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



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> August 2012 AMEC Project No. 1255400498



EXECUTIVE SUMMARY

At the request of Southern California Edison (SCE), AMEC Environment & 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*). Surveys were conducted at suitable habitat patches along the Valley-Ivyglen Transmission Line Project, Phase I (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 or Southwestern Willow Flycatchers were detected.



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SWF SURVEY FORMS

CERTIFICATION



ACRONYMS AND ABBREVIATIONS

MEC Environment & Infrastructure, Inc.
California Department of Fish and Game
egrees Fahrenheit
ilovolt
east Bell's Vireo
niles per hour
Multiple Species Habitat Conservation Plan
acific Standard Time
alley-Ivyglen Transmission Line Project, Phase I
ght-of-way
outhern California Edison
roject ROW and 500-foot buffer from centerline of ROW
outhwestern Willow Flycatcher
Inited States Fish and Wildlife Service
Inited States Geological Survey



1.0 INTRODUCTION

At the request of Southern California Edison (SCE), AMEC Environment & 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*). Surveys were conducted at suitable habitat patches along the Valley-Ivyglen Transmission Line Project, Phase I (see Figures 1-3). These patches are locations where these species have not been detected in previous survey years (AMEC 2007, 2009, 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 I transmission line route (project) is located entirely in western Riverside County, California. It traverses portions of unincorporated county and the cities of Menifee, Perris, and Lake Elsinore (Appendix A-Figure 1). The route traverses portions of the Lake Elsinore and Romoland United States Geological Survey (USGS) 7.5-minute series topographic quadrangles (Appendix A-Figure 3).

This report concerns focused surveys conducted within the Phase I portion of the project area; Phase II 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.

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 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).



2.0 METHODS

2.1 Least Bell's Vireo and Southwestern Willow Flycatcher

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

- Goldenrod Avenue: approximate UTM of survey area: Zone 11, 478950E, 3732690N (NAD27). This point occurs on lands mapped on the USGS 7.5 minute Romoland, Calif quadrangle. See Appendix A-Figures 1, 2A, and 3A.
- Alabaster Loop: approximate UTM of survey area: Zone 11, 478330E, 3732650N (NAD27). This point occurs on lands mapped on the USGS 7.5 minute Romoland, Calif quadrangle. See Appendix A, Figures 1, 2B, and 3A.
- 3. <u>Peach Street:</u> approximate UTM at north end of survey area: Zone 11, 472580E, 3730997N (NAD27); approximate UTM at south end of survey area: Zone 11, 472612E, 3730803N (NAD27). These points occur on lands mapped on the USGS 7.5 minute *Lake Elsinore*, *Calif.* quadrangle. See Appendix A, Figures 1, 2C, and 3B.
- 4. Wasson Canyon: approximate UTM at north end of survey area: Zone 11, 472339E, 3730799N (NAD27); approximate UTM at south end of survey area: Zone 11, 472425E, 3730494N (NAD27). These points occur on lands mapped on the USGS 7.5 minute Lake Elsinore, Calif. quadrangle. Report cover photo is of this survey area, taken from the south end looking north. Also see Appendix A, Figures 1, 2D, and 3B.
- 5. Rosetta Canyon: approximate UTM at west end of survey area: Zone 11, 469844E, 3729121N (NAD27); approximate UTM at east end of survey area: Zone 11, 469995E, 3729143N (NAD27). These points occur on lands mapped on the USGS 7.5 minute *Lake Elsinore, Calif.* quadrangle. See Appendix A, Figures 1, 2E, and 3B.

In accordance with the currently accepted survey protocol for the Least Bell's Vireo (USFWS 2001), each site was surveyed eight times by 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.

Surveys consisted of slowly moving through the habitat while listening for the songs and calls of the two target species. During the SWF surveys, recordings of their vocalizations were broadcast as required by protocol. All bird species detected during the surveys were recorded in field notes (Appendix B). Field forms are presented in Appendix C.

Due to the small size of the riparian patches, all survey areas were surveyed in a single morning on each visit. 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 in Appendix A on Figures 2A through 2E (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)
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

Notes:

 $[\]dagger$ SWF and LBV surveys conducted concurrently. Other surveys were for LBV 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.), Mulefat (Baccharis salicifolia), and Fremont Cottonwoods (Populus fremontii). The Goldenrod survey area was part of a poorly defined drainage in the past (judging from topographic maps and old aerial photos), but probably did not support riparian vegetation. Runoff from new housing developments has created and sustained this patch, and surface water was present throughout the survey season. The Alabaster survey area is on a former mapped blueline intermittent stream (see Appendix A, Figure 3A), but again likely did not support riparian vegetation in the past. The drainage was highly modified by development, and the riparian patch is sustained by runoff. Surface water was present throughout the survey season The Peach Street survey area was also part of a poorly defined drainage in the past which probably did not support riparian vegetation. Runoff from Highway 74 and rural residential in the area now sustains the riparian vegetation here, and surface water was present throughout the survey season. The Wasson Canyon survey area is in a relatively large and well defined drainage, but is mapped as an intermittent stream. It certainly gains some water from Highway 74 and rural residences, but rarely contains surface water. It may have historically sustained riparian vegetation. Surface water was present only in patches early in the survey season. Finally, the Rosetta Canyon survey area was part of yet another poorly defined drainage in the past which probably did not support riparian vegetation. Runoff from Highway 74 and rural residences and businesses now sustain riparian vegetation on the north side of the highway, and a new patch has developed on the south side which was once scraped bare several years ago. Surface water was present throughout the survey season.

3.2 Survey Results

Seventy-two bird species were detected during the 2012 Phase I 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 (*Psaltriparus 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 Southwestern Willow Flycatcher

No Southwestern Willow Flycatchers or any other subspecies of Willow Flycatcher were detected at any of the survey areas.

3.2.2 Least Bell's Vireo

No Least Bell's Vireos were detected at any of the survey areas.



4.0 LITERATURE CITED

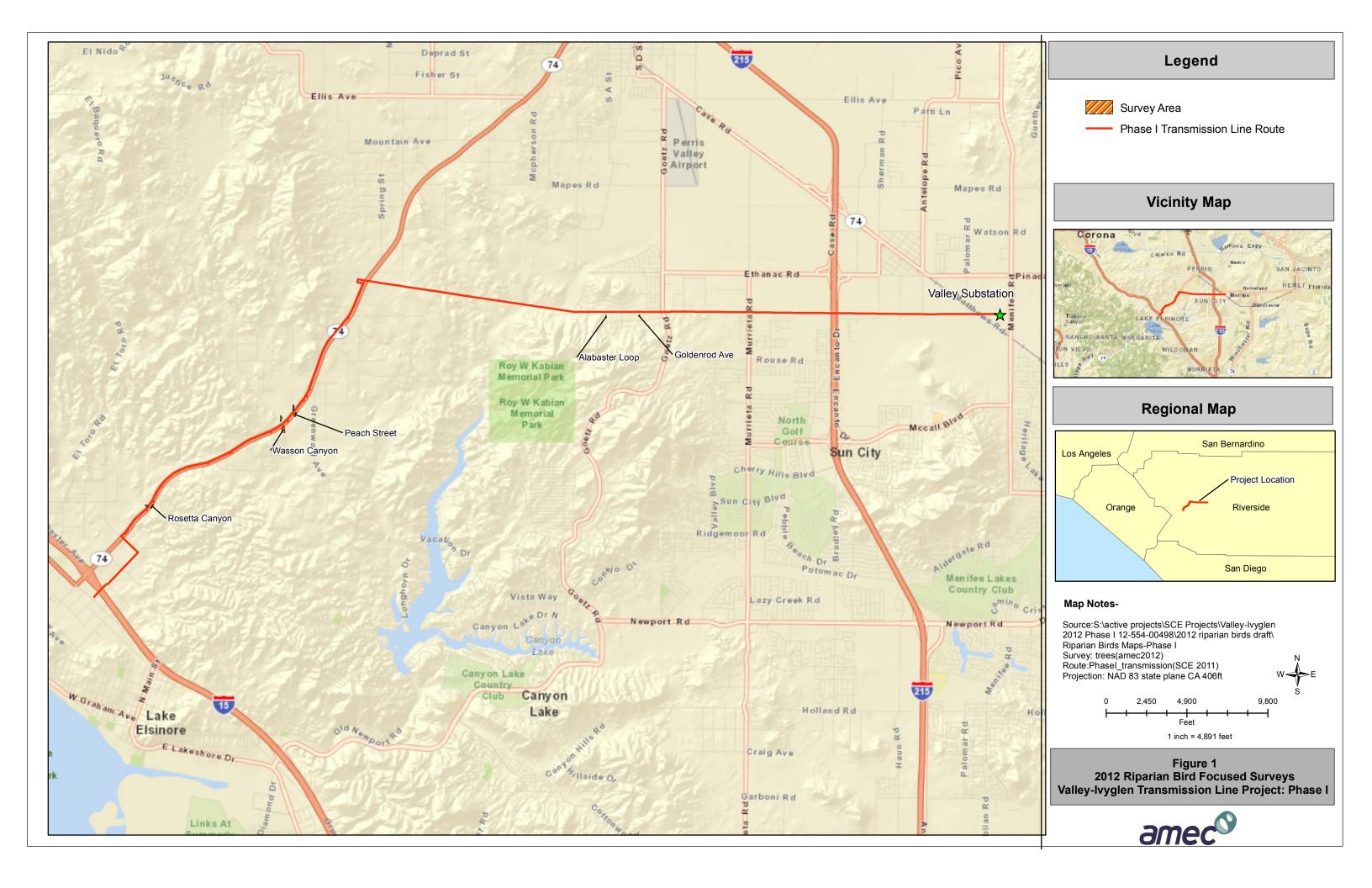
- AMEC. 2011. Valley-Ivyglen Transmission Line Project, 2011 Focused Surveys for Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo. Unpublished report prepared for SCE.
- AMEC. 2009. 2009 Focused Surveys for the Least Bell's Vireo and Southwestern Willow Flycatcher, Valley-Ivyglen Subtransmission Line Project. Unpublished report prepared for SCE.
- AMEC. 2007. Focused Surveys for the Least Bell's Vireo, Southwestern Willow Flycatcher, and Western Yellow-billed Cuckoo for the Valley-lvyglen Transmission Line Project. Unpublished report prepared for SCE.
- Franzreb, K.E. 1987. Endangered status and strategies for conservation of the Least Bell's Vireo (*Vireo bellii pusillus*) in California. W. Birds 18:43-49.
- Garrett, K. and J. Dunn. 1981. Birds of southern California: Status and distribution. Los Angeles Audubon Soc., Los Angeles, CA.
- Goldwasser, S. 1978. Distribution, reproductive success, and impact of nest parasitism by Brown-headed Cowbirds on Least Bell's Vireos. Unpublished report prepared for the Resources Agency, California Department of Fish and Game, Sacramento, CA.
- Grinnell, J. and A.H. Miller. 1944. The Distribution of the Birds of California. Pac. Coast Avif. 27.
- Marshall, R.M. 2000. Population status on breeding grounds. Pp. 3-11 *in* Status, ecology, and conservation of the Southwestern Willow Flycatcher (Finch, D.M. and S.H. Stoleson, eds.). Gen. Tech. Rpt. RMRS-GTR-60, U.S. Dept. of Agriculture, Forest Service, Rocky Mountain Research Station, Ogden, UT.
- Riverside County Integrated Project. 2003. MSHCP Final Documents. Online at: http://www.rcip.org/conservation.htm
- Sogge, M.K., D. Ahlers, and S.J. Sferra. 2010. A natural history summary and survey protocol for the Southwestern Willow Flycatcher. U.S. Geological Survey Techniques and Methods 2A-10, 38 pgs.
- Sogge, M.K., R.M. Marshall, S.J. Sferra, and T.J. Tibbitts. 1997. A Southwestern Willow Flycatcher natural history summary and survey protocol. Technical report NPS/NAUCPRS/NRTR-97/12, National Park Service, Denver.
- USFWS. 2011. Endangered and Threatened Wildlife and Plants; Designation of Revised Critical Habitat for Southwestern Willow Flycatcher. Proposed Rule. *Federal Register*. Vol. 76, Pgs. 50542-50629.
- USFWS. 2005. Endangered and Threatened Wildlife and Plants; Designation of Critical Habitat for the Southwestern Willow Flycatcher (*Empidonax traillii extimus*). Final Rule. *Federal Register*. Vol. 70, Pgs. 60885-61009.
- United States Fish and Wildlife Service. 2001. Least Bell's Vireo survey guidelines. Ecological Services, Carlsbad Fish and Wildlife Office, Carlsbad, CA.

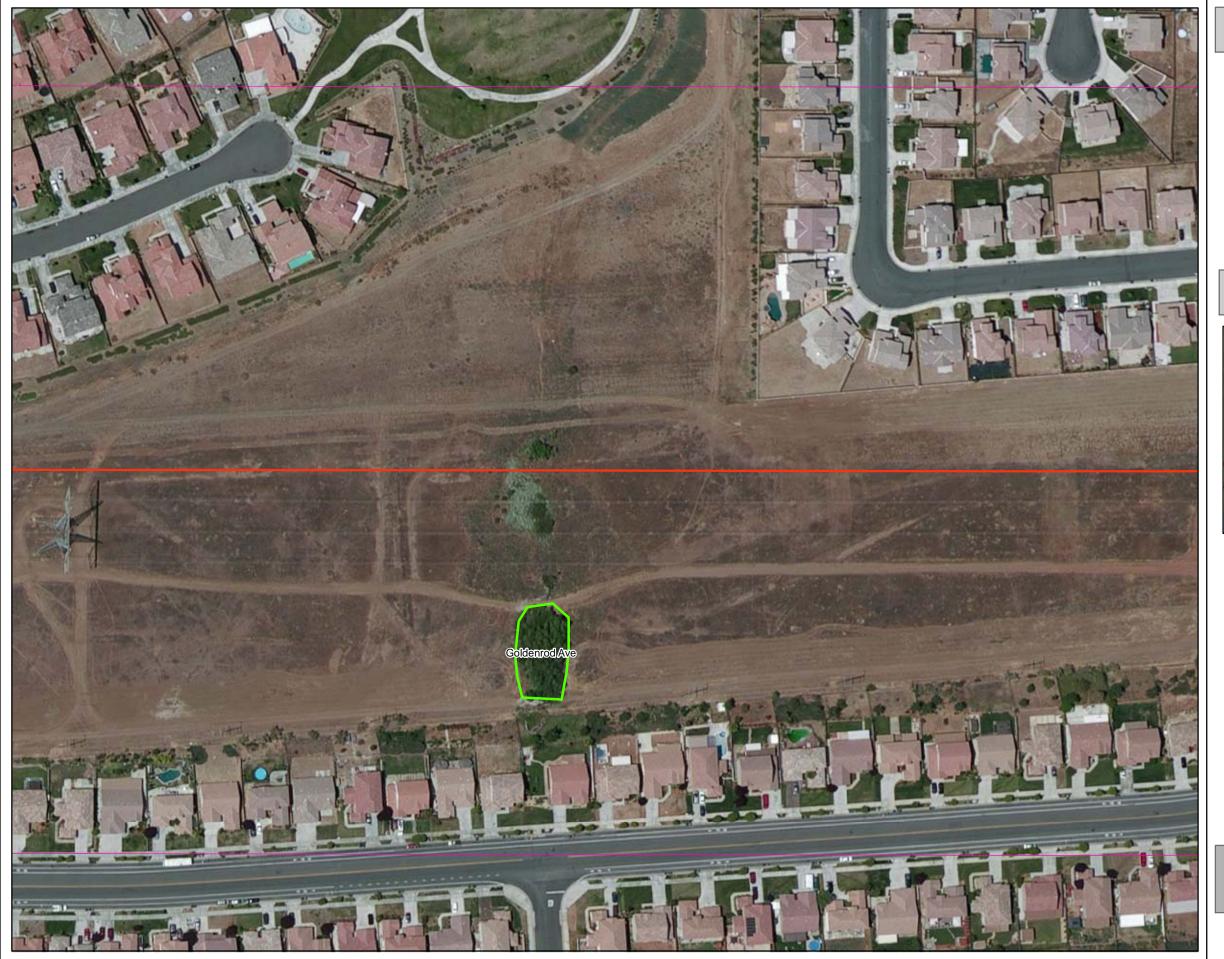


- USFWS. 1997. Final Determination of Critical Habitat for the Southwestern Willow Flycatcher. *Federal Register.* Vol. 62, Pgs. 39129-39147.
- USFWS. 1995. Endangered and Threatened Wildlife and Plants; Final Rule Determining Endangered Status for the Southwestern Willow Flycatcher. *Federal Register*. Vol. 60, No. 38.
- USFWS. 1994. Endangered and Threatened Wildlife and Plants; Designation of Critical Habitat for the Least Bell's Vireo. *Federal Register*. Vol. 59, No. 22.
- USFWS. 1986. Endangered and Threatened Wildlife and Plants; Determination of Endangered Status for the Least Bell's Vireo, Final Rule. *Federal Register*. Vol. 51.
- United States Fish and Wildlife Service. 1994. Endangered and Threatened Wildlife and Plants; Designation of Critical Habitat for the Least Bell's Vireo; Final Rule. Federal Register 59:4845-4867.
- Unitt, P. 1987. Empidonax traillii extimus: An endangered subspecies. W. Birds 18:137-162.



APPENDIX A FIGURES





Survey Area

Phase I Transmission Line Route

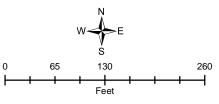
2012 Study Area

Locator Map



Map Notes-

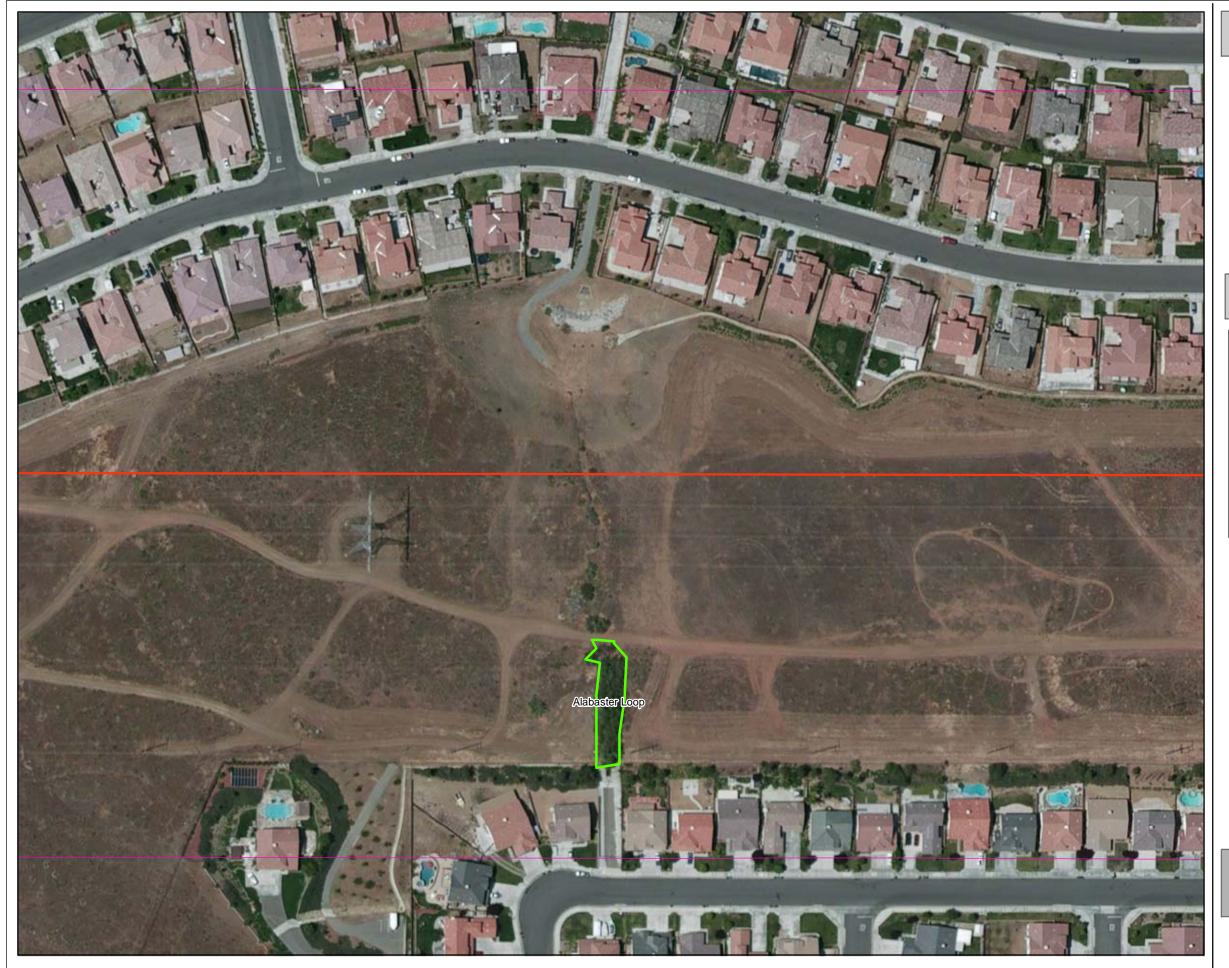
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Valley-lvyglen 2012 Phase I 12-554-00498\
2012 riparian birds draft\Riparian Birds Maps-Phase I
Survey: trees(amec2012)
Route:PhaseI_transmission(SCE 2011)
Projection: NAD 83 state plane CA 406ft



1 inch = 125 feet

Figure 2 A
2012 Riparian Bird Focused Surveys
Valley-Ivyglen Transmission Line Project: Phase I





Survey Area

Phase I Transmission Line Route

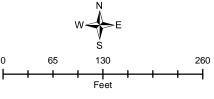
2012 Study Area

Locator Map



Map Notes-

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Valley-lvyglen 2012 Phase I 12-554-00498\
2012 riparian birds draft\Riparian Birds Maps-Phase I
Survey: trees(amec2012)
Route:PhaseI_transmission(SCE 2011)
Projection: NAD 83 state plane CA 406ft



1 inch = 125 feet

Figure 2 B 2012 Riparian Bird Focused Surveys Valley-Ivyglen Transmission Line Project: Phase I





Survey Area

Phase I Transmission Line Route

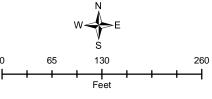
2012 Study Area

Locator Map



Map Notes-

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Valley-Ivyglen 2012 Phase I 12-554-00498\
2012 riparian birds draft\Riparian Birds Maps-Phase I
Survey: trees(amec2012)
Route:PhaseI_transmission(SCE 2011)
Projection: NAD 83 state plane CA 406ft



1 inch = 125 feet

Figure 2 C 2012 Riparian Bird Focused Surveys Valley-Ivyglen Transmission Line Project: Phase I





Survey Area

Phase I Transmission Line Route

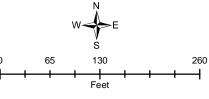
2012 Study Area

Locator Map



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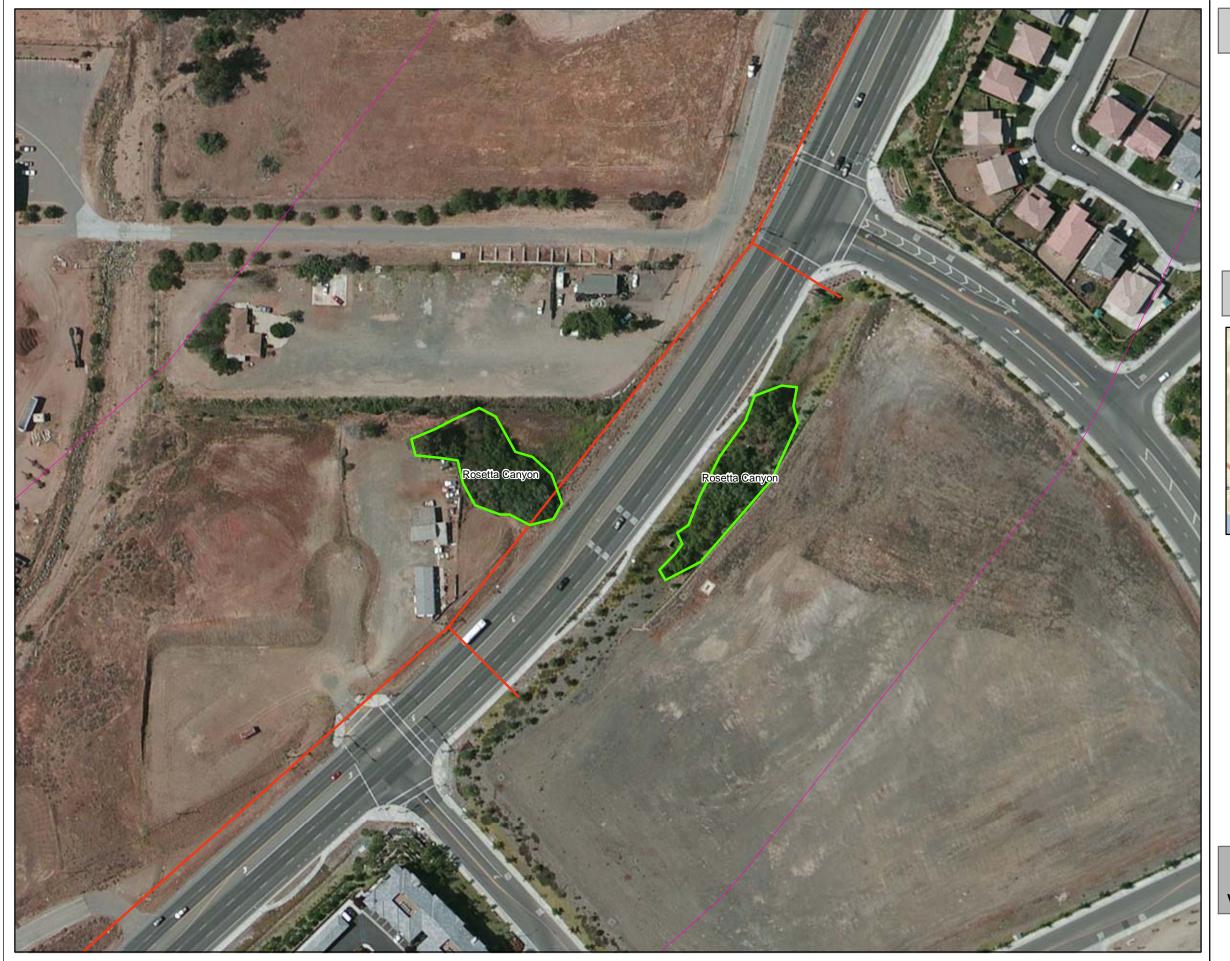
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Route:PhaseI_transmission(SCE 2011)
Projection: NAD 83 state plane CA 406ft



1 inch = 125 feet

Figure 2 D
2012 Riparian Bird Focused Surveys
Valley-Ivyglen Transmission Line Project: Phase I





Survey Area

Phase I Transmission Line Route

2012 Study Area

Locator Map



Map Notes-

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Valley-Ivyglen 2012 Phase I 12-554-00498\
2012 riparian birds draft\Riparian Birds Maps-Phase I
Survey: trees(amec2012)
Route:PhaseI_transmission(SCE 2011)
Projection: NAD 83 state plane CA 406ft

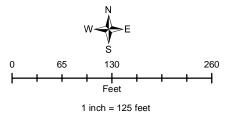
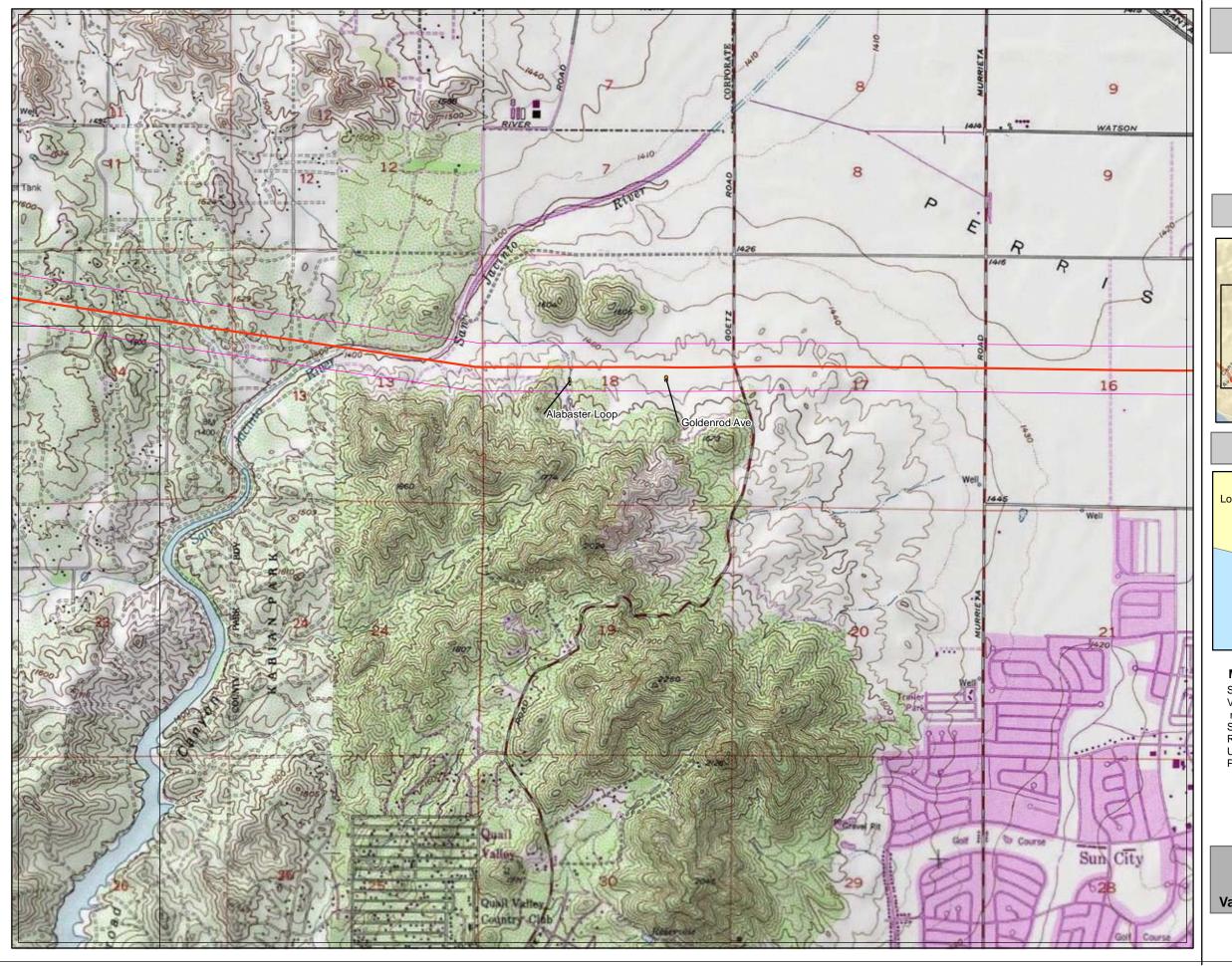


Figure 2 E 2012 Riparian Bird Focused Surveys Valley-Ivyglen Transmission Line Project: Phase I





Survey Area

Phase I Transmission Line Route

2012 Study Area

Locator Map



Regional Map



Map Notes-

Source:S:\active projects\SCE Projects\
Valley-lvyglen 2012 Phase I 12-554-00498\2012
riparian birds draft\Riparian Birds Maps-Phase I
Survey: trees(amec2012)
Route:PhaseI_transmission(SCE 2011)
USGS: Topo 7.5' Romoland & Lake Elsinore quad
Projection: NAD 83 state plane CA 406ft

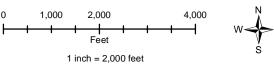
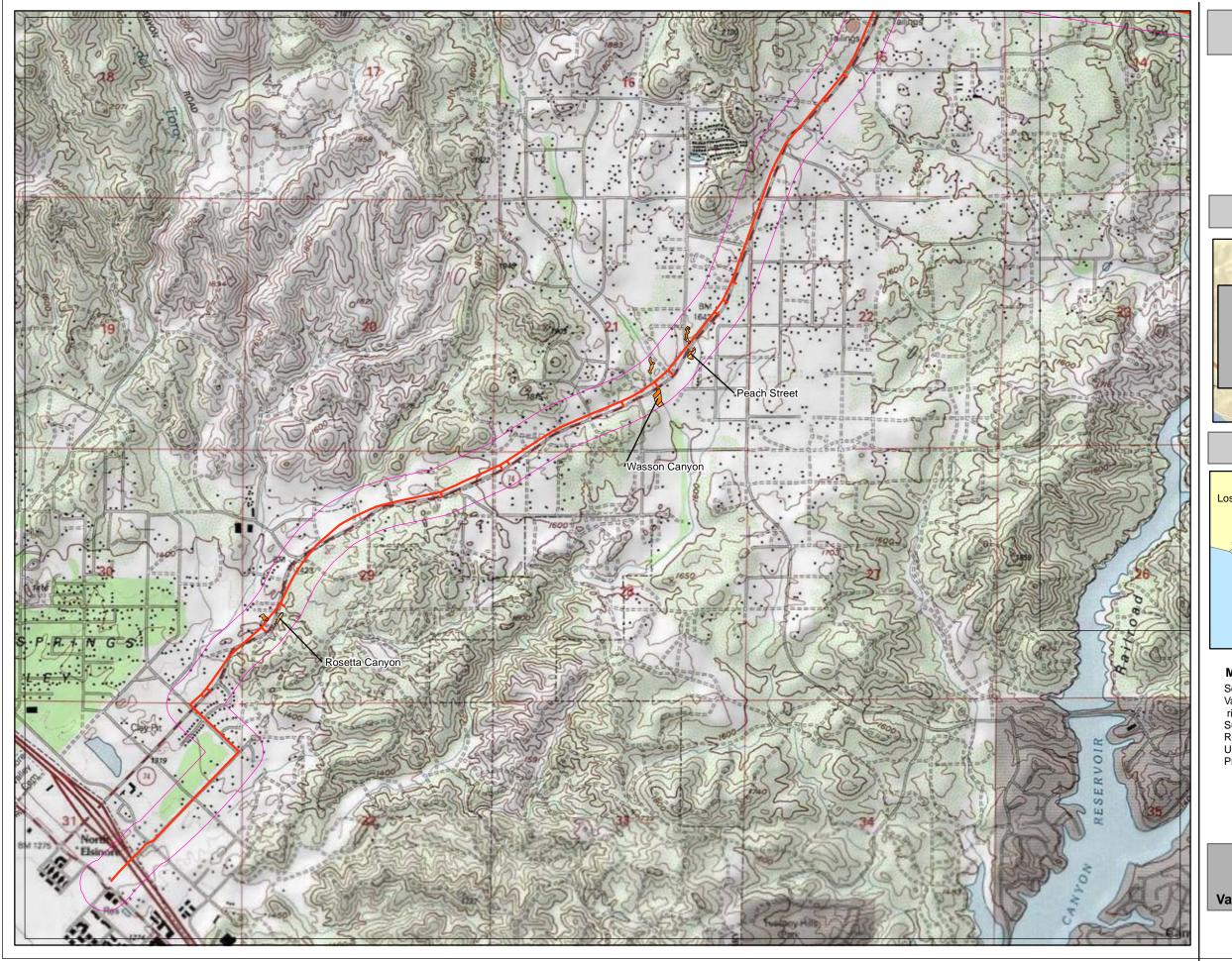


Figure 3A
Survey Areas
2012 Riparian Bird Focused Surveys
Valley-Ivyglen Transmission Line Project: Phase I





Survey Area

Phase I Transmission Line Route

2012 Study Area

Locator Map



Regional Map



Map Notes-

Source:S:\active projects\SCE Projects\
Valley-lvyglen 2012 Phase I 12-554-00498\2012
riparian birds draft\Riparian Birds Maps-Phase I
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Route:PhaseI_transmission(SCE 2011)
USGS: Topo 7.5' Romoland & Lake Elsinore quad
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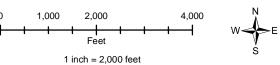


Figure 3B
Survey Areas
2012 Riparian Bird Focused Surveys
Valley-lvyglen Transmission Line Project: Phase I





APPENDIX B BIRD SPECIES LIST

2012 Riparian Birds Focused Surveys Valley-Ivyglen Subtransmission Line Project, Phase I AMEC Project No. 1255400498 August 2012



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.

site follows the American Ornithologists Onion Checklist (1990) 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 AVES New World Quail Odontophoridae California Quail Callipepla californica Ardeidae **Bitterns and Herons** Great Blue Heron Ardea herodias **Great Egret** Ardea alba **American Vultures** Cathartidae Turkey Vulture Cathartes aura Hawks, Kites, Eagles **Accipitridae** **White-tailed Kite Elanus leucurus **Cooper's Hawk Accipiter cooperii Red-shouldered Hawk Buteo lineatus Red-tailed Hawk Buteo jamaicensis Falconidae Falcons American Kestrel Falco sparverius **Plovers and Lapwings** Charadriidae Killdeer Charadrius vociferus Gulls, Terns, and Skimmers Laridae Ring-billed or California Gull Larus sp. **Pigeons and Doves** Columbidae *Rock Pigeon Columba livia *Eurasian Collared-Dove Streptopelia decaocto Mourning Dove Zenaida macroura Cuckoos, Roadrunners, Allies Cuculidae Greater Roadrunner Geococcyx californianus **Swifts Apodidae** White-throated Swift Aeronautes saxatalis

2012 Riparian Birds Focused Surveys Valley-Ivyglen Subtransmission Line Project, Phase I AMEC Project No. 1255400498 August 2012



BIRDS	AVES
Hummingbirds	Trochilidae
Black-chinned Hummingbird	Archilochus alexandri
Anna's Hummingbird	Calypte anna
Woodpeckers and Allies	Picidae
Nuttall's Woodpecker	Picoides nuttallii
Downy Woodpecker	Picoides pubescens
Northern Flicker	Colaptes auratus
Flycatchers	Tyrannidae
Black Phoebe	Sayornis nigricans
Say's Phoebe	Sayornis saya
Ash-throated Flycatcher	Myiarchus cinerascens
Cassin's Kingbird	Tyrannus vociferus
Western Kingbird	Tyrannus verticalis
Vireos	Vireonidae
Warbling Vireo	Vireo gilvus
Jays, Magpies and Crows	Corvidae
Western Scrub-Jay	Aphelocoma californica
American Crow	Corvus brachyrhynchos
Common Raven	Corvus corax
Larks	Alaudidae
**Horned Lark	Eremophila alpestris
Swallows	Hirundinidae
Tree Swallow	Tachycineta bicolor
Northern Rough-winged Swallow	Stelgidopteryx serripennis
Cliff Swallow	Petrochelidon pyrrhonota
Barn Swallow	Hirundo rustica
Long-tailed Tits and Bushtits	Aegithalidae
Bushtit	Psaltriparus minimus
Wrens	Troglodytidae
Rock Wren	Salpinctes obsoletus
House Wren	Troglodytes aedon
Bewick's Wren	Thryomanes bewickii
Sylviid Warblers	Sylviidae
Wrentit	Chamaea fasciata
Mockingbirds, Thrashers, and Allies	Mimidae
Northern Mockingbird	Mimus polyglottos
California Thrasher	Toxostoma redivivum
Starlings and Allies	Sturnidae
*European Starling	Sturnus vulgaris
Wagtails and Pipits	Motacillidae

2012 Riparian Birds Focused Surveys Valley-Ivyglen Subtransmission Line Project, Phase I AMEC Project No. 1255400498 August 2012



BIRDS	AVES
American Pipit	Anthus rubescens
Silky-flycatchers	Ptilogonatidae
Phainopepla	Phainopepla nitens
Wood-Warblers	Parulidae
Orange-crowned Warbler	Oreothlypis celata
Common Yellowthroat	Geothlypis trichas
**Yellow Warbler	Setophaga petechia
Yellow-rumped Warbler	Setophaga coronata
Wilson's Warbler	Cardellina pusilla
Emberizines	Emberizidae
Spotted Towhee	Pipilo maculatus
**Southern California Rufous-crowned Sparrow	Aimophila ruficeps canescens
California Towhee	Melozone crissalis
Lark Sparrow	Chondestes grammacus
Savannah Sparrow	Passerculus sandwichensis
Song Sparrow	Melospiza melodia
Lincoln's Sparrow	Melospiza lincolnii
White-crowned Sparrow	Zonotrichia leucophrys
Cardinals and Allies	Cardinalidae
Western Tanager	Piranga ludoviciana
Black-headed Grosbeak	Pheucticus melanocephalus
Blue Grosbeak	Guiraca caerulea
Blackbirds and Allies	Icteridae
Red-winged Blackbird	Agelaius phoeniceus
Western Meadowlark	Sturnella neglecta
Brewer's Blackbird	Euphagus cyanocephalus
Great-tailed Grackle	Quiscalus mexicanus
Brown-headed Cowbird	Molothrus ater
Hooded Oriole	Icterus cucullatus
Bullock's Oriole	Icterus bullockii
Finches and Allies	Fringillidae
House Finch	Haemorhous mexicanus
Lesser Goldfinch	Spinus psaltria
American Goldfinch	Spinus tristis
Old World Sparrows	Passeridae
*House Sparrow	Passer domesticus



APPENDIX C SWF 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.

VCSUCSI al IZOLI	$\frac{\alpha i}{2}$ for the .	most up	-io-uaic	VCISIOII							
			-	•	•	d Detection Form (revised	-	,			
Creek, Rive	r, Wetland, o	or Lake N	Iame 🕡	nnan	1001	Ave. State A Count Elevation Lift			·de (mete Yes≻ No		
Survey Coo	rdinates: Sta Sto ey coordinate	art: E 4 op: E 4 es change ** F	7894 7894 d betwee Fill in ac	5 1 n visits, er	N 3732 N 3732 Iter coordinated I site inform	2706 UTM 2645 UTM es for each survey in communation on back of this	Datum Zone _ nents se page	NADA 11 ction (27(See instruc	tions)	
Survey # Observer(s) (Full Name)	2012 Date (m/d/y) Survey time + see camments	Number of Adult WIFLs	Estimate d Number of Pairs	Estimated Number of Territories		Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, Diorhabda spp.]). If Diorhabda found, contact USFWS and State WIFL coordinator	(this is individu each su	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	Date 5 Mery Start 060 5 Stop 0850 Total hrs 75	4	ф	4	N		# Birds	Sex	UTM E	UTM N	
Survey # 2 Observer(s) Chet McGaugh TE836517-6	Date Jun Start 0510 Stop 0950 4h Total hrs 40 m	0	A	0	\wedge	ABrown-headed Cowbird (see Comments)	# Birds	Sex	UTM E	UTM N	
Survey #3 Observer(s) McGaugh	Date 14 Jun Start 0525 Stop 1950 Total hrs 25 n	0	0	0	N	A tc	# Birds	Sex	UTM E	UTM N	
Survey # 4 Observer(s) GTEEN	Date 28 Jun Start 0 545 Stop 0810 Total hrs 35m	0	0	0	N	pair of Brown-headed combinds	# Birds	Sex	UTM E	UTM N	
Survey # 5 Observer(s) Stephen Myers TE80+203-9	Date 9 Jul Start 0445 Stop 0945 Total hrs 5	0	0	0	\wedge		# Birds	Sex	UTM E	UTM N	
Overall Site Sur Totals do not equal each column. Include resident adults. Do migrants, nestlings,	the sum of le only not include	Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycato				No <u>×</u>	
fledglings. Be careful not to double count individuals. 19 hours Total Survey Hrs 25 min.		000		0	0	If yes, report color combination(s) in the comments section on back of form and report to USFWS.					

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.

	Individual Ja				Ph	one # <u>951-369-8060</u> mail <u>John, F. green @ arnec.co</u> tte Réport Completed <u>27 July 2012 (draf</u>
Affiliation	1 AMEC Walleys Ivvai	len chase T.	Goldenrod YesNo	Aue.	E-1	mail john, t. green @ graec.com
Was this s	site surveyed in a	previous year?	YesNo	Unknown		
Did you v	erify that this sit	e name is consist	tent with that used	d in previous ye	ears? Yes	No Not Applicable
If site nan	ne is different, w	hat name(s) was	used in the past?	Unganea Ri	parlan f	Patch / No If no, summarize below.
			ey the same general general general general general general same general gener			No If no, summarize below. No If no, summarize below.
	surveyed in		ig cacii visit to tii	is site tills year	: 165_	V No If no, summarize below.
Managem	ent Authority for	r Survey Area:	Federal M	/Junicipal/Coun	ty St	ate Tribal Private
Name of M	Management Ent	ity or Owner (e.g	g., Tonto National	l Forest)		ate Tribal Private
Length of	area surveyed: <u>(</u>	0.04 (kn	1)			
Vegetation	n Characteristics	: Check (only on	e) category that b	est describes th	ne predomin	nant tree/shrub foliar layer at this site:
1	Native broadleaf	plants (entirely o	or almost entirely	, > 90% native)		
	Mixed native and	l exotic plants (m	nostly native, 50 -	- 90% native)		
N	Mixed native and	l exotic plants (m	ostly exotic, 50 -	90% exotic)		
H	Exotic/introduced	d plants (entirely	or almost entirely	y, > 90% exotic	:) .	
Identify th	ie 2-3 predomina	int tree/shrub sne	cies in order of d	lominance Use	scientific r	names. Salix spp
	- Prodomina			ommunee. One	, selentine i	14 Spp
Average h	eight of canopy	(Do not include a	a range):	5		(meters)
Comments features.	hotos of the inters (such as start an Attach additional of the such as a suc	rior of the patch, and end coordinate I sheets if necess or clude Had we stay	exterior of the pat es of survey area	if changed amo	site. Descri	oute, location of any detected WIFLs or their be any unique habitat features in Comments. I supplemental visits to sites, unique habitat neluding visits to other savings time.
,						
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)
	· ·					
	litional chapte if					

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.

WC20 C2/ at 12 Off		most u <u>p</u>	-w-date	2 46181011	•					
			-			d Detection Form (revised	-	-		
Site Name USGS Quad	lalley-I	vyglei	1, Phas Romol	eI, Al	abaster	Loop State CA County Elevation 45	Riv	C/51	ide (mete	ers)
Creek, Rive Is copy	r, Wetland, or of USGS m	or Lake N ap marke	lame <u> </u>	urvey area	1 A and WIFL s	ightings attached (as requi	red)?		Yes <u>×</u> No	
Survey Coo	rdinates: Sta	art: E 42 op: E 44	334 78337	7-	N 373; N 373	2688 UTM 2640 UTM es for each survey in comm	Datum <u>/</u> Zone	NAD. 11	27(See instruc	tions)
If surve	ey coordinate	s change	d betwee <i>fill in ac</i>	n visits, er <i>dditiona</i>	ter coordinate site inform	es for each survey in comm nation on back of this	ents se <i>page</i>	ction (on back of this	page.
Survey # Observer(s) (Full Name)	2012 Date (m/d/y) Survey time * 500 20 mments	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, Diorhabda spp.]). If each survey). Include additional s				ocumenting irds found on
Survey # 1 Observer(s)	Date 15 May				÷		# Birds	Sex	UTM E	UTM N
Green	Start OGOS Stop OSSO Total hrs 25	4	4	0	N					
Survey # 2 Observer(s) Chet McGaugh	Date 4 Jun Start 05/0	a	A	0	^/	A Brown- headed Cawbird	# Birds	Sex	UTM E	UTM N
TE836517-6	Stop 0 750 44 Total hrs <u>40 m</u>	70			/ V	(see comments)				
Survey # 3 Observer(s)	Date 14 Jun					A	# Birds	Sex	UTM E	UTM N
McGaugh	Start 0525 Stop 0950 44 Total hrs 25 m	0	0	0	\bigvee	n				
Survey # 4	Date 28 Jun						# Birds	Sex	UTM E	UTM N
Observer(s) Green	Start 0545 Stop 0810	A	0	0	\wedge					
Survey # 5	Total hrs 35m						4 Dinda	C	UTM E	UTM N
Survey # 5 Observer(s) Stephen Myers	Date 9 Jul Start 0445 Stop 0945	a	0	0	\mathbb{N}		# Birds	Sex	OTME	OTMA
TE804203-9	Total hrs 5									
Overall Site Sur Totals do not equal each column. Includeresident adults. Do migrants, nestlings, fledglings.	nmary the sum of de only not include	Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatc			-	_ No <u>×</u> _
Be careful not to do	9 hrs	4	8	0	0	If yes, report color combin section on back of form an				

Reporting Individual John F. Green

US Fish and Wildlife Service Permit # TE054011-5

State Wildlife Agency Permit # SC-001951 a Hackment 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.

	; Individual <u>J 🛭</u>	411 1. C	reen			one # 951 - 3	
Affiliation	AMEC						
Site Name	: <u>Valley-Ivyg</u>	len, Phase I,	Alabaster	LOOP	Da	te Réport Comp	f. green @ amec.cor oleted 27 July 2012 (droft)
Was this s	site surveyed in a	a previous year?	Yes No	Unknown	_	_	·
Did you v	erify that this sit	te name is consis	tent with that use	d in previous ye	ears? Yes	No T	Not Applicable
			used in the past? ey the same gene				
			ey the same geneing each visit to the				
> lact	surveyed	2001 2000	ig cach visit to th	is site this year	i ies_	<u> </u>	If no, summarize below.
Manageme	ent Authority for	r Survey Area:	FederalN	Aunicinal/Coun	tv St	ate Triba	al Private
			g., Tonto Nationa	l Forest)	-,	1,100 Let	nknown
				-			
Length of	area surveyed:	<i>0.1</i> 5 (kn	n)				
Vocatation	n Chamaatamiatiaa	. Chaola (auda, au	-)4				San a carrier
vegetatioi	n Characteristics	: Cneck (only on	e) category that t	best describes th	ne predomin	ant tree/shrub f	oliar layer at this site:
1/ N	Native broadleaf	plants (entirely o	or almost entirely	> 90% native)	1		
		prants (entirery (or annoor entirely	, - 5070 Hative)			
N	Mixed native and	l exotic plants (n	nostly native, 50	- 90% native)			
				,			
N	Mixed native and	l exotic plants (n	nostly exotic, 50 -	90% exotic)			
r	Zvatia/intradu = =	d nlanta (autius les	on olmoost	~ > 000/ =	. \		
	zaouc/miroauce(u pianus (entirely	or almost entirel	y, > 90% exotic	;)		
Identify th	ie 2-3 predomina	int tree/shrub spe	cies in order of d	lominance Use	scientific r	ames Cal	lu
	F	wood and ope	order or d		o solonillio 1	J417	X >PF.
				-			
Average h	eight of canopy	(Do not include	a range):	5_		(meters)	
Comments features.	s (such as start as Attach additiona	nd end coordinat I sheets if necess	es of survey area arv.	if changed amo	ong surveys,	supplemental	visits to sites, unique habitat Ving Visits to sites Let So Vings.
			· · · · · · · · · · · · · · · · · · ·				
1= see1	1 during	survey a	ay				
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Territory S	Summary Table.	Provide the foll	owing informatio	n for each verit	ied territors	at your site	
Territory	All Dates	UTM E	UTM N	Pair	Nest		on of How You Confirmed
Number	Detected			Confirmed? Y or N	Found?	Territo	ory and Breeding Status
: :			1	1 01 19	Y or N		
			1			nactin	zation type, pair interactions,
						nestin	zation type, pair interactions, ag attempts, behavior)
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	litional sheets if					nestin	

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.

						d Detection Form (revised	_			
Creek, Rive	r, Wetland, o	or Lake N	Name 🕡	nnan	109	State CA County Elevation 50				
= -	-	art: E <u>4</u> op: E <u>4</u> es change	725 726 d betwee	80 12 n visits, er	N 373 N 373 nter coordinate	ightings attached (as requi 0997 UTM 1 0803 UTM 2 es for each survey in comm nation on back of this	Datum Zone _ ents se	NADA	Yes <u>×</u> No 27/See instruction back of this	
Survey# Observer(s) (Full Name)	2012 Date (m/d/y) Survey time # 500 COMMENTS	Number of Adult WIFLs	Estimate d Number of Pairs	Estimated Number of Territories	Y or N	Comments (e.g., bird behavior; evidence of pairs or breeding; potential threats [livestock, cowbirds, Diorhabda spp.]). If Diorhabda found, contact USFWS and State WIFL coordinator	(this is an optional column for docume individuals, pairs, or groups of birds for			ocumenting irds found on
Survey # 1 Observer(s)	Date 15 May Start 0605 Stop 0850 Total hrs 75	0	0	0	\wedge	one Brown- Headed Cowbird (BHCO)	# Birds	Sex	UTM E	UTM N
Survey#2 Observer(s) Chet MCG-augh TE836517-6	Datelf Tun Start 0510 Stop 0950 4th Total hrs 10m	D	A	0	\vee	A BHCO	# Birds	Sex	UTM E	UTM N
Survey # 3 Observer(s) M(Gangk	Date 14 Jun Start 0525 Stop 0950 44 Total hrs 5 m	0	0	0	N	A BHCO	# Birds	Sex	UTME	UTM N
Survey # 4 Observer(s) G-F-eer	Date 20 Jm Start 0545 Stop 0811 Jh Total hrs 35m	A	0	0	N		# Birds	Sex	UTM E	UTM N
Stephen	Date 9 Jul Start 0445 Stop 0445 Total hrs.5	0	0	0	\wedge		# Birds	Sex	UTM E	UTM N
Overall Site Sur Totals do not equal each column. Include resident adults. Do migrants, nestlings, fledglings.	nmary the sum of le only not include	Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycatch			-	_ No <u>×</u> _
Be careful not to double count individuals. * 19 h Total Survey Hrs 25 m		00		0	0	If yes, report color combination(s) in the comments section on back of form and report to USFWS.				

Reporting Individual John F. Green

US Fish and Wildlife Service Permit # TE054011-5

State Wildlife Agency Permit # SC 001951 9 + tach year to USFWS and State Wildlife Agency by September 1st. Retain a copy for your records.

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

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

Reporting Individual	John r. G	-reen		Pho	one # <u>95</u>	<u>1-369-</u>	8060		
Affiliation AMEC	union al T	See il Cl		E-1	nail joh	n. F. gr Completed	201 @	arnec	c, carm
Site Name Valley-Iv Was this site surveyed	in a previous year?	Vac No	Linianovan				•		,
Did you verify that this	s site name is consis	tent with that used	in previous ve	- ears? Yes •	/ No	Not	Applicat	le.	
If site name is differen	t, what name(s) was	used in the past?	p			1100	тррпоис		-
If site was surveyed las	st year, did you surv	ey the same gener	ral area this yea	ır? Yes	No	If no, If no,	summari	ze belc	ow.
Did you survey the sar	ne general area durii	ng each visit to the	is site this year	? Yes _	No_	If no,	summari	ze belo	w.
M	C C .				_				
Management Authority	for Survey Area:	Federal N	lunicipal/Coun	ty Sta	ite	ribal	Private		
Name of Management	Entity or Owner (e.	g., Tonto National	Forest)			UNK	nown		-
Length of area surveye	d: <u>の・みみ</u> (kr	m)							
Vegetation Characteris	tics: Check (only on	e) category that b	est describes th	ne predomin	ant tree/sh	rub foliar la	yer at this	s site:	
Native broad	eaf plants (entirely	or almost entirely,	, > 90% native))					
Mixed native	and exotic plants (n	nostly native, 50 -	90% native)						
Mixed native	and exotic plants (n	nostly exotic, 50 -	90% exotic)					*	
Exotic/introd	aced plants (entirely	or almost entirely	y, > 90% exotic	e)					
1 double do 2 2 do		1 61				1.8			
Identify the 2-3 predon	mant tree/stiruo spe	ecies in order of d	ominance. Use	scientific n	ames. 5	91/X S	PP.		
Average height of cano	py (Do not include	a range):	7		(meter	rs)			
WIFL detections; 2) sk nests; 3) photos of the i Comments (such as sta features. Attach additional features times	nterior of the patch, rt and end coordinat onal sheets if necess	exterior of the pat es of survey area ary.	ch, and overall	site. Descri	oe any unic	que habitat f ntal visits to	eatures in sites, un	i Comn	nents. abitat
,									
A = seen durk	ng survey	day							
									-
Territory Summary Tal	ole. Provide the foll	owing information	n for each veri	fied territory	at your si	te.			
Territory All Dates	UTM E	UTM N	Pair	Nest	Desci	ription of H	ow Vou (Confirm	nad
Number Detected		OTIVITY	Confirmed?	Found?		erritory and			
			Y or N	Y or N		calization t			
						esting atten			, I

Attach additional sheets	if pagagany	<u> </u>	<u> </u>				···		

ts 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.

west/es/arizon	\underline{a}) for the	most up	o-to-date	e version						
	. 4					d Detection Form (revised	-			
Creek, Rive	r, Wetland,	or Lake N	Jame 🎜	nname	ed	Elevation Count			'd€ (mete Yes⊁ N	
	-	art: E <u>47</u> op: E <u>47</u> es change	72330 7242 d betwee	1 5 n visits, er	N 37307 N 3730 nter coordinate	99 UTM 494 UTM es for each survey in communation on back of this	Datum Zone _ nents se	NADA 11 ction (
Survey # Observer(s) (Full Name)	2012 Date (m/d/y) Survey time See Comments	Number of Adult WIFLs	Estimate d 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, Diorhabda spp.]). If Diorhabda found, contact USFWS and State WIFL coordinator	GPS Co (this is a individu each sur	GPS Coordinates for WIFL Detections (this is an optional column for documenting individuals, pairs, or groups of birds found ceach survey). Include additional sheets if necessary.		
Survey # 1 Observer(s)	Date S May Start OG 05 Stop 0850 Total hrs 75	0	0	0	N	ane BHCO	# Birds	Sex	UTM E	UTM N
Survey # 2 Observer(s) Chet McGaugh TE836517-6	Date 4 Jun Start 0510 Stop 0950 Gh. 400 Total hrs	0	A	0		A Brown-Meaded Combird (BHCO)	# Birds	Sex	UTM E	UTM N
Survey # 3 Observer(s) McGough	Date # Jun Start 0525 Stop 09 50 44, 25 m Total hrs	-0-	0	0	N	A BHCO	# Birds	Sex	UTM E	UTM N
Survey # 4 Observer(s)	Date 28 Jun Start 0545 Stop 0810 24 35 rn Total hrs	A	0	0	\wedge		# Birds	Sex	UTM E	UTM N
Survey#5 Observer(s)Steve Myers TE 504203-9	Date 9 Jul Start 0445 Stop 0945 Total hrs <u>5</u>	0	0	4	\wedge		# Birds	Sex	UTM E	UTM N
Overall Site Sur Totals do not equal each column. Include resident adults. Do migrants, nestlings, fledglings.	the sum of le only not include	Total Adult Residents	Total Pairs	Total Territories	Total Nests	Were any Willow Flycate If yes, report color combiners				No 🔀
Be careful not to do individuals.	uble gount 19 h 25m	4	0	-0	0	section on back of form a		/		

Reporting Individual John F. Green

US Fish and Wildlife Service Permit # TE054011-5

State Wildlife Agency Permit # Sc 201951 9 Hackgraft

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 <u>Jo</u> n AMEC	4n F. G	reen		Ph	one # <u>951-369-8060</u> mail <u>John, F. green @ grnec</u> , corn ite Report Completed <u>27 July 2012 (</u> drost)
Site Name	e Valley- Ivya	len Phase T	Vassaa Can	yan		ite Report Completed 27 Tel. 2012 (dealt)
Was this s	site surveyed in a	<i>len, Phase I, I</i> a previous year?	Yes. No	Unknown		
Did you v	erify that this sit	hat name(s) was	ent with that used	d in previous ye	ears? Yes _	No Not Applicable
		ear, did you surve		ral area this vea	ar? Yes	No If no, summarize below.
		general area durin				No If no, summarize below.
Managem Name of M	ent Authority for Management Ent	r Survey Area: ity or Owner (e.g	Federal M., Tonto National	Iunicipal/Coun Forest)	tySt	ate Tribal Private Unknown
Length of	area surveyed: _	0.32 (km)			
Vegetation	n Characteristics	: Check (only one	e) category that b	est describes th	ne predomir	nant tree/shrub foliar layer at this site:
1	Native broadleaf	plants (entirely o	r almost entirely,	, > 90% native))	
1	Mixed native and	l exotic plants (m	ostly native, 50 -	90% native)		
1	Mixed native and	l exotic plants (m	ostly exotic, 50 -	90% exotic)		d
F	Exotic/introduced	d plants (entirely	or almost entirely	y, > 90% exotic	e)	*
Identify th	ie 2-3 predomina	ant tree/shrub spec	cies in order of de	ominance. Use	e scientific 1	names. Salix Spp., Populus freme
Average h	eight of canopy	(Do not include a	range):	考 /	2	(meters)
WIFL dete	ections; 2) sketch	or aerial photo s	howing site locat	tion, patch shap	e, survey ro	ey area, outlining survey site and location of oute, location of any detected WIFLs or their be any unique habitat features in Comments.
features. A	Attach additional	I sheets if necessa	rv.			, supplemental visits to sites, unique habitat patch. Times are in standard
,				<i>y-1-101</i>	, ,,,,,	
<u>a seen</u>	during	survey d	ay			
Territory S	Summary Table.	Provide the follo	wing information	n for each verif	fied territor	y at your site.
Territory	All Dates	UTM E	UTM N	Pair	Nest	Description of How You Confirmed
Number	Detected			Confirmed? Y or N	Found? Y or N	Territory and Breeding Status (e.g., vocalization type, pair interactions, nesting attempts, behavior)
	z					
4 1 1 1 1						

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.

Site Name Valley - Lysel 9 Peace 1 Rosel K Cong 8 State A Count Riverside Crock, River, Welland, or Lake Name Wann synte of State A Count Riverside Isogny of USGS map marked with survey area and WFL sightings attached (as required)? Yes X No_ Survey Coordinates: State: E469844 N 37/24121 UTM DatumMAC/ISee instructions) Survey is Survey coordinates changed between vision, enter coordinates to hanged between vision, enter coordinates for each survey in comments contained between vision. State of Rosel State of	west/es/arizon	\underline{a}) for the	most up	o-to-date	e version	l .					
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	Total Survey Hrs	.5 m.									

Reporting Individual John F. Green

US Fish and Wildlife Service Permit # TE054011-5

State Wildlife Agency Permit # SC-001951 a Hach gent 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. <u>Submit form by September 1st</u>. Retain a copy for your records.

Reporting	g Individual <u>Jo</u> n A <i>MEC</i>	4n F. G	reen		Ph	one # 951-369-8060	
Site Nam	e Valley-Ivyg	<i>len, Phase I., t</i> a previous year?	Rosetta C	myon	E- Da	one # <u>951 - 369 - 8060</u> mail <u>John . F. green @ 9mec.com</u> ate Report Completed <u>27 July 2012 (</u> draft))
Did you v	verify that this sit	e name is consist	ent with that use	d in previous ye	ears? Yes_	No Not Applicable	
If site nar	ne is different, w s surveyed last w	hat name(s) was	used in the past?	Rosetta,	Unname.	No Not Applicable No Not Applicable No If no, summarize below.	
Did you s	urvey the same g	general area durin	g each visit to th	is site this year	? Yes	No If no, summarize below.	
North	patch sur	reyed 2009,	South pat	tch survey	red 2011,	bath surveyed 2012	
Managem Name of l	ent Authority for Management Ent	r Survey Area: ity or Owner (e.g.	Federal National	/unicipal/Coun	tySt	No If no, summarize below. bath sweyed 2012 tate Tribal Private Un Knawn	
				i roiest)		UNNAWA	
Length of	area surveyed: _	<u> 0. 16 </u>	1)				
Vegetatio	n Characteristics	: Check (only one	e) category that b	est describes th	ne predomir	nant tree/shrub foliar layer at this site:	
	Native broadleaf	plants (entirely o	r almost entirely	, > 90% native))		
	Mixed native and	l exotic plants (m	ostly native, 50 -	- 90% native)			
	Mixed native and	l exotic plants (m	ostly exotic, 50 -	90% exotic)			
		d plants (entirely			•		
Identify th	ne 2-3 predomina	int tree/shrub spec	cies in order of d	ominance. Use	e scientific i	names. Salik spp.	
		(Do not include a					
WIFL dete	ections; 2) sketch	n or aerial photo s	howing site locar	tion, patch shap	e, survey ro	ey area, outlining survey site and location of oute, location of any detected WIFLs or their	
nests; 3) p	hotos of the inter	rior of the patch, e	exterior of the pat	tch, and overall	site. Descri	be any unique habitat features in Comments.	
Comments	s (such as start a	nd end coordinate	es of survey area	if changed amo	ng survevs	, supplemental visits to sites, unique habitat	
features.	Attach additiona	sheets if necessa	ary.	/ .	1	, suppremental visits to sites, unique habitat	
* Surve	ey times	are for	tull marny	19, not jus	st this	patch. Times are in standard	1.
		survey da					
Territory S	Summary Table.	Provide the follo	wing informatio	n for each verit	fied territor	y at your site.	
Territory	All Dates	UTM E	UTM N	Pair	Nest	Description of How You Confirmed	-
Number	Detected			Confirmed?	Found?	Territory and Breeding Status	
				Y or N	Y or N	(e.g., vocalization type, pair interactions,	
						nesting attempts, behavior)	_
							_
							_
							_
Attach add	litional sheets if	nececcany					-



APPENDIX D CERTIFICATION

2012 Focused Surveys for Riparian Birds Valley-Ivyglen Transmission Line Project, Phase I August 2012



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:	 	
Doto:		