	Easting						Northing															
0935	4	5	7	8	2	5	3	7	3	5	1	9	6	1								
0810	4	5	7	7	4	7	3	7	3	5	2	5	6	2								
0745	4	5	7	6	8	2	3	7	3	5	3	2	6	3								
0440	4	5	7	3	0	6	3	7	3	5	6	7	9	4								
0505	4	5	7	2	2	4	3	7	3	5	7	1	4	5								
0530	4	5	7	1	2	0	3	7	3	5	7	3	5	6								
0535	4	5	7	0	2	5	3	7	3	5	7	7	0	7								
0620	4	5	6	9	6	2	3	7	3	5	8	3	5	8								
0645	4	5	6	8	9	1	3	7	3	5	9	0	4	9								

Notes: _____

	Date	Initials
Data Entry:		
Data Proof:		
Data Scan :		

Yellow-Billed Cuckoo (YBCU) Survey Detection Form

Page 1 of 1

☐ Non-Survey Detection (check box)

☒ Total YBCU Detected

Site Code: <u>VIG Phase 2</u>	Site Name: <u>Ternesca Wash</u>	Survey Period: <u>2</u>	Visit #: <u>2</u>	Date (mm/dd/yy): <u>07/01/13</u>
River Drainage: <u>Ternesca Wash</u>	State: <u>CA</u>	County: <u>Riverside</u>	Observers: <u>Stephen Myers</u>	
Survey Start Time: <u>0420 PST</u>	Wind: <u>0</u>	cloud cover: <u>90</u>	Precip: <u>0</u>	Noise: <u>0</u>
Survey End Time: <u>0830 end</u>	Wind: <u>0</u>	cloud cover: <u>70</u>	Precip: <u>0</u>	Noise: <u>0</u>
GPS #: <u>NAD 27</u>	Start Easting: <u>4 5 7 9 4 5</u>	Start Northing: <u>3 7 3 5 1 4 2</u>	GPS Acc. (m): <u>—</u>	Humidity: <u>Moderate</u>
Zone: <u>11</u>	Stop Easting: <u>4 5 6 8 3 1</u>	Stop Northing: <u>3 7 3 5 9 5 2</u>	GPS Acc. (m): <u>—</u>	Humidity: <u>Moderate</u>

Point Start Time	UTM Coordinates												Waypoint Number	YBCU Det #	Time of Detection	Detection Type	Compass Bearing	Estimated Distance (m)	Est. Dist. Acc.	Vocal Code	Behavior / Breeding	Note #
	Easting						Northing															
0815	4	5	7	8	2	5	3	7	3	5	1	9	6	1								
0750	4	5	7	7	4	7	3	7	3	5	2	5	6	2								
0725	4	5	7	6	8	2	3	7	3	5	3	2	6	3								
0435	4	5	7	3	0	6	3	7	3	5	6	7	9	4								
0500	4	5	7	2	2	4	3	7	3	5	7	1	4	5								
0525	4	5	7	1	2	0	3	7	3	5	7	3	5	6								
0550	4	5	7	0	2	5	3	7	3	5	7	7	0	7								
0615	4	5	6	9	6	2	3	7	3	5	8	3	5	8								
0640	4	5	6	8	9	1	3	7	3	5	9	0	4	9								

Notes: _____

	Date	Initials
Data Entry:		
Data Proof:		
Data Scan :		

Yellow-Billed Cuckoo (YBCU) Survey Detection Form

Page 1 of 1

☐ Non-Survey Detection (check box)

☒ Total YBCU Detected

Site Code: <u>VIG Phase 2</u>	Site Name: <u>Temescal Wash</u>	Survey Period: <u>3</u>	Visit #: <u>3</u>	Date (mm/dd/yy): <u>07/15/13</u>
River Drainage: <u>Temescal Wash</u>	State: <u>CA</u>	County: <u>Riverside</u>	Observers: <u>John Green</u>	
Survey Start Time: <u>0515 PST</u>	Wind: <u>0-1</u>	cloud cover: <u>0</u>	Precip: <u>0</u>	Noise: <u>0</u>
Survey Stop Time: <u>0905 end</u>	Wind: <u>0-1</u>	cloud cover: <u>0</u>	Precip: <u>0</u>	Noise: <u>0</u>
GPS #: <u>NAD 27</u>	Start Easting: <u>4 5 7 9 4 5</u>	Start Northing: <u>3 7 3 5 1 4 2</u>	GPS Acc. (m): <u>—</u>	Humidity: <u>Moderate</u>
Zone: <u>11</u>	Stop Easting: <u>4 5 6 8 3 1</u>	Stop Northing: <u>3 7 3 5 9 5 2</u>	GPS Acc. (m): <u>—</u>	Humidity: <u>Moderate</u>

Point Start Time	UTM Coordinates													Waypoint Number	YBCU Det #	Time of Detection	Detection Type	Compass Bearing	Estimated Distance (m)	Est. Dist. Acc.	Vocal Code	Behavior / Breeding	Note #
	Easting						Northing																
0850	4	5	7	8	2	5	3	7	3	5	1	9	6	1									
0825	4	5	7	7	4	7	3	7	3	5	2	5	6	2									
0800	4	5	7	6	8	2	3	7	3	5	3	2	6	3									
0730	4	5	7	3	0	6	3	7	3	5	6	7	9	4									
0705	4	5	7	2	2	4	3	7	3	5	7	1	4	5									
0640	4	5	7	1	2	0	3	7	3	5	7	3	5	6									
0615	4	5	7	0	2	5	3	7	3	5	7	7	0	7									
0550	4	5	6	9	6	2	3	7	3	5	8	3	5	8									
0525	4	5	6	8	9	1	3	7	3	5	9	0	4	9									

Notes: _____

	Date	Initials
Data Entry:		
Data Proof:		
Data Scan :		

Yellow-Billed Cuckoo (YBCU) Survey Detection Form

Page 1 of 1

☐ Non-Survey Detection (check box)

☒ Total YBCU Detected

Site Code: <u>VIG Phase 2</u>	Site Name: <u>Ternesca Wash</u>	Survey Period: <u>4</u>	Visit #: <u>4</u>	Date (mm/dd/yy): <u>08/06/13</u>
River Drainage: <u>Ternesca Wash</u>	State: <u>CA</u>	County: <u>Riverside</u>	Observers: <u>Stephen Myers</u>	
Survey Start Time: <u>0430 PST</u>	Wind: <u>0-1</u>	cloud cover: <u>0</u>	Precip: <u>0</u>	Noise: <u>0</u>
Survey End Time: <u>0820 end</u>	Wind: <u>0-1</u>	cloud cover: <u>0</u>	Precip: <u>0</u>	Noise: <u>0</u>
GPS #: <u>NAD 27</u>	Start Easting: <u>4 5 7 9 4 5</u>	Start Northing: <u>3 7 3 5 1 4 2</u>	GPS Acc. (m): <u>—</u>	
Zone: <u>11</u>	Stop Easting: <u>4 5 6 8 3 1</u>	Stop Northing: <u>3 7 3 5 9 5 2</u>	GPS Acc. (m): <u>—</u>	

Point Start Time	UTM Coordinates												Waypoint Number	YBCU Det #	Time of Detection	Detection Type	Compass Bearing	Estimated Distance (m)	Est. Dist. Acc.	Vocal Code	Behavior / Breeding	Note #
	Easting						Northing															
0815	4	5	7	8	2	5	3	7	3	5	1	9	6	1								
0750	4	5	7	7	4	7	3	7	3	5	2	5	6	2								
0725	4	5	7	6	8	2	3	7	3	5	3	2	6	3								
0435	4	5	7	3	0	6	3	7	3	5	6	7	9	4								
0500	4	5	7	2	2	4	3	7	3	5	7	1	4	5								
0525	4	5	7	1	2	0	3	7	3	5	7	3	5	6								
0550	4	5	7	0	2	5	3	7	3	5	7	7	0	7								
0615	4	5	6	9	6	2	3	7	3	5	8	3	5	8								
0640	4	5	6	8	9	1	3	7	3	5	9	0	4	9								

Notes: _____

	Date	Initials
Data Entry:		
Data Proof:		
Data Scan :		

APPENDIX E

AVIAN SPECIES LIST

BIRD SPECIES LIST

This list reports only bird species which were observed along the Phase 2 project alignment during 2013 focused riparian bird surveys. Nomenclature and taxonomy for birds observed on site follows the American Ornithologists' Union Checklist (1998) and its supplements.

SYMBOLS AND ABBREVIATIONS:

- sp. Identified only to genus; species unknown (plural = spp.)
- * Non-native species
- ** Sensitive species (State or Federally Listed as Threatened or Endangered, or a CDFG Species of Special Concern / Watch List Species, or a USFWS Bird of Conservation Concern). Birds that are tracked as sensitive only for nesting colonies have not been marked, as no nesting colonies were found.

BIRDS

Swans, Geese, and Ducks

Mallard

New World Quail

California Quail

Cormorants

Double-crested Cormorant

Pelicans

American White Pelican

Bitterns and Herons

Great Blue Heron

Great Egret

Snowy Egret

Black-crowned Night-Heron

American Vultures

Turkey Vulture

Ospreys

**Osprey

Hawks, Kites, Eagles

**Cooper's Hawk

Red-shouldered Hawk

Red-tailed Hawk

Plovers and Lapwings

Killdeer

Stilts and Avocets

Black-necked Stilt

AVES

Anatidae

Anas platyrhynchos

Odontophoridae

Callipepla californica

Phalacrocoracidae

Phalacrocorax auritus

Pelecanidae

Pelecanus erythrorhynchos

Ardeidae

Ardea herodias

Ardea alba

Egretta thula

Nycticorax nycticorax

Cathartidae

Cathartes aura

Pandionidae

Pandion haliaetus

Accipitridae

Accipiter cooperii

Buteo lineatus

Buteo jamaicensis

Charadriidae

Charadrius vociferus

Recurvirostridae

Himantopus mexicanus

American Avocet

Sandpipers, Phalaropes, and Allies

Dowitcher sp.

Gulls, Terns, and Skimmers

California Gull

Caspian Tern

Forster's Tern

Pigeons and Doves

*Rock Pigeon

Band-tailed Pigeon

*Eurasian Collared-Dove

Mourning Dove

Cuckoos, Roadrunners, Allies

Greater Roadrunner

Swifts

White-throated Swift

Hummingbirds

Black-chinned Hummingbird

Anna's Hummingbird

Costa's Hummingbird

Rufous / Allen's Hummingbird

Woodpeckers and Allies

Acorn Woodpecker

Nuttall's Woodpecker

Downy Woodpecker

Northern Flicker

Falcons

American Kestrel

Flycatchers

Western Wood-Pewee

Pacific-slope Flycatcher

Black Phoebe

Say's Phoebe

Ash-throated Flycatcher

Cassin's Kingbird

Western Kingbird

Vireos

**Least Bell's Vireo

Cassin's Vireo

Hutton's Vireo

Warbling Vireo

Recurvirostra americana

Scolopacidae

Limnodromus sp.

Laridae

Larus californicus

Hydroprogne caspia

Sterna forsteri

Columbidae

Columba livia

Patagioenas fasciata

Streptopelia decaocto

Zenaida macroura

Cuculidae

Geococcyx californianus

Apodidae

Aeronautes saxatalis

Trochilidae

Archilochus alexandri

Calypte anna

Calypte costae

Selasphorus sp.

Picidae

Melanerpes formicivorus

Picoides nuttallii

Picoides pubescens

Colaptes auratus

Falconidae

Falco sparverius

Tyrannidae

Contopus sordidulus

Empidonax difficilis

Sayornis nigricans

Sayornis saya

Myiarchus cinerascens

Tyrannus vociferus

Tyrannus verticalis

Vireonidae

Vireo bellii pusillus

Vireo cassinii

Vireo huttoni

Vireo gilvus

Jays, Magpies and Crows

Western Scrub-Jay
American Crow
Common Raven

Swallows

Violet-green Swallow
Tree Swallow
Northern Rough-winged Swallow
Cliff Swallow
Barn Swallow

Chickadees and Titmice

**Oak Titmouse

Long-tailed Tits and Bushtits

Bushtit

Wrens

Rock Wren
House Wren
Marsh Wren
Bewick's Wren

Gnatcatchers and Gnatwrens

Blue-gray Gnatcatcher

Sylviid Warblers

Wrentit

Thrushes

Western Bluebird
Swainson's Thrush
Hermit Thrush

Mockingbirds, Thrashers, and Allies

Northern Mockingbird
California Thrasher

Starlings and Allies

*European Starling

Silky-flycatchers

Phainopepla

Wood-Warblers

Orange-crowned Warbler
Common Yellowthroat
**Yellow Warbler
Yellow-rumped Warbler (two subspecies)
Wilson's Warbler

Corvidae

Aphelocoma californica
Corvus brachyrhynchos
Corvus corax

Hirundinidae

Tachycineta thalassina
Tachycineta bicolor
Stelgidopteryx serripennis
Petrochelidon pyrrhonota
Hirundo rustica

Paridae

Baeolophus inornatus

Aegithalidae

Psaltirparus minimus

Troglodytidae

Salpinctes obsoletus
Troglodytes aedon
Cistothorus palustris
Thryomanes bewickii

Polioptilidae

Polioptila caerulea

Sylviidae

Chamaea fasciata

Turdidae

Sialia mexicana
Catharus ustulatus
Catharus guttatus

Mimidae

Mimus polyglottos
Toxostoma redivivum

Sturnidae

Sturnus vulgaris

Ptilonotidae

Phainopepla nitens

Parulidae

Oreothlypis celata
Geothlypis trichas
Setophaga petechia
Setophaga coronata
Cardellina pusilla

Emberizines

Spotted Towhee
**Southern California Rufous-crowned Sparrow
California Towhee
Lark Sparrow
Song Sparrow
Lincoln's Sparrow
White-crowned Sparrow

Cardinals and Allies

Western Tanager
Black-headed Grosbeak
Blue Grosbeak
Lazuli Bunting

Blackbirds and Allies

Red-winged Blackbird
Western Meadowlark
Brewer's Blackbird
Great-tailed Grackle
Brown-headed Cowbird
Hooded Oriole
Bullock's Oriole

Finches and Allies

House Finch
Lesser Goldfinch
**Lawrence's Goldfinch
American Goldfinch

Old World Sparrows

*House Sparrow

Emberizidae

Pipilo maculatus
Aimophila ruficeps canescens
Melospiza crissalis
Chondestes grammacus
Melospiza melodia
Melospiza lincolnii
Zonotrichia leucophrys

Cardinalidae

Piranga ludoviciana
Pheucticus melanocephalus
Passerina caerulea
Passerina amoena

Icteridae

Agelaius phoeniceus
Sturnella neglecta
Euphagus cyanocephalus
Quiscalus mexicanus
Molothrus ater
Icterus cucullatus
Icterus bullockii

Fringillidae

Haemorhous mexicanus
Spinus psaltria
Spinus lawrencei
Spinus tristis

Passeridae

Passer domesticus

APPENDIX F

CERTIFICATION

**CERTIFICATION STATEMENT FOR THE
UNITED STATES FISH AND WILDLIFE SERVICE**

We certify that the information in the survey report and attached exhibits fully and accurately represents our work.

Signed: _____

Date: _____

Signed: _____

Date: _____

Signed: _____

Date: _____