

## 2018 Focused Survey Results for Yellow-Billed Cuckoo

# **Los Angeles County Flood Control District Soft-Bottom Channels Maintenance**

Prepared for

Los Angeles County Flood Control District Stormwater Maintenance Division 900 South Fremont Avenue Annex Building, 2<sup>nd</sup> Floor Alhambra, California 91802 Contact: Nandini Moran

Prepared by

BonTerra Psomas 225 South Lake Avenue, Suite 1000 Pasadena, California 91101 T: (626) 351-2000 F: (626) 351-2030

Contact: Brian Daniels

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### **ATTACHMENTS**

### **Attachment**

- A Survey Area USGS Maps B Survey Area Aerial Maps
- C Site Photographs
- D Avian Compendium
- E USFWS July 17, 2018 Cuckoo Sighting Report
- F Yellow-billed Cuckoo Survey Summary and Site Description Forms
- G Surveyor Certificate Statement

### 1.0 INTRODUCTION

This report presents the results of focused surveys conducted in 2018 at 15 soft-bottom channel reaches for the federally Threatened and State Endangered yellow-billed cuckoo (*Coccyzus americanus*). The 2018 survey results are summarized below in Table 1.

TABLE 1
SUMMARY OF RESULTS OF 2018 YELLOW-BILLED CUCKOO FOCUSED
SURVEYS AT 15 SOFT-BOTTOM CHANNEL REACHES

Reach Number	Reach Name	Survey Results							
Los Angeles River Watershed									
14	May Channel (Main Channel Outlet into Pacoima Canyon)	Negative							
Dominguez Channel Watershed									
27	Wilmington Drain	Negative							
San Gabriel River Watershed									
40b	San Gabriel River – I-10 Freeway to Thienes Ave	Positive							
43a	San Gabriel River – Upper	Negative							
43b	San Gabriel River – Lower	Negative							
Santa Clara River Watershed									
71	Santa Clara River Main Channel (PD 1946)	Negative							
79	South Fork – Santa Clara River (Valencia Blvd Bridge Stabilizer)	Negative							
80	South Fork – Santa Clara River (PDs 1947 and 1946)	Negative							
82	Santa Clara River Main Channel (PD 2278)	Negative							
87	Castaic - Old Rd Drain (CDR 525.021D) Outlet	Negative							
97	Castaic Creek – The Old Rd (PD 1982)	Negative							
103	Bouquet Canyon Channel (PD 2225)	Negative							
104	Castaic Creek (PD 2441 Units 1 and 2)	Negative							
109	Santa Clara River – South Bank West of McBean Pkwy (MTD 1510)	Negative							
121	Santa Clara River – San Francisquito Creek	Negative							

As with the southwestern willow flycatcher (*Empidonax traillii extimus*) and least Bell's vireo (*Empidonax traillii extimus*), the yellow-billed cuckoo is a migratory species that is present in Southern California only during the summer breeding season. These three species have departed their breeding grounds by mid-September. As required by the LACFCD's regulatory permits, maintenance activities occur outside the time period (i.e., after September 15) in those soft-bottom channels with potential habitat for these species. Also required by the LACFCD's regulatory permits, habitat areas seasonally occupied by the least Bell's vireo that are identified in the focused surveys must be protected by flagging and these areas must be monitored by qualified biologists during clearing activities.

### 2.0 ENVIRONMENTAL SETTING

### 2.1 REGIONAL SETTING

The topography in Los Angeles County is diverse, containing coastline, flatlands, mountains, and desert within approximately 4,000 square miles. Elevations in the County range from sea level to over 10,000 feet above mean sea level (msl). The climate ranges from mild near the coast to severe in the high mountains and in the desert. This variation in environments has created a unique and diverse collection of biological resources (England and Nelson 1976).

The San Gabriel Mountains are a prominent topographic feature that include a portion of the headwaters of the Santa Clara, Los Angeles, Rio Hondo, and San Gabriel Rivers and are the source of streams that drain into the Antelope and Fremont Valleys. The San Gabriel Mountains rise 7,000 feet above msl from the Antelope and Santa Clarita Valleys and exert considerable influence on the climate, hydrology, and ecology of the lands around them. The San Andreas and other numerous faults have fractured the mountains so that they erode at a rapid rate. Hence, the stream basins along the northern slope are generally characterized by steep headwaters and sloping alluvial beds on the adjacent flatlands (CRA et al. 2001).

The Santa Monica Mountains are also a prominent topographic feature and include the headwaters of Malibu Creek and Topanga Creek; these are the source of streams that drain the Malibu Coast. The Santa Monica Mountains are up to 10 miles wide and reach an elevation of 3,100 feet above msl at Sandstone Peak. The Santa Monica Mountains have a complex structure because they have been uplifted and then eroded several times over the past 200 million years (Dale 1986; England and Nelson 1976).

There are 4 major rivers in Los Angeles County: the Los Angeles River is approximately 51 miles long (main stem) and drains 830 square miles; the Rio Hondo River is approximately 20 miles long (main stem) and drains 125 square miles; the San Gabriel River is approximately 59 miles long (main stem) and drains 350 square miles; and the Santa Clara River is approximately 75 miles long (main stem) and drains 1,616 square miles (LACDPW 2007). Numerous other streams also occur in Los Angeles County. Surface water in streams and rivers is generally only present during the winter and spring, in particular after storm events. Many storms do not generate sufficient runoff to sustain surface flow in all streams. In some areas, flows are supplemented with reclaimed water and agricultural and urban runoff. Particularly intense storms can result in flash floods or debris flows that can carry large amounts of sediment, rocks, and debris to be deposited in the valley below (CRA et al. 2001).

The Los Angeles River system has been extensively channelized to provide flood protection as it passes through several cities on its way to the Pacific Ocean. The Los Angeles River tributaries include Bell Creek, Calabasas Creek, Burbank Western Channel, Pacoima Wash, Tujunga Wash, Verdugo Wash, Arroyo Seco, Compton Creek, and the Rio Hondo River (LACDPW 2007). There are now over 400 miles of concrete-lined tributaries that feed into the main channel. Approximately 47.9 miles of the 51.0-mile river is concrete-lined. The two stretches where the river is not lined (i.e., soft or earthen-bottom channels) include the Sepulveda Flood Control Basin through the Glendale Narrows and south of Willow Street in Long Beach (LACDPW 2007). Reclaimed water enters the Los Angeles River at the Sepulveda Basin where the Los Angeles Department of Water and Power releases as much as 75 million gallons of reclaimed water daily from the Donald C. Tillman Water Reclamation Plant.

The San Gabriel River begins in the Angeles National Forest and flows through several cities on its way to the Pacific Ocean. The San Gabriel River tributaries include Walnut Creek, San Jose Creek, Coyote Creek, and numerous storm drains (LACDPW 2007). The headwaters of the San Gabriel River begin just north of Pasadena and northwest of Mount Wilson, where they flow through a steep canyon to Cogswell Reservoir. The west fork of the river then merges with the east fork and flows into the San Gabriel Reservoir. Below the reservoir, the east fork converges with the main stem of the San Gabriel River and flows through San Gabriel Canyon to Morris Reservoir. Below Morris Reservoir, the river flows through cities from Azusa to Seal Beach and empties into Long Beach Harbor.

The Santa Clara River is unique because it is the only major unchannelized river that drains the San Gabriel Mountains. The Santa Clara River is fed by five major tributaries: Sand Canyon, Mint Canyon, Bouquet Canyon, South Fork, and San Francisquito Canyon (LACDPW 2007). Further west, Castaic, Piru, Sespe, and Santa Paula Creeks join the river (CRA et al. 2001). The headwaters of the Santa Clara River are located near Acton, and the river runs approximately 100 miles to its outlet in the city of Ventura in Ventura County. Most development adjacent to the river is located in or near the city of Santa Clarita (LACDPW 2007).

The Malibu Creek Watershed is a system of independent streams that drain approximately 109 square miles in northwest Los Angeles County from the Santa Monica Mountains to the Pacific Ocean. These include Las Virgenes, Triunfo, and Cold Creeks, as well as other small streams that flow from the Santa Monica Mountains to Santa Monica Bay. These creeks flow through the cities of Agoura Hills, Calabasas, Malibu, Thousand Oaks, Westlake Village, unincorporated Los Angeles County, and Ventura County (LACDPW 2007).

The Ballona Creek Watershed is a ten-mile-long flood-control channel that drains the Los Angeles Basin from the Santa Monica Mountains to the north, the Interstate (1) 110 Freeway to the east, and the Baldwin Hills to the south. Altogether, the Ballona Creek Watershed drains approximately 130 square miles of the Los Angeles Basin. Creeks or drainages of this watershed include Centinela Creek, Sepulveda Channel, and Benedict Canyon Channel. These drainages pass through the cities of Beverly Hills, Culver City, Inglewood, Los Angeles, and West Hollywood (LACDPW 2007).

The Dominguez Watershed is situated in south Los Angeles County and drains approximately 133 square miles of the Los Angeles Basin into the Los Angeles Harbor. Parts of the cities of Hawthorne, Torrance, Gardena, and Carson and the community of Wilmington drain into the Dominguez Channel. Over 40 percent of this watershed consists of industrial, commercial, and transportation land uses (CRA et al. 2001; LACDPW 2007).

The Antelope Valley Watershed is a system of independent streams that drain approximately 1,200 square miles in north Los Angeles County from the San Gabriel Mountains and Kern County into the valley floor. These include Little Rock, Big Rock, and Mill Creeks, as well as other small streams that flow from the San Gabriel Mountains into the Antelope Valley. Due to the surrounding topography, these streams do not drain into the sea, but into dry lakebeds on the valley floor, with most surface flows infiltrating into groundwater basins or evaporating (CRA et al. 2001; LACDPW 2007). Because the valley lacks defined natural channels outside the foothills, it is subject to unpredictable sheet-flow patterns. The portion of the Antelope Valley Watershed in Los Angeles County includes the cities of Lancaster and Palmdale, with scattered clusters of sparse development outside these cities (LACDPW 2007).

### 2.2 LOCAL SETTING

In 2002, the LACFCD maintained 95 soft-bottom channel reaches located within its district boundaries, consisting of 885.58 acres that require management. Since 2002, ten soft-bottom channel reaches have been lost due to redevelopment or ownership change, but several more have been added to the list. As of 2018, the LACFCD manages 110 channel reaches (1 thru 121¹) that are located in 9 identified watersheds or regions of Los Angeles County:

- Los Angeles River Watershed: 26 channel reaches
- Dominguez Channel Watershed: 2 channel reaches
- Malibu Creek Watershed: 9 channel reaches
- San Gabriel River Watershed: 10 channel reaches
- Santa Clara River Watershed: 57 channel reaches
- Ballona Creek Watershed: 2 channel reaches
- Santa Monica Bay: 2 channel reaches
- Antelope Valley: 1 channel reach
- Cerritos Channel: 1 channel reach

In 1997, the 95 soft-bottom flood-control channel reaches encompassed 885.58 acres that included 205.27 acres of vegetation. Based on vegetation categories developed at the time, the 205.27 acres of vegetation included an estimated 105.32 acres of riparian vegetation, 63.40 acres of mule fat vegetation, and 36.55 acres of scrub vegetation (BonTerra 1999). These acreages have not been updated since that time and are presented here only to indicate the large amount of habitat under the LACFCD's jurisdiction.

The total does not add up to 119 because 11 channel reaches have been developed or had their ownership transferred.

### 3.0 PROPOSED PROJECT

### 3.1 BACKGROUND

To effectively control flood waters from the mountainous watersheds surrounding the Los Angeles Basin, the U.S. Army Corps of Engineers (USACE) and the LACFCD constructed concrete-bottom and earth-bottom (soft-bottom) channels leading from dams and debris basins located along the frontal slopes of the San Gabriel, Santa Monica, Verdugo, and Santa Susanna Mountains. Construction began in the 1930s. These channels, as a system, provide flood protection for Los Angeles County.

Channel maintenance activities have been performed regularly in LACFCD channels for over 50 years. Originally constructed by the USACE, upon completion, most of the channel facilities were transferred to the LACFCD for cyclic maintenance. The USACE's maintenance guidelines require that "debris, objectionable growth, shoals, and waste materials must not encroach on the invert. Excess materials that will not move readily with low flows must be removed. Measures must be taken to control objectionable growth by approved chemical or mechanical means" (USACE 1996).

The County formerly maintained channels clear of any vegetation, as required under the *Code of Federal Regulations* (CFR, specifically Title 33, Section 208.10), until the California Department of Fish and Wildlife (CDFW) began requiring the County to clear vegetation on alternating sides of the channels each year. The USACE allowed limited clearing between 1993 and 1995. Anticipated heavy rains during the 1997/1998 storm season caused by El Niño conditions resulted in a statewide need to remove vegetation and sediment from soft-bottom channels to restore their flood-carrying capacity. The LACFCD obtained all necessary permits to conduct this work in the 1997/1998 storm season and has continued the ongoing maintenance as approved by the permits.

### 3.2 PROJECT DESCRIPTION

Vegetative growth in a channel system reduces channel capacity. All soft-bottom channels were designed and constructed as relatively clean, unvegetated channels. As vegetation grows denser, the roughness of the channel increases and the velocity of flows decrease, which corresponds to a loss in the channel's carrying capacity. The vegetation also traps some of the sediments being transported by flood flows which, when deposited, further reduce channel capacity. Studies have shown that increased vegetation and sediments in the channels result in reduced flow area with a concomitant decrease in flow velocity. A loss of carrying capacity in the channels could cause flood flows to escape the channel systems and impact adjacent properties (LACDPW 1996).

Vegetation can also affect the structural integrity of bridges during a major storm event. Vegetation slows flood flows, which creates a backwater effect and increases water surface elevations upstream. Bridges are not normally designed to withstand the forces that result from significantly increased flood water elevations. Additionally, increased flood depths upstream can result in flooding of adjacent properties and erosion of channel banks.

The LACFCD performs minor grading and annual vegetation clearing in channels to retrain channel flows consistent with the clearing limits established by the permitted maintenance plan (BonTerra 1999). This ongoing program is necessary to maintain the design capacities of the channels and to ensure the proper functioning of the facilities located within the LACFCD boundaries.

Within each reach, the LACFCD proposes to clear the same areas (and acreage) that have been cleared annually since 1997. Biological impacts to these channel reaches associated with the initial vegetation clearing for maintenance activities were previously mitigated through maintaining and enhancing 62.7 acres of riparian habitats at the Big Tujunga Wash Mitigation Bank site (BonTerra 1999).

Channel clearing activities are performed primarily by mechanical means, using heavy equipment (such as trucks, bulldozers, dump trucks, and loaders), as well as other specialized equipment designed for this type of work. Hand clearing is conducted in areas where mechanical equipment cannot be used or where important biological resources exist nearby. Herbicides approved by regulatory agencies are applied as authorized by permit condition, as necessary, to eradicate invasive and/or non-native vegetation including, but not limited to, giant reed (*Arundo donax*) and castor bean (*Ricinus communis*).

The channel clearing activities are performed under an existing Maintenance Plan approved by the Los Angeles Regional Water Quality Control Board (RWQCB) and USACE and modified by the CDFW under the LACFCD's existing Streambed Alteration Agreement. BonTerra Psomas has reviewed the Maintenance Plan and has extensive knowledge of channel clearing activities in all channel reaches, having worked with the LACFCD since 1997 to provide biological monitoring of flood-control channel maintenance work. Pre-clearing and post-clearing photos have been taken every year to document the biological resources in these channel reaches in compliance with the mitigation requirements of existing permits from the USACE, RWQCB, and CDFW.

### 4.0 SPECIAL STATUS SPECIES BACKGROUND

In order to comply fully with the regulatory permits issued to the LACFCD, surveys are performed for a variety of special status species at soft-bottom channel reaches where suitable or potentially suitable habitat has been identified. For example, the permits require annual pre-clearing surveys for the federally and State-listed Endangered unarmored threespine stickleback (*Gasterosteus aculeatus williamsoni*) and federally listed Threatened Santa Ana sucker (*Catostomus santaanae*). Results of these fish surveys were included with previous focused survey efforts (BonTerra 2002, 2003), but have since been reported separately to the LACFCD. Since the 2002 and 2003 focused survey efforts, surveys for the federally listed Endangered arroyo toad as well as the federally and State-listed Endangered southwestern willow flycatcher and least Bell's vireo have been conducted every other year (BonTerra 2005, 2007, 2009, 2011, 2013, 2015, Psomas 2017).

Although State-listed Threatened on June 27, 1971, and State-listed Endangered on March 26, 1988 (CDFW 2016), focused surveys for the yellow-billed cuckoo were not conducted prior to 2016 at any soft-bottom channel reaches due to the general lack of sufficiently large areas of potentially suitable riparian habitats that this species requires for breeding. Furthermore, because of the large amount of breeding habitat required, the yellow-billed cuckoo has been considered extirpated as a breeder in Los Angeles County since the 1950s. However, the western distinct population segment of the yellow-billed cuckoo was federally listed Threatened on November 3, 2014 and the U.S. Fish and Wildlife Service (USFWS) and USACE requested the LACFCD provide a summary of the yellow-billed cuckoo's status in the project region in order to renew the Nationwide Permit 31 for soft-bottom channels.

Psomas prepared and submitted a Technical Memorandum to the LACFCD on the status of yellow-billed cuckoo in the project region dated August 11, 2015 (BonTerra Psomas 2015). The Technical Memorandum recommended surveys at 11 soft-bottom channel reaches that support or are adjacent to willow-cottonwood habitats extensive enough to be potentially suitable for the yellow-billed cuckoo. These 11 soft-bottom channel reaches formed the following 5 proposed survey areas: (1) Reach 27; (2) Reach 43a; (3) Reaches 71, 79, 80, and 103; (4) Reaches 82 and 109; and (5) Reaches 87, 97, and 104. Note that the list includes soft-bottom channel reaches 103, 104, 109, and 121 that are not yet fully permitted. Non-permitted channel reaches are included in annual monitoring surveys and, if appropriate, focused surveys for Threatened and Endangered species in order to facilitate their future permitting.

The USACE Nationwide Permit issued on November 23, 2015, covered soft-bottom channel reaches 1 thru 100 and included a requirement for yellow-billed cuckoo surveys at the following 13 channel reaches: 14, 27, 39, 40a, 43a, 43b, 44, 71, 79, 80, 82², 87, and 97. San Gabriel River Watershed Reaches 39 and 44 were originally required and conducted in 2016 but subsequently in 2018, the Army Corps of Engineers staff authorized discontinuation of cuckoo surveys at these reaches due to lack of potentially suitable habitat. The 11 reaches originally included in the Nationwide Permit surveyed in 2018 include 14, 27, 40a, 43a, 43b, 71, 79, 80, 82, 87, and 97.

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Avoidance and minimization measure 2c of the November 23, 2015, permit lists only 12 soft-bottom channel reaches; however, the appendices of the permit include Table 1, which lists Reach 82 with the other 12 channel reaches requiring "avian bio-monitoring" for the yellow-billed cuckoo, as well as "Not Authorized" channel reaches 103, 104, and 109. A biological reconnaissance survey was conducted for Reach 121 and it was determined to contain potentially suitable habitat for the cuckoo.

Combined with unpermitted channel reaches 103, 104, 109, and 121, these 15 soft-bottom channel reaches form the following 7 survey areas:

- Survey Area 1: Reach 14
- Survey Area 2: Reach 27
- Survey Area 3: Reach 40b
- Survey Area 4: Reaches 43a and 43b
- Survey Area 5: Reaches 71, 79, 80, and 103
- Survey Area 6: Reaches 82, 109, and 121
- Survey Area 7: Reaches 87, 97, and 104

This report provides the results of surveys for the yellow-billed cuckoo at these 7 Survey Areas (i.e., 15 soft-bottom channel reaches). See Attachments A and B for Survey Area Maps and Attachment C for representative photographs for each Survey Area.

### 4.1 YELLOW-BILLED CUCKOO

The yellow-billed cuckoo formerly bred throughout the western United States to British Columbia, Canada, but has declined dramatically over the past 100 years due to the widespread loss of lowland riparian forests dominated by willows (*Salix* spp.) and cottonwoods (*Populus* spp.) (Hughes 1999). It no longer breeds in western Canada, Washington, Oregon, or Montana, and it continues to decline in California (USFWS 2014). A California statewide survey conducted in 1977 of floodplain riparian forests where this species occurred historically or where habitat appeared suitable, found a total of 141 yellow-billed cuckoos (Gaines and Laymon 1984). Another statewide survey in 1986–1987 found a total of 30 to 33 pairs and 31 unmated male yellow-billed cuckoos at 9 locations; the majority were concentrated along the upper Sacramento River from Red Bluff to Colusa and at the South Fork Kern River (Laymon and Halterman 1989). Recent surveys conducted in 2010, 2012, and 2013 along the Sacramento and Feather Rivers in the Sacramento Valley show a continuing decline in cuckoo numbers despite a net gain in suitable habitats over the last 30 years; causes for the continuing population decline along the Sacramento and Feathers Rivers are unknown (Dettling et al. 2015).

During the 1977 statewide survey discussed above, only three yellow-billed cuckoos were found in the Southern California Coastal Region from Ventura County south to San Diego County; all three cuckoos were along the Santa Ana River in the Prado Basin of western Riverside County (Gaines and Laymon 1984). A small local population of yellow-billed cuckoos persisted in the Prado Basin until 1995 with numbers ranging from three in 1985 to seven in 1987 (Pike et al. 2004). After widespread flooding in the basin during spring season 1995, only one or two yellow-billed cuckoos were detected annually until 2001, followed by no detections from 2002 to 2004 (Pike et al. 2004). Far more yellow-billed cuckoos than normal were reported in Southern California during the 2011 summer season and included one single bird in the Prado Basin on June 23, 2011 (McCaskie and Garrett 2012; Western Riverside MSHCP 2012). As a breeder, the yellow-billed cuckoo appears to have been extirpated from the Santa Ana River Watershed, including the Prado Basin.

This species formerly nested in the Los Angeles, San Gabriel, and the Santa Clara River systems (Allen and Garrett 1996). Breeding persisted until at least 1952 in the San Gabriel River near El Monte (Long 1993; Garrett and Dunn 1981). There has been no documented nesting of this species in Los Angeles County since the late 1950s, although breeding is still "conceivable" in

remnant riparian habitat along the Santa Clara River (Allen and Garrett 1996). In recent years, it occurs in Los Angeles County and elsewhere in the Southern California Coastal Region only as a rare migrant (Lehman 2015; Unitt 2004; Hamilton and Willick 1996; Garrett and Dunn 1981; Webster et al. 1980). For example, one yellow-billed cuckoo was observed at the Piute Ponds in the Antelope Valley, Los Angeles County, from July 1 to 6, 2015 (eBird 2015). The Piute Ponds do not support suitable breeding habitat for this species but do serve as a migrant "trap" that holds migrants for short stays. Additionally, one cuckoo was observed on June 22, 2016 during focused surveys for LADPW in Reach 27 (Psomas 2016). This cuckoo observed at Wilmington Drain (Reach 27) was observed during a time period in which migrants occur in the region, and this individual cuckoo was most likely a migrant (Psomas 2016).

Estimates of how much riparian habitat is needed for breeding varies, but it is clear that the western yellow-billed cuckoo prefers large areas of suitable riparian habitat. The final draft survey protocol for the western yellow-billed cuckoo states that it nests almost exclusively in low to moderate elevation riparian woodlands with native broadleaf trees and shrubs that are 20 hectares (50 acres) or more in extent within arid to semiarid landscapes (Halterman et al. 2015). Yellow-billed cuckoos rarely use smaller patches of habitat (less than 50 acres), particularly when those small patches are distant from other patches of riparian habitat. In California, yellow-billed cuckoos prefer riparian habitats that contain 3 hectares (7 acres) or more of closed canopy, with canopy heights of 5 to 30 meters (16.4 to 98.4 feet) and understory vegetation heights of 1 to 6 meters (3.28 to 19.7 feet) (Laymon and Halterman 1989). They are most commonly associated with cottonwood-willow dominated vegetation cover, but the dominant species can vary across the entire range of the western yellow-billed cuckoo. Willows and cottonwoods are the dominant plant species of cuckoo habitat in California (Halterman et al. 2015).

The Seasonal Reports in the journal *North American Birds* typically contain only reports of yellow-billed cuckoos observed away from known nesting localities, but often state whether or not the observed cuckoo was in an area of suitable breeding habitat. The online database, started in 2002 by the Cornell Lab of Ornithology and the National Audubon Society (eBird) is also contributing information regarding yellow-billed cuckoo distribution. Although there have been no recent confirmed breeding observations in the Southern California Coastal Region, there are multiple observations of yellow-billed cuckoos at some locations with suitable or potentially suitable breeding habitat, including the lower Santa Clara River in Ventura County, the Whittier Narrows area in Los Angeles County, Prado Basin in Riverside and San Bernardino Counties, San Joaquin Marsh in Orange County, and San Luis Rey River near Oceanside in San Diego County. These observations generally consist of single birds, but often occur at times that suggest summering individuals rather than migrants. This species is usually very difficult to see because it can remain motionless for long periods of time and typically stays within dense vegetation cover. It can also be difficult to hear as it calls intermittently on its breeding grounds and may be remain silent for long time periods.

### 5.0 SURVEY METHODS

The USFWS survey protocol for yellow-billed cuckoo requires a minimum of four surveys be conducted in three time periods that span the peak of breeding activity for the western populations of this species (Halterman et al. 2015). The survey protocol is designed to assess whether or not the yellow-billed cuckoo is present at a given site. The use of call-playback detects yellow-billed cuckoos that may otherwise be overlooked and has an 80 percent probability of detecting an individual yellow-billed cuckoo and 95 percent probability of detecting cuckoos present during the breeding season (Halterman et al. 2016). Survey Period 1 is from June 15 to June 30 and only one survey is required in this time period. Migrating yellow-billed cuckoos are passing through, but breeding birds are also arriving during this time period. Two surveys are required during Survey Period 2, which is from July 1 to July 31. Individual cuckoos encountered during this time period are mostly breeders, but are occasionally migrants, wandering individuals, or young of the year. Survey Period 3 is from August 1 to August 15 and only one survey is required in this time period. Most breeding yellow-billed cuckoos have finished breeding activities and are departing during this third survey time period.

Psomas Senior Biologists Brian E. Daniels (USFWS Permit No. TE821401-5) and Lindsay Messett (USFWS Permit No. TE-067064-3) conducted all surveys. Both Mr. Daniels and Ms. Messett used compact speakers capable of broadcasting recorded bird calls in excess of 70 decibels. Per USFWS survey protocol for the species, the recorded contact or "kowlp" calls<sup>3</sup> of yellow-billed cuckoo were played five times at one-minute intervals at each calling station (or point) established in each Survey Area. Calling points were recorded on global positioning system (GPS)-capable devices for repeatability. Calling points were established approximately every 100 meters in riparian habitat that provided potentially suitable habitat for the yellow-billed cuckoo.

Occasional survey assistance was provided by Psomas Senior Biologist Marc Blain, and Biologists Sarah Thomas, and Cristhian Mace. The surveys were conducted under optimal weather conditions and during the early morning hours when bird activity is at its peak. All bird species detected during the surveys were recorded, including all incidental observations of least Bell's vireo. Survey data are presented below in Table 2. Avian lists for each survey area are provided in Attachment D.

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<sup>&</sup>lt;sup>3</sup> The recorded calls were acquired by attendance at a USFWS sponsored conference for the yellow-billed cuckoo.

## TABLE 2 YELLOW-BILLED CUCKOO SURVEY DATA

				Survey Conditions			
Survey Area	Survey No.	Surveying Biologists	Survey Date	Start/End Time	Temp (°F)	Cloud Cover (%)	Wind Speed (mph)
	1	B. Daniels	6/17/18	0610-0930	57–59	100–100	9–8
	2	B. Daniels	7/5/18	0600-0900	61–76	5–10	10–2
1	3	B. Daniels	7/12/18	0610–0815	72–75	60–60	2–3
	4	L. Messett	8/3/18	0630-0900	72–79	30–20	0–1
	1	B. Daniels	6/27/18	0620-0900	63–68	100–20	2–2
2	2	B. Daniels	7/6/18	0645–0845	69–77	Clear-Clear	2–6
2	3	B. Daniels	7/16/18	0640-0830	68–72	90–60	3–4
İ	4	L. Messett	8/8/18	0620-0915	71–85	100–30	0–1
	1	B. Daniels	6/29/18	0600-0930	64–68	100–100	4–2
2	2	B. Daniels	7/10/18	0600-0950	74–81	80–50	1–2
3	3	B. Daniels	7/17/18	0600-1000	71–76	100-Clear	1–3
	4	L. Messett	8/1/18	0600-0905	73–84	Clear-Clear	0–1
	1	B. Daniels	6/16/18	0600-1045	64–66	100–100	3–6
4	2	B. Daniels	7/9/18	0600–1015	75–89	80–50	3–3
4	3	B. Daniels	7/13/18	0600-0830	70–73	5-Clear	2–2
	4	L. Messett	8/2/18	0550-1000	70–83	Clear-Clear	0–1
	1	L. Messett	6/20/18	0600–1100	60–79	40–15	0–3
_	2	L. Messett	7/5/18	0620-1055	63–87	25–45	0–1
5	3	L. Messett	7/27/18	0545–1120	70–88	Clear-Clear	0–2
	4	L. Messett	8/13/18	0600–1105	68–84	Clear-Clear	0–3
	1	B. Daniels	6/19/18	0545–1100	55–79	Clear-Clear	4–3
0	2	B. Daniels	7/3/18	0610–1100	59–75	100-Clear	3–9
6	3	B. Daniels	7/11/18	0610-1045	70–84	5–20	3–4
	4	L. Messett	8/7/18	0605–1050	72–87	Clear-Clear	0–2
	1	J. Feenstra	6/6/18 *	-	-	-	-
7	2	L. Messett	7/2/18	0615–1045	62–77	50–25	0–1
7	3	L. Messett	7/26/18	0600-1020	73–92	Clear-Clear	0–2
	4	L. Messett	8/9/18	0555–0935	70–86	Clear-Clear	0–2

<sup>°</sup>F: degrees Fahrenheit; mph: miles per hour

<sup>\*</sup> USFWS approved survey was conducted with negative results by other entity: The Western Foundation of Vertebrate Zoology.

### 6.0 SURVEY RESULTS

One yellow-billed cuckoo was heard and seen on July 17, 2018, in the San Gabriel River (Reach 40b of Survey Area 3; see Attachment B-2). This bird flew in silently from upstream after broadcasting recorded "kowlp" call five at the Calling Point. The cuckoo perched approximately 8 feet above the ground in a small dense willow next to open water, moved a couple of feet, then perched and looked in Mr. Daniels' direction. It then gave two or three quiet contact "kowlp" calls from this location, then moved higher in the trees before flying upstream a short distance where one more series of "kowlp" calls were heard. No more audible or visual detections of the cuckoo were made. Per terms of Mr. Daniels's Federal Endangered Species Act (FESA) recovery permit, this observation was reported to the appropriate U.S. Fish and Wildlife Office within 24 hours of its occurrence (see Attachment E). Also, the Yellow-Billed Cuckoo Summary and Site Description forms are provided as Attachment F.

### 6.1 SURVEY AREA 1

The May Channel (Reach 14) Main Channel Outlet into Pacoima Wash is 588 feet in length and contains an area of 0.63 acre. The area burned during the 2016 Sage Fire. Burned willow riparian woodland is present along its length and in the two side outlets on the opposite side of Pacoima Wash. These three small side drainages, however, provide less than two acres of riparian woodland and not nearly enough to support breeding habitat for the yellow-billed cuckoo. As a result, the survey area was extended downstream across Harding Street to include the riparian woodland in the Lopez Debris Basin. The survey area is approximately 80 acres in size but contains only about 10 acres of burned riparian woodland.

No yellow-billed cuckoos were detected during these surveys, and no southwestern willow flycatcher or least Bell's vireo were present.

### 6.2 SURVEY AREA 2

The June 22, 2016, cuckoo observed at Wilmington Drain (Reach 27) was observed during a time period in which migrants occur in the region. Wilmington Drain and the adjacent Ken Malloy Regional Park (KMRP) are well-known "migrant traps", and this individual cuckoo was most likely a migrant. For the 2016 season, the survey area was confined to the limits of Reach 27 (3,045 feet long; 7.87 acres) because of the ongoing construction and restoration of KMRP.<sup>4</sup> In 2018, the yellow-billed cuckoo survey area for Reach 27 included the more extensive riparian woodlands south of Pacific Coast Highway in KMRP. The addition of the "north-end" willows of KMRP expands the survey area to about 50 acres, which includes at least 25 or 30 acres of riparian woodland.

No yellow-billed cuckoos were detected during these surveys, and no southwestern willow flycatcher or least Bell's vireo were present.

### 6.3 SURVEY AREA 3

Reach 40b is an approximately 2.25-mile stretch of the San Gabriel River between the I-10 and I-60 Freeways. The upper segment lacks riparian woodland, so only the lower segment at the confluence with San Jose Creek was included in Survey Area 4. This survey area was extended

The construction phase of the Proposition "O" Restoration project for Wilmington Drain (Reach 27) and Ken Malloy Regional Park (also known as Machado Lake) was completed in 2015 for Wilmington Drain and started in 2014 for Machado Lake.

downstream of San Jose Creek to include more riparian woodland habitat that is not part of Reach 40b. Although Survey Area 3 contains about 120 acres, the extent of riparian woodland is limited due to permitted maintenance activities performed annually by the LACFCD. About 12 acres of riparian woodland is present in Survey Area 3.

One yellow-billed cuckoo was detected during these surveys on July 17, 2018. The southwestern willow flycatcher was not present, but the least Bell's vireo was recorded during the surveys of Survey Area 3. These data points are presented on Attachment B.

### 6.4 SURVEY AREA 4

San Gabriel River Reaches 43a, and 43b are approximately 1.25 miles in length downstream of Whittier Narrows Dam and contain about 75 acres. Reach 43a has an irregular shape and contains more protected vegetation than most flood-control channels managed by the LACFCD. Reach 43b has a more standard shape (i.e., constant width) and maintenance plan (i.e., the trees are trimmed up from the ground). Survey Area 4 does not extend beyond the limits of Reaches 43a and 43b and contains about 30 acres of riparian woodland.

No yellow-billed cuckoos were detected during these surveys. The southwestern willow flycatcher was not present, but the least Bell's vireo was recorded during the surveys of Survey Area 4. These data points are presented on Attachment B.

### 6.5 SURVEY AREA 5

Survey Area 5 includes LACFCD's Reaches 71, 79, 80, and 103. These four soft-bottom channel reaches are adjacent to an open space area that consists of the Santa Clara River, South Fork Santa Clara River, and Bouquet Canyon Channel. Reaches 71 and 80 are two contiguous segments of the concrete bank that forms the south side of the Santa Clara River and the South Fork of the Santa Clara River from McBean Parkway upstream to near Valencia Boulevard. Reach 79 consists of the stabilizer that is immediately downstream of Valencia Boulevard. Reach 103 is the lower segment of Bouquet Canyon Road from Newhall Ranch Road to the confluence of Bouquet Canyon and the Santa Clara River. All together, these four flood-control facilities contain about 18 acres. Survey Area 5 for these 4 reaches totals approximately 195 acres and includes about 50 acres of riparian woodland.

No yellow-billed cuckoos were detected during these surveys. The southwestern willow flycatcher was not present, but the least Bell's vireo was recorded during the surveys of Survey Area 5. These data points are presented on Attachment B.

### 6.6 SURVEY AREA 6

Survey Area 6 includes LACFCD's Reaches 82, 109, and 121. These three soft-bottom channel reaches are adjacent to an open space area that consists of the Santa Clara River and San Francisquito Wash. Reach 82 is the concrete bank on the downstream side of the confluence of San Francisquito Wash and the Santa Clara River. Reach 109 is a transfer drain outlet on the south bank of the Santa Clara River just downstream of McBean Parkway. Reach 121 is located on the east bank of the San Francisquito Creek. Together, these three facilities contain about 16 acres. Survey Area 6 for these 3 reaches totals approximately 146 acres and includes about 81 acres of riparian woodland. Unfortunately, the ongoing drought has negatively affected much of the woodland habitat in Survey Area 6.

No yellow-billed cuckoos were detected during these surveys. The southwestern willow flycatcher was not present, but the least Bell's vireo was recorded during the surveys of Survey Area 6. These data points are presented on Attachment B.

### 6.7 SURVEY AREA 7

Survey Area 7 includes LACFCD's Reaches 87, 97, and 104. These three soft-bottom channel reaches are adjacent to an open space area of Castaic Creek. Reach 87 is a small outlet from The Old Road next to the I-5 Freeway. Reach 97 is the concrete bank that extends downstream from Reach 87. Reach 104 is downstream from Reaches 87 and 97 and a reinforced riprap bank on the east side of the creek. Together, these 3 facilities contain about 40 acres. Survey Area 7 for these 3 reaches totals approximately 185 acres and includes about 40 acres of riparian woodland. Unfortunately, the ongoing drought has negatively affected much of the woodland habitat in Survey Area 7.

No yellow-billed cuckoos were detected during these surveys. In addition, the southwestern willow flycatcher and least Bell's vireo were not recorded during these surveys of Survey Area 7.

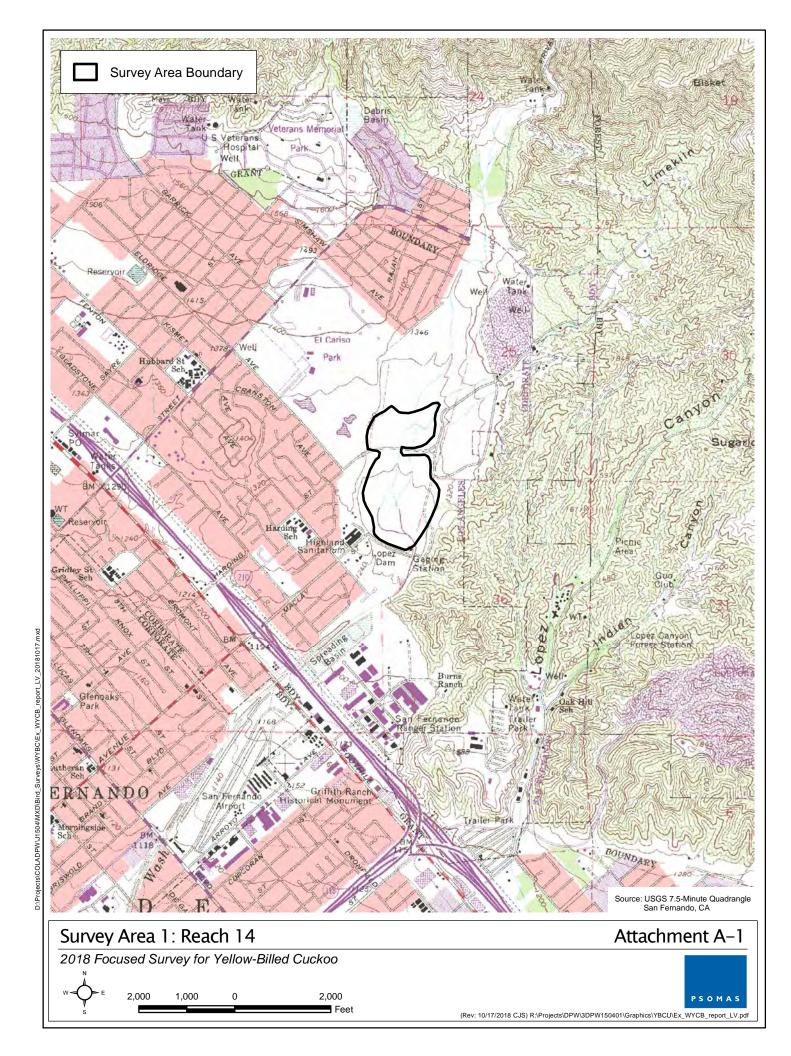
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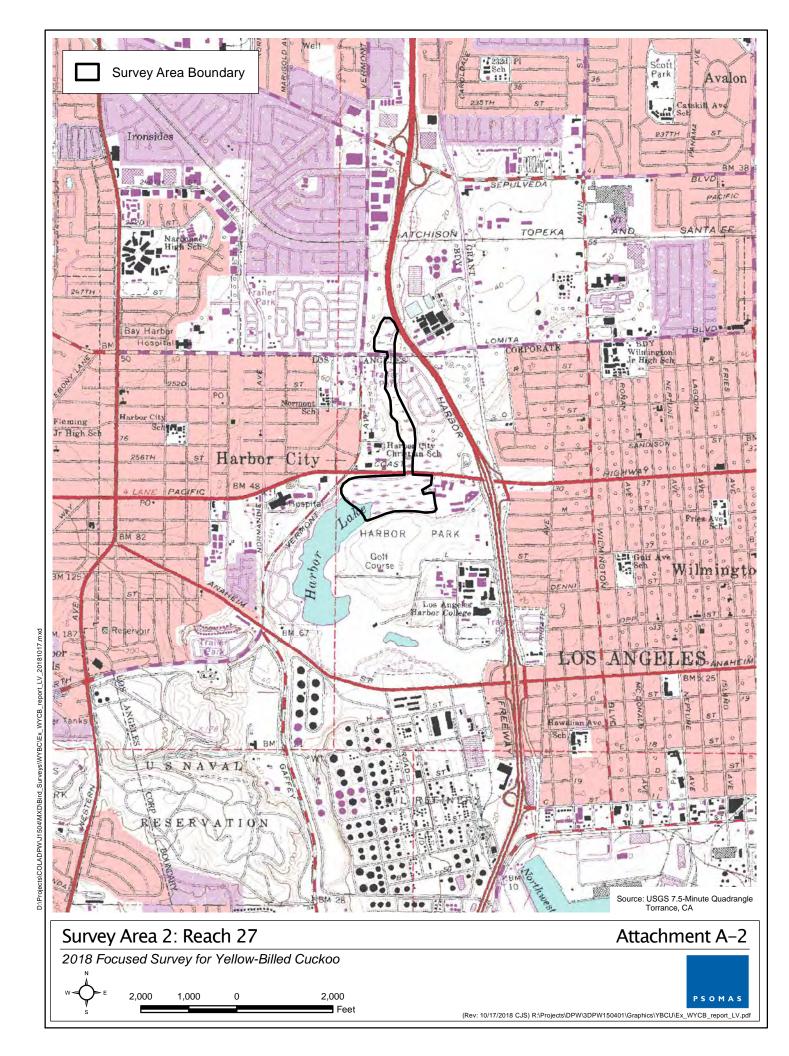
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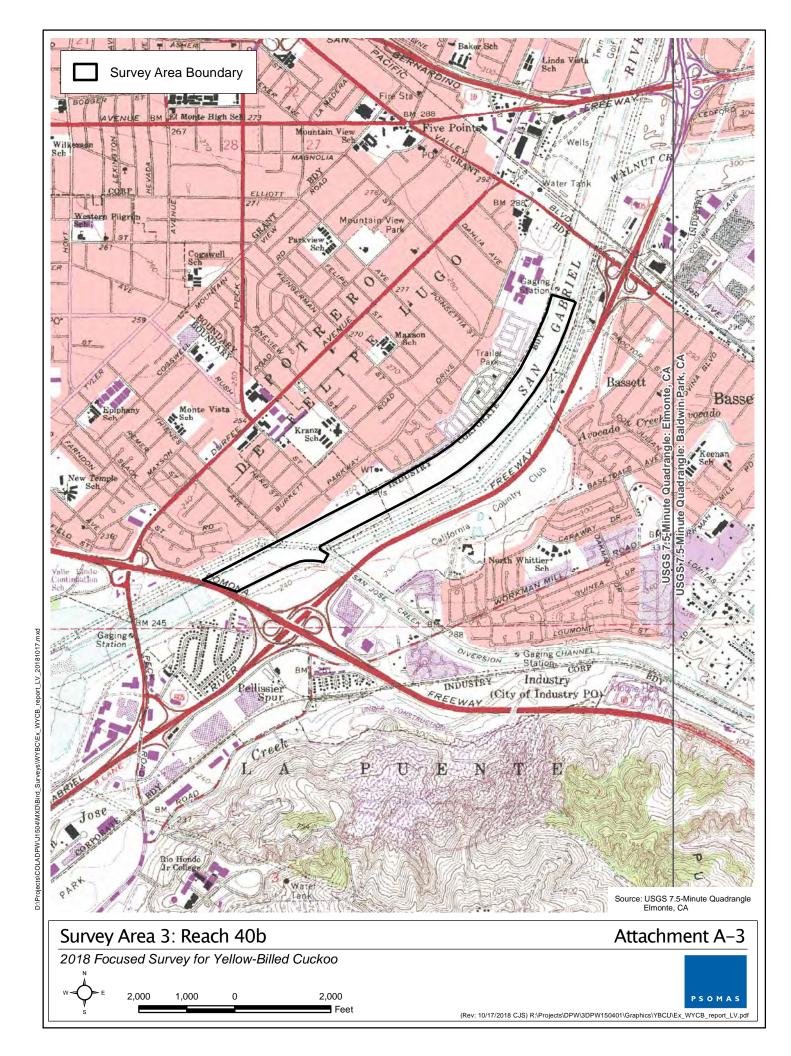
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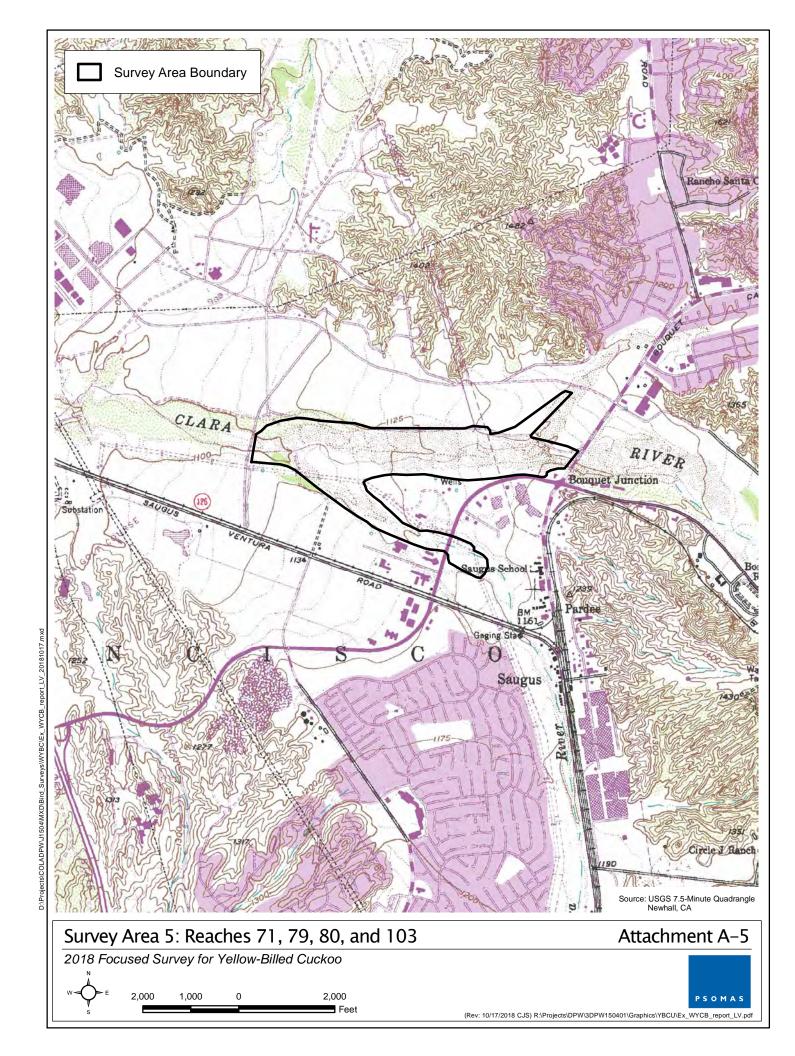
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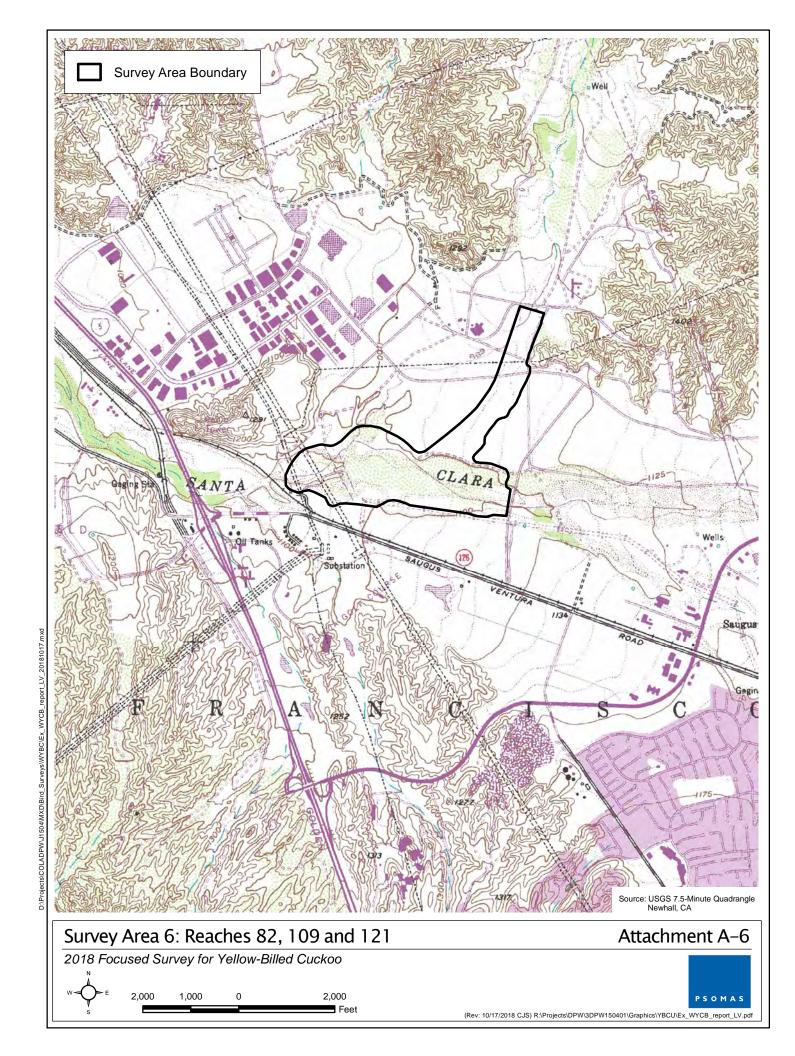
# ATTACHMENT A SURVEY AREA USGS MAPS

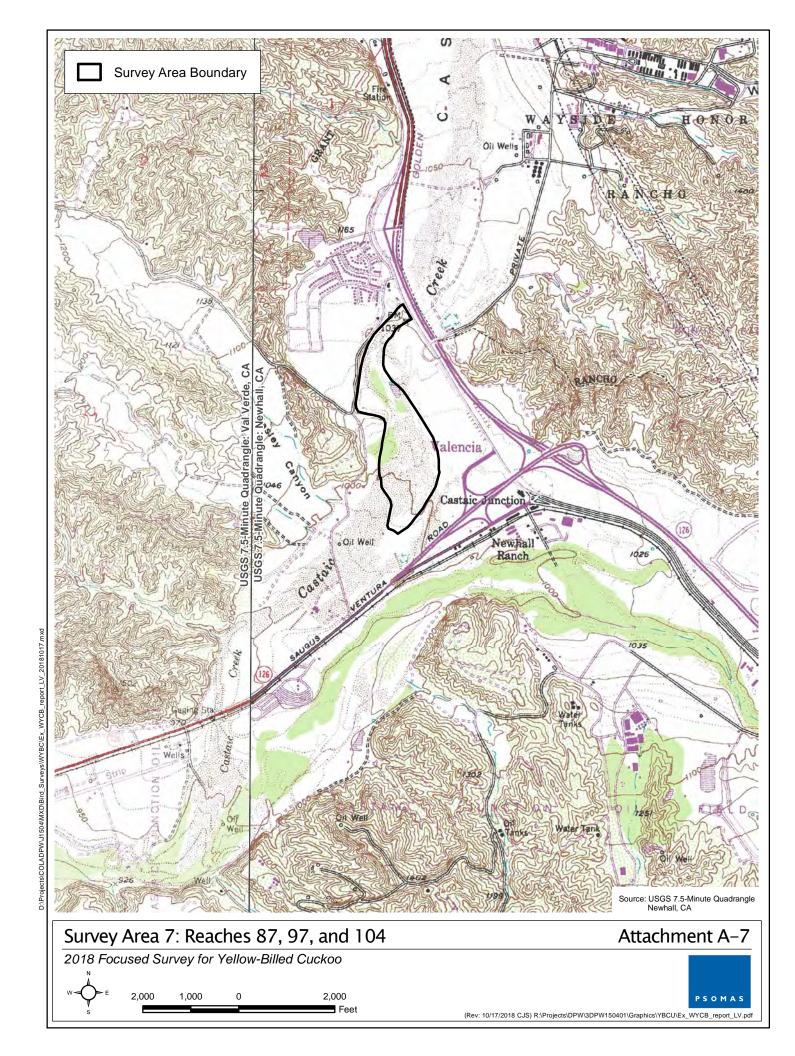




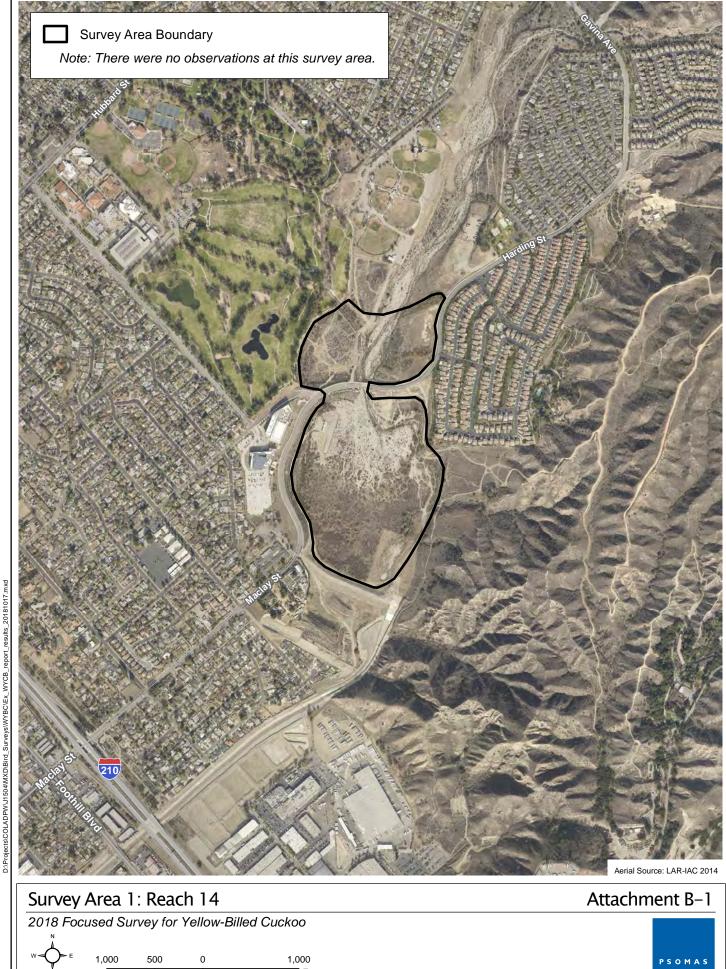








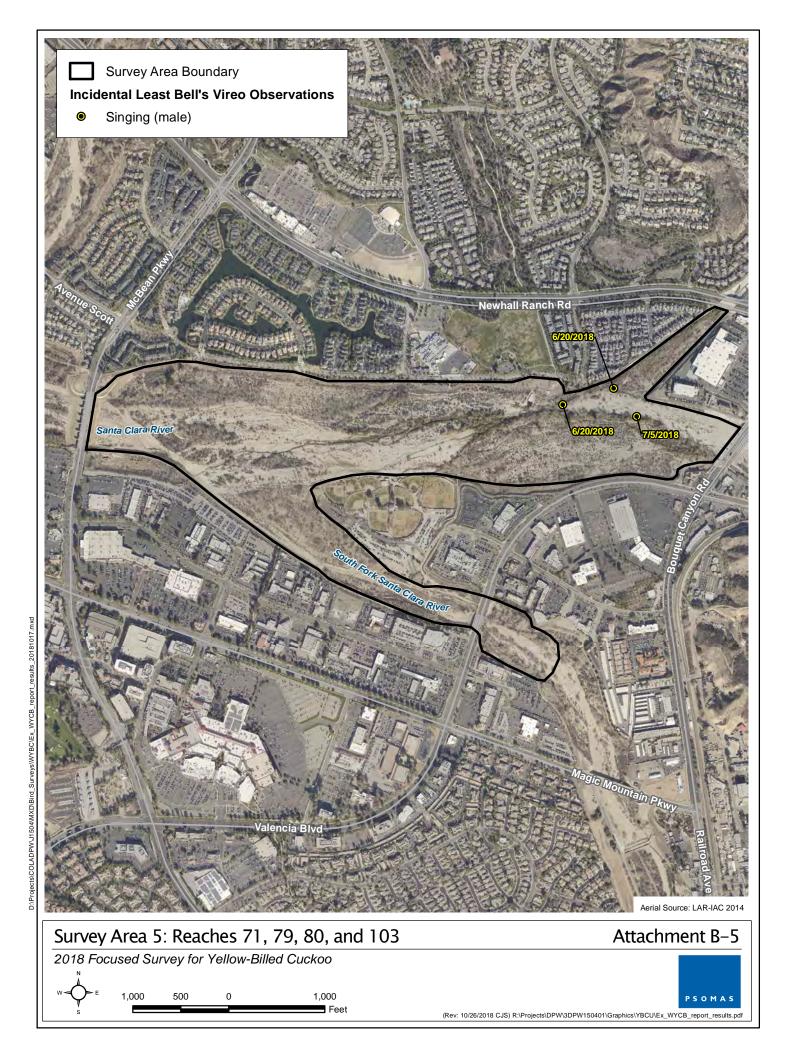
# ATTACHMENT B SURVEY AREA AERIAL AND RESULTS MAPS

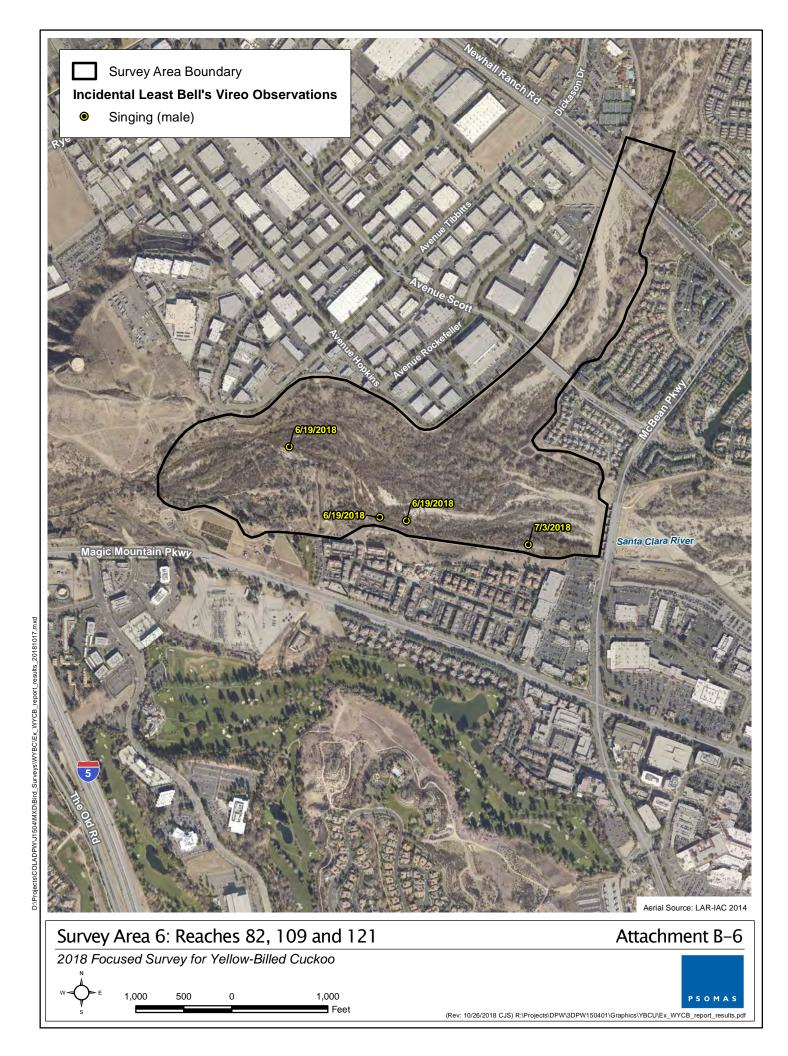


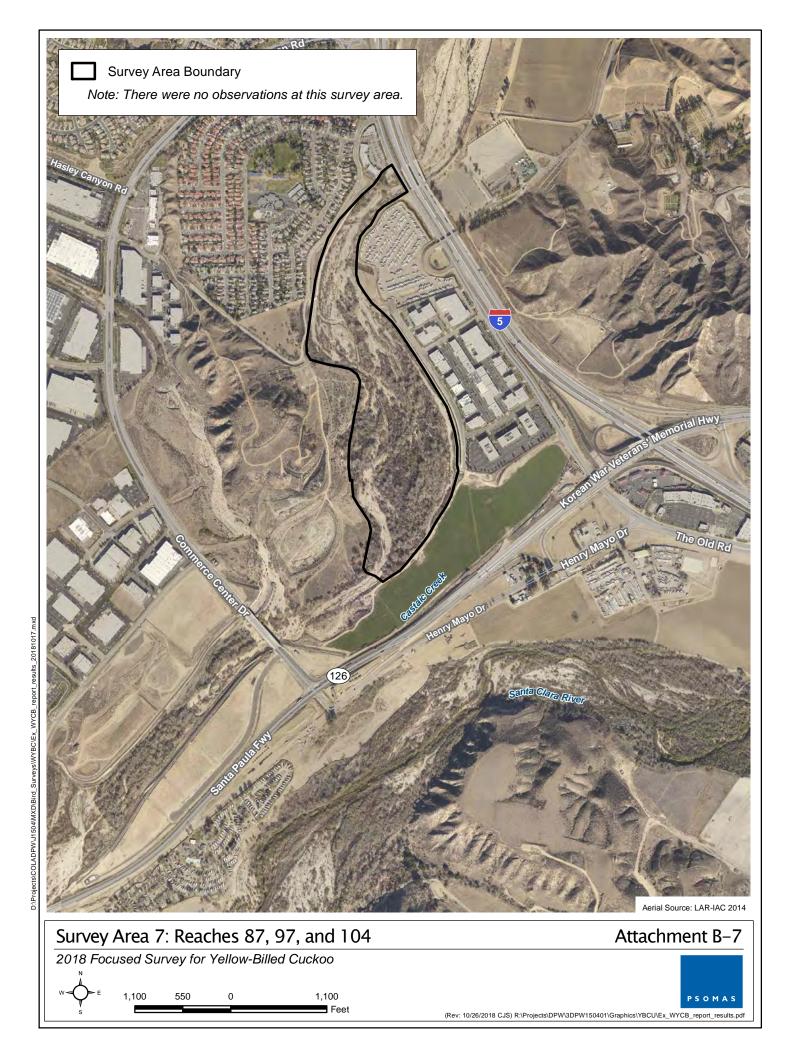
## Survey Area 2: Reach 27



2018 Focused Survey for Yellow-Billed Cuckoo







## ATTACHMENT C SITE PHOTOGRAPHS



View east from Harding St. of burned cottonwood and willow trees in Lopez Debris Basin downstream of Reach 14.



View of dying cottonwood trees at Reach 82, facing south east.



View of marsh and riparian vegetation at Reach 27, facing downstream (south) from Lomita Blvd.



View of Reach 27, facing upstream (north) from Lomita Blvd.



View of Reach 40b, facing downstream (southwest) toward last drop structure before San Jose Creek.



Photo of the yello-billed cuckoo observed at Reach 40b on July 17, 2018.

### Representative Site Photographs

2018 Focused Survey for Yellow-Billed Cuckoo



## ATTACHMENT D AVIAN COMPENDIUM

Species	Survey Area 1	Survey Area 2	Survey Area 3	Survey Area 4	Survey Area 5	Survey Area 6	Survey Area 7
Canada goose Branta canadensis	Х	Х		Х		Х	
mallard Anas platyrhynchos		Х	Х	Х			
California quail Callipepla californica	Х				Х	Х	Х
pied-billed grebe Podilymbus podiceps		Х	Х				
western/Clark's grebe Aechmophorus occidentalis/clarkii		Х					
rock pigeon Columba livia	Х	Х	Х	Х	Х		Х
Eurasian collared-dove Streptopelia decaocto	Х	Х	Х	Х	Х		Х
mourning dove Zenaida macroura	Х	Х	Х	Х	Х	Х	Х
yellow-billed cuckoo Coccyzus americanus			Х				
greater roadrunner Geococcyx californianus							Х
white-throated swift Aeronautes saxatalis			Х	Х		Х	Х
black-chinned hummingbird Archilochus alexandri				Х	Х	Х	Х
Anna's hummingbird Calypte anna	Х	Х	Х	Х	Х	Х	Х
Costa's hummingbird Calypte costae							Х
Allen's hummingbird Selasphorus sasin	Х					Х	
rufous/Allen's hummingbird Selasphorus rufus/sasin	Х	х	Х	Х	Х	Х	Х
common gallinule Gallinula galeata			Х				
American coot Fulica americana			Х				

Species	Survey Area 1	Survey Area 2	Survey Area 3	Survey Area 4	Survey Area 5	Survey Area 6	Survey Area 7
killdeer Charadrius vociferus			Х	х	Х		Х
western gull Larus occidentalis	Х	х		х			
Caspian tern <i>Hydroprogne caspia</i>		Х					
double-crested cormorant Phalacrocorax auritus		х	х	Х			
least bittern Ixobrychus exilis			х				
great blue heron <i>Ardea herodias</i>	Х	х	х		Х		
great egret Ardea alba	Х	Х	Х		Х		
snowy egret <i>Egretta thula</i>	Х		х				
green heron Butorides virescens		Х	Х		Х		
black-crowned night-heron Nycticorax nycticorax			х	Х	Х		
turkey vulture Cathartes aura					Х	Х	Х
Cooper's hawk Accipiter cooperii		Х	Х	Х	Х	Х	Х
red-shouldered hawk Buteo lineatus		Х		Х	Х	Х	
red-tailed hawk Buteo jamaicensis	Х		Х	Х	Х	Х	Х
acorn woodpecker Melanerpes formicivorus				Х		Х	
Nuttall's woodpecker Picoides nuttallii	Х		Х	Х	Х	Х	Х
downy woodpecker Picoides pubescens	Х	Х	Х	Х	Х	Х	Х
hairy woodpecker <i>Picoides villosus</i>					Х		
American kestrel Falco sparverius				х			х

Species	Survey Area 1	Survey Area 2	Survey Area 3	Survey Area 4	Survey Area 5	Survey Area 6	Survey Area 7
red-crowned parrot  Amazona viridigenalis				Х			
Pacific-slope flycatcher Empidonax difficilis					Х		Х
black phoebe Sayornis nigricans	X	Х	Х	Х	Х	Х	Х
Say's phoebe Sayornis saya	Х				Х		
ash-throated flycatcher <i>Myiarchus cinerascens</i>	X			х	Х	Х	Х
Cassin's kingbird Tyrannus vociferans	Х		Х	Х	Х		Х
Bell's vireo Vireo bellii			Х	Х	Х	Х	
warbling vireo <i>Vireo gilvus</i>	Х	х					
California scrub-jay Aphelocoma californica	Х				Х	Х	Х
American crow Corvus brachyrhynchos	Х	Х	Х	Х	Х	Х	Х
common raven Corvus corax	Х		Х	Х	Х	Х	Х
tree swallow Tachycineta bicolor						Х	
northern rough-winged swallow Stelgidopteryx serripennis	Х	х	Х	Х	Х	Х	
cliff swallow Petrochelidon pyrrhonota	Х		Х	х	Х	х	
barn swallow <i>Hirundo rustica</i>	Х	х	Х	Х	Х		Х
oak titmouse Baeolophus inornatus					Х	Х	Х
bushtit <i>Psaltriparus minimus</i>	Х	Х	х	Х	Х	Х	Х
white-breasted nuthatch Sitta carolinensis					Х	Х	
house wren <i>Troglodytes aedon</i>	Х			Х	Х	Х	Х

Species	Survey Area 1	Survey Area 2	Survey Area 3	Survey Area 4	Survey Area 5	Survey Area 6	Survey Area 7
marsh wren Cistothorus palustris	Х	Х					
Bewick's wren Thryomanes bewickii	X			Х	Х	Х	Х
red-whiskered bulbul Pycnonotus jocosus			Х				
wrentit Chamaea fasciata	X					Х	
western bluebird <i>Sialia Mexicana</i>	X	Х			Х	Х	Х
Swainson's thrush Catharus ustulatus							
American robin Turdus migratorius	Х		х				
California thrasher Toxostoma redivivum	Х				Х	Х	Х
northern mockingbird  Mimus polyglottos	Х	Х	Х	Х	Х		Х
European starling Sturnus vulgaris			х	Х	Х	Х	
phainopepla Phainopepla nitens	Х			Х		Х	
northern red bishop  Euplectes franciscanus			х				
scaly-breasted munia Lonchura punctulata	Х	х	х	Х		Х	
house sparrow Passer domesticus	Х		х	Х	Х		
house finch  Haemorhous mexicanus	Х	Х	Х	Х	Х	Х	Х
purple finch  Haemorhous purpureus				Х			
lesser goldfinch Spinus psaltria	Х	Х	Х	Х	Х	Х	Х
Lawrence's goldfinch Spinus lawrencei	Х					Х	
American goldfinch Spinus tristis			х	х			х

Species	Survey Area 1	Survey Area 2	Survey Area 3	Survey Area 4	Survey Area 5	Survey Area 6	Survey Area 7
yellow-breasted chat Icteria virens			Х				
spotted towhee Pipilo maculatus	X		X	X	Х	Х	Х
Rufous-crowned sparrow Aimophila ruficeps	Х						
California towhee Melozone crissalis	Х	Х	Х	X	Х	Х	Х
song sparrow <i>Melospiza melodia</i>	Х	х	Х	Х	Х	Х	Х
hooded oriole Icterus cucullatus	Х	х	Х	Х			х
Bullock's oriole Icterus bullockii	Х		Х	Х			х
red-winged blackbird Agelaius phoeniceus			Х	Х			
brown-headed cowbird  Molothrus ater			Х	Х			
Brewer's blackbird Euphagus cyanocephalus					Х		
great-tailed grackle  Quiscalus mexicanus	Х		Х	Х	Х		
orange-crowned warbler Oreothlypis celata							
common yellowthroat  Geothlypis trichas	Х	х	Х	Х	Х	х	
yellow warbler Setophaga petechial	Х	Х	Х	Х	Х	Х	х
black-headed grosbeak Pheucticus melanocephalus	Х	Х			Х	Х	Х
blue grosbeak Passerina caerulea	Х	Х	Х	Х			Х
lazuli bunting Passerina amoena	Х				Х		

# ATTACHMENT E USFWS JULY 17, 2018 CUCKOO SIGHTING REPORT



### ATTACHMENT F

## YELLOW-BILLED CUCKOO SURVEY SUMMARY AND SITE DESCRIPTION FORMS

This form is intended to measurements, and is o				•		_		precise
Fill in the following in	formation completely	У		Date Report	completed:	10/17/18		
Site Name: Reach	14		State: 0	CA			County: Los	Angeles
Name of Reporting Ind	ividual Brian Danie	ls	Affiliation	on Psomas				
Phone # (626) 351-20	000		Email:	brian.daniels(	@psomas.co	m		
USFWS Permit # TI	E <b>821401-5</b>		State Per	rmit# So	C-4535			
Site Coordinates:	Start: E 37025	5		N 3797649			UTM Zone:	11s
	Stop: E 37026	5	<b>.</b>	N 3796793			NAD: WG	S84
USGS Quad Name(s):	San Fernando			of area surveyed	l (in kilomet	ers) 0.85	Elevation:	1,130 ft
Name of nearest Creek,			<del></del>					
Ownership: BLM	Reclamation NPS	USFWS U	JSFS ´	Tribal State	Private	Other (Municip	akCounty)+	Fed (Acot)
Was site surveyed in pr			nknown	If yes, what si		used? Sav		
Did you survey the sam If "Yes", was the same			ear?	Yes/No		, summarize in c		
11 Yes, was the same	general area surveyed	tnis year?		(Yes)/No	it no,	, summarize in o	comments belov	W
Native/Exotic: The spec	cies in tree/shrub layer	at this site are	comprise	d predominantl	y of (check o	one):		
Native broadleaf plants	(>75% native)	$\overline{}$	Mixed n	ative and exotic	plants (mos	stly native 51%	-75%)	
Exotic/introduced plant	s (>75% exotic)		Mixed n	ative and exotic	plants (mos	stly exotic 51%	-75%)	
List up to 5 species of <1%; 10%, 25%, 50%  1. Salix spp  4.	% cover: 95 % cover:	<ul><li>2. Populus fr</li><li>5.</li></ul>			ver: 4	T.	racemosa	% cover: < \
Average height of overs	story (m)(do not includ	de a range)	<u>6</u>	Estimated Ove	rall Canopy	Cover (percent	) <b>S</b> °	70
List up to 5 species of each species. Use scien					, 50%, 75%		ite percent und	lerstory cover of % cover:
4.	% cover:	5.		% co				70 COVCI:
Average height of unde				Estimated Ov		(percent) -		
	he dominant vegetation ies of adjacent habita % cover: 50	t, and estimate  2. Disturbed	pez Debr	is Basin upstrea  cover. Use <1 % cover: 20	m to Pacoin %; 10%, 25	na Dam.	, 90%, 100%.	over: 20
4. Baccharis salicifolia	1% cover: 10	5.		% cover:				
Was surface water or sa Was surface water or sa	turated soil present at	or adjacent to a	ll patches	s surveyed?		Yes (	circle one) circle one)	
Comments. Reach 1.	4 is a small side cha	nnel that outle	ts into P	acoima Wash	unstream o	of Harding Stre	eet. It is situat	ed hetween a

Comments. Reach 14 is a small side channel that outlets into Pacoima Wash upstream of Harding Street. It is situated between a golf course and the main channel of Pacoima Wash. It is 588 ft long and supports strip of riparian habitat (0.63 acre). Two other small side channels supporting willows are on opposite side of Pacoima Wash. Riparian is upstream between Gavina St and the dam and downstream in the Lopez Debris Basin. This area has been impacted by recent wildfires including the Sage fire in July 2016 and Creek fire in December 2017. Even before these fires, this survey area contained no more than 10 acres of discontinuous riparian habitats. It was not recommended for these surveys in the habitat assessment, but required by the permits.

This form is intended to								ecise			
measurements, and is o  Fill in the following in				Date Report c		10/17/18	nis.				
	tormation completely	<b>/</b>	State: C.		ompicica.	10/1//16	County: Los Ar	ngeles			
	ame of Reporting Individual Brian Daniels none # (626) 351-2000				Affiliation Psomas						
								····			
<u> </u>				brian.daniels@							
USFWS Permit # TE	3821401-5		State Per	mit # SC-453	35						
Site Coordinates:	Start: E 38068	0		N 3740705			UTM Zone: 1	11s			
	Stop: E 380802						NAD: WGS8				
USGS Quad Name(s):	Torrance		Length o	N 3739757 f area surveyed	(in kilomete	rs) 1.0	Elevation: 23 ft				
Name of nearest Creek,		ike: Wilmingt		1 41 54 541 1 5 5 5 4	(	,	23 11				
Ownership: BLM	Reclamation NPS			Tribal State	Private (	Other (Municipa	al County)				
Was site surveyed in pr	evious vear?	No U	nknown	If yes, what sit	e name was	used?					
Did you survey the sam	e general area during	each visit this y		(Yes) No	If no,		omments below				
If "Yes", was the same	general area surveyed	this year?		(Yes) No	If no,	summarize in c	omments below				
Native/Exotic: The spec	cies in tree/shrub laver	at this site are	comprised	l predominantly	of (check o	ne):					
Native broadleaf plants		3/			***************************************	tly native 51%-	-75%)				
Exotic/introduced plant					<u> </u>	tly exotic 51%-	<del></del>				
<1%; 10%, 25%, 50%  1. Salix spp  4. Alnus rhombifolith Average height of overse List up to 5 species of	% cover: 90 ia % cover: 2 story (m)(do not include		7		ver: rall Canopy	3. Platanus rad Cover (percent)	40	% cover:			
each species. Use scien								<b>J</b>			
1.	% cover:	2.		% cov	ver:	3.		% cover:			
4.		5.		% cov							
Average height of unde	rstory (m)(do not inclu	ıde a range) 🕒		Estimated Ove	erall Cover (	percent) —	-				
Describe adjacent hab Wilmington Drain is s Ken Malloy Regional protected. List up to five categor	surrounded by resident Park that supports a re	ial and industria	al (mainly villow wo	oil) from the Hoodland. Native	Iarbor Freew habitats in th	ray to PCH, but nis area are curr	empties into the ently being restor		f		
		2. Indus	tral	% cover:	40	3.	% cove	er:			
4.	% cover:	5.		% cover:							
Was surface water or sa Was surface water or sa		<u>i</u>		<del></del>			circle one)				
	position "O" Project occupy the park. Be ons" as the reason fo	tween Lomita							by		

				Buivey Bite Di		·		
This form is intended to measurements, and is o								ecise
Fill in the following in				Date Report compl		10/17/18		
Site Name: Reach 40b			State:	CA			County: Los A	ngeles
Name of Reporting Ind	ividual Brian Daniel	S	Affiliatio	n Psomas				
Phone # (626) 351-	2000		Email:	brian.daniels@pson	nas.con	1		
	821401-5		State Per	mit # SC-4535				
OSI WOTCHINE T	.021401-3		L	50.000				
Site Coordinates:	Start: <b>E</b> 40658	30		N 3767801			UTM Zone: 11	S
	Stop: E 40479	0		N 3766641			NAD: WGS84	
USGS Quad Name(s):	El Monte		Length of	f area surveyed (in k	ilomete	ers) 2.15	Elevation: 255	ft
Name of nearest Creek,		ıke: San Gal	oriel River	•				
Ownership: BLM	Reclamation NPS	USFWS U	JSFS T	ribal State Priv	ate (	Other (Municip	al/County) + +	(ACOE)
Was site surveyed in pr	evious year?	Yes No U	nknown	If yes, what site nan	ne was	used?		
Did you survey the sam	e general area during	each visit this y		<b>€e</b> }/No			comments below	
If "Yes", was the same	general area surveyed	this year?		Yes) No	If no,	summarize in o	comments below	
Native/Exotic: The spec	cies in tree/shrub laver	at this site are	comprised	l predominantly of (	check o	one):		
Native broadleaf plants				tive and exotic plan			-75%)	
Exotic/introduced plant				tive and exotic plan				
Exone/infoduced plant	3 (* 1370 CXOIIC)		WIIACG IIC	arve una exerce plan	io (moo	ny eneme 5170	1373)	
List up to 5 species of <1%; 10%, 25%, 50%		and percent ca	nopy cov	er of each species.	Use sci	entific names.	For percent cove	r, please use
1. Salix spp	% cover: 48	2. Ornam	ental spp	% cover:	2	3. Populus fro	emontii	% cover: 🗸 🚶
4.		5.		% cover:				
Average height of overs	story (m)(do not includ	de a range)	8	Estimated Overall C	Canopy	Cover (percent	) 10	
List up to 5 species of each species. Use scien							te percent under	story cover of
1. Salix exigua	% cover: 95		is salicifo		5	3.		% cover:
4.		5.		% cover:				
Average height of unde		ide a range) 2	2	Estimated Overall	Cover (	percent)	50	
Describe adjacent hab Adjacent habitats with of the channel. These	itat (e.g. upland vege hin flood control chan areas grow back in sp	tation; desert s nel are cleared or ring mainly as	every year areas of ru	per conditions of the	e regul eeds) v	atory permits negetation.	ecessary for mana	agement of
List up to five categor			e percent		0%, 25			
1. Residential	% cover: 50	2. Nursery		% cover: 35		3. Disturbed	% cov	er: 15
4.	% cover:	5.		% cover:				
	70 COVEL.			70 001011		<u> </u>		
			site within		(	Yes No (	circle one)	
Was surface water or sa Was surface water or sa	turated soil present at	or adjacent to s		300 meters?	•		circle one)	

The combination of maintained areas (cleared) adjacent to protected polygons of riparian habitat have been productive for the least Bell's vireo. This year's Yellow-billed Cuckoo was surprising but in a general area (Whittier Narrows) that historically supported the species.

This form is intended to measurements, and is o									quires pr	ecise	
Fill in the following in			oi. Piease	Date Report			10/17/18	mems.			
Site Name: Reach 43a		<u>y</u>	State:	CA	compic	icu.	10/1//10	County	: Los A	ngeles	$\neg \uparrow$
Name of Reporting Ind		3	Affiliatio					<u>-</u>		ngolos	$\neg$
Phone # (626) 351		3	Email:	brian.dani	els@pso	mas.c	om				$\neg$
USFWS Permit # TE			State Per								
OSI WS I CHILL	021401-3			3043,	).)						
Site Coordinates:	Start: E 402:	547		N 3764877				UTM Z	Cone: 11	S	
	Stop: E 401	288		N 3763435				NAD:	WGS8	34	
USGS Quad Name(s):	El Monte		Length o	f area surveye	ed (in ki	lomete	ers) 1.9	Elevation	on: 185	ft	
Name of nearest Creek		ake: San Gabr	)								
Ownership: BLM	Reclamation NPS	USFWS U	JSFS 7	Γribal State	Priva	ate (	Other (Muni	cipal/Count	<b>y</b> )		
Was site surveyed in pr				If yes, what s							
Did you survey the san			ear?	Yes/N			summarize				
If "Yes", was the same	general area surveyed	this year?		(Yes/)	10	II no,	summarize	n commen	s below		
Native/Exotic: The spe	cies in tree/shrub laye	r at this site are	comprise	d predominan	tly of (cl	heck o	ne):				
Native broadleaf plants	(>75% native)	$\bigvee$	Mixed na	ative and exot	ic plants	s (mos	tly native 5	1%-75%)			
Exotic/introduced plan	ts (>75% exotic)		Mixed na	ative and exot	ic plants	s (mos	tly exotic 5	1%-75%)			
List up to 5 species of <1%; 10%, 25%, 50%  1. Salix spp  4. Eucalyptus sp	6, 75%, 90%, 100%.	2. Fraxinus s		% c	over:	Jse sci 5	3. Populus		ent cove	er, please us % cover:	2.5
Average height of over			'	Estimated O	verall Ca	anopy	Cover (perc	ent)	75		
List up to 5 species of each species. Use scien									ent under	rstory cover	r of
Baccharis salicifol		2. Salix e				25	1	namental sj	эр	% cover:	5
4.	% cover:	5.			over:						
Average height of unde	erstory (m)(do not incl	ude a range)	2	Estimated C	verall C	over (	percent)	75			
Describe adjacent hab Adjacent habitats with the channel. These are	in flood control changes grow back in sprin	nel are cleared e g mainly as area	very year as of rude	per condition ral (non-nativ	s of the	regula ) vege	tory permits	necessary	for mana	gement of	
List up to five categor  1. Residential	% cover: 40	2. Industria		% cover:	25	70, 2.		urbed	% cov	er: 25	
4. Golf Course	% cover: 10	5. mausura	a1	% cover:	23		DIS.	droed			
Was surface water or s		Lau adiacant ta c	المالية المالية	200 matara?		0	Yes No	(circle on	<u></u>		 1
Was surface water or si							Yes No				<u> </u>
Comments. The continuing re	gional drought is in	pacting the rip	oarian ve	getation espo	ecially	hard i	n this surve	ey area.			

This form is intended to provide a general descrition		
measurements, and is outside the scope of this surve		17/18
Fill in the following information completely Site Name: Reaches 71, 79, 80, and 103	State: CA	County: Los Angeles
	Affiliation Psomas	County: Dos ingeles
Name of Reporting Individual Brian Daniels Phone # (626) 351-2000		
	Email: brian.daniels@psomas.com  State Permit # SC-4535	
USFWS Permit # TE821401-5	State Permit # SC-4535	
Site Coordinates: Start: E 356440	N 3810312	UTM Zone: 11s
Stop: E 358431	N 3810218	NAD: WGS84
USGS Quad Name(s): Newhall	Length of area surveyed (in kilometers)	2.0 Elevation: 1,160 ft
	Santa Clara River	
Ownership: BLM Reclamation NPS USI	TWS USFS Tribal State Private Other	(Municipal County)
Was site surveyed in previous year? Yes		
Did you survey the same general area during each vi		narize in comments below
If "Yes", was the same general area surveyed this ye	ar? Yes/No If no, sumn	narize in comments below
Native/Exotic: The species in tree/shrub layer at this	site are comprised predominantly of (check one):	
Native broadleaf plants (>75% native)	Mixed native and exotic plants (mostly na	tive 51%-75%)
Exotic/introduced plants (>75% exotic)	Mixed native and exotic plants (mostly ex	otic 51%-75%)
List up to 5 species of overstory vegetation and pe <1%; 10%, 25%, 50%, 75%, 90%, 100%.  1. Salix spp % cover: 90 2.	Populus femontii % cover: 10 3.	c names. For percent cover, please use  Quercus lobata % cover: 1
4. % cover: 5.	% cover:	( ) 25
Average height of overstory (m)(do not include a ran	nge) 8 Estimated Overall Canopy Cove	r (percent) 25
List up to 5 species of understory/shrub vegetatio each species. Use scientific names. For percent co		6, 100%.
1. Baccharis salicifolia% cover: 50 2.	Salix exigua % cover: 30 3.	Tamarix ramosissima % cover: 15
4. Salix spp % cover: 5 5.	Typha sp % cover: 1	
Average height of understory (m)(do not include a ra	ange) 2 Estimated Overall Cover (perce	nt) 50
Describe adjacent habitat (e.g. upland vegetations Great Basin sagebrush, open wash, disturbed areas	, ruderal (weedy) vegetation, and tamarisk scrub.	
List up to five categories of adjacent habitat, and 1. open wash % cover: 50 2.	1 1 2/	reat Basin sagebrush% cover: 15
1. open wash       % cover:       50       2.         4. tamarisk       % cover:       15       5.	ruderal % cover: 15 3. G disturbed % cover: 5	reat Basin sugestastiff Cover.
Was surface water or saturated soil present at or adja Was surface water or saturated soil present at or adja	acent to site within 300 meters? Yes	No (circle one) (No) (circle one)
Comments.		
quality riparian habitats are located in the Sar	ons of the South Fork Santa Clara River and B ta Clara River Channel downstream of its con	fluence with Bouquet Canyon.

T1.1. C 1. 1.4.		<del></del>		veyed at a site. More details	<b></b>	alugia raquiras praeisa	
				check your permit for addi			
Fill in the following in			or. I lease	Date Report completed:	10/17/18	7110.	
	82, 109, and 121		State:	CA		County: Los Angeles	
Name of Reporting Ind		S	Affiliatio				
Phone # (626) 251-2	000		Email:	brian.daniels@psomas.con	1		
USFWS Permit # TE	821401-5		State Per	mit # SC-4535			
COI WOT CHINE			L				
Site Coordinates:	Start: E 3563	74		N 3810289		UTM Zone: 11s	
	Stop: E 3566	32		N 3811724		NAD: WGS84	
USGS Quad Name(s):	Newhall		Length o	f area surveyed (in kilomete	ers) 2.3	Elevation: 1,095 ft	
Name of nearest Creek,	River, Wetland, or La	ke: Santa Cla	ra River a	and San Francisquito Wash			
Ownership: BLM	Reclamation NPS	USFWS L	JSFS 7	Γribal State Private	Other (Municipa	al/County)	
Was site surveyed in pr	evious year?	Yes No U	nknown	If yes, what site name was	used?		
Did you survey the sam	e general area during	each visit this y		Yes/No If no,	, summarize in c	omments below	
If "Yes", was the same	general area surveyed	this year?		Yes No If no,	summarize in c	comments below	
Nativa/Evotia, The spec	nias in traa/shruh lavar	ot this site are	comprise	d predominantly of (check of	ne).		
Native broadleaf plants				ative and exotic plants (mos		75%)	T
							+
			Mived no	ative and evotic plants (mos	tly evotic 51%	-75%)	1
Exotic/introduced plant	s (>/5% exotic)		Mixed na	ative and exotic plants (mos	stly exotic 51%	-75%)	
List up to 5 species of	overstory vegetation	and percent ca				-75%) For percent cover, please u	ise
List up to 5 species of <1%; 10%, 25%, 50%	overstory vegetation b, 75%, 90%, 100%.	-		er of each species. Use sci			ise
List up to 5 species of <1%; 10%, 25%, 50%  1. Salix spp  4.	overstory vegetation 6, 75%, 90%, 100%. % cover: 75 % cover:	<ol> <li>Populus</li> <li>Topulus</li> </ol>	пору соч	er of each species. Use sci	lentific names.	For percent cover, please u	ise
List up to 5 species of <1%; 10%, 25%, 50%  1. Salix spp	overstory vegetation 6, 75%, 90%, 100%. % cover: 75 % cover:	<ol> <li>Populus</li> <li>Topulus</li> </ol>	пору соч	er of each species. Use sci	entific names.	For percent cover, please u % cover:	ise
List up to 5 species of <1%; 10%, 25%, 50%  1. Salix spp  4. Average height of overs  List up to 5 species of	overstory vegetation 6, 75%, 90%, 100%. % cover: 75 % cover: story (m)(do not include understory/shrub veg	2. Populus 5. le a range) getation (not al	nopy cov s Fremont 8 I sites wil	tii % cover: 25 % cover: Estimated Overall Canopy	3. Cover (percent	For percent cover, please u % cover:	
List up to 5 species of <1%; 10%, 25%, 50%  1. Salix spp  4. Average height of overs  List up to 5 species of	overstory vegetation 5, 75%, 90%, 100%. % cover: 75 % cover: story (m)(do not included understory/shrub vegetific names. For percent	2. Populus 5. le a range) getation (not al ent cover, plea	nopy cov s Fremont 8 I sites wil	tii % cover: 25 % cover: Estimated Overall Canopy	3. Cover (percent pry) and estimates, 90%, 100%.	For percent cover, please u % cover: 60 te percent understory cove	er of
List up to 5 species of <1%; 10%, 25%, 50%  1. Salix spp  4. Average height of overs  List up to 5 species of each species. Use scien  1. Baccharis salicifo	overstory vegetation 6, 75%, 90%, 100%. % cover: 75 % cover: story (m)(do not include understory/shrub vegetific names. For percelia % cover: 50	2. Populus 5. le a range) getation (not al ent cover, plea 2. Salix ex	nopy cov s Fremont 8 I sites wil se use <1	rer of each species. Use sci tii % cover: 25 % cover: Estimated Overall Canopy Il have a separate underste %; 10%, 25%, 50%, 75% % cover: 20	3. Cover (percent pry) and estimates, 90%, 100%.	For percent cover, please u % cover:	er of
List up to 5 species of <1%; 10%, 25%, 50%  1. Salix spp  4. Average height of overs  List up to 5 species of each species. Use scien  1. Baccharis salicifo  4. Salix spp	overstory vegetation 6, 75%, 90%, 100%. % cover: 75 % cover: story (m)(do not include understory/shrub vegetific names. For percential % cover: 50 % cover: 5	2. Populus 5. le a range) getation (not al ent cover, plea 2. Salix ex 5.	nopy cov s Fremont  8 I sites wil se use <1 xigua	rer of each species. Use sci tii % cover: 25 % cover: Estimated Overall Canopy Il have a separate understo %; 10%, 25%, 50%, 75% % cover: 20 % cover:	3. Cover (percent pry) and estima p. 90%, 100%. 3. Tamarix	For percent cover, please u % cover: 60 te percent understory cove	er of
List up to 5 species of <1%; 10%, 25%, 50%  1. Salix spp  4. Average height of overs  List up to 5 species of each species. Use scien  1. Baccharis salicifo	overstory vegetation 6, 75%, 90%, 100%. % cover: 75 % cover: story (m)(do not include understory/shrub vegetific names. For percential % cover: 50 % cover: 5	2. Populus 5. le a range) getation (not al ent cover, plea 2. Salix ex 5.	nopy cov s Fremont 8 I sites wil se use <1	rer of each species. Use sci tii % cover: 25 % cover: Estimated Overall Canopy Il have a separate underste %; 10%, 25%, 50%, 75% % cover: 20	Cover (percent pry) and estima process, 100%.  Tamarix	For percent cover, please u % cover: 60 te percent understory cove	er of
List up to 5 species of <1%; 10%, 25%, 50%  1. Salix spp  4. Average height of overs  List up to 5 species of each species. Use scien  1. Baccharis salicifo  4. Salix spp  Average height of unde  Describe adjacent hab Great Basin sagebru	overstory vegetation 6, 75%, 90%, 100%. % cover: 75 % cover: story (m)(do not include understory/shrub vegetific names. For perceutia % cover: 50 % cover: 5 rstory (m)(do not include understory/shrub vegetific names. For perceutia % cover: 50 % cover: 5 rstory (m)(do not include understory (m)(do not incl	2. Populus 5. le a range) getation (not al ent cover, plea 2. Salix es 5. le a range) tation; desert s	nopy cov s Fremont  8 I sites will se use <1 xigua  2 serub; ur	rer of each species. Use sci tii % cover: 25 % cover: Estimated Overall Canopy Il have a separate understo %; 10%, 25%, 50%, 75% % cover: 20 % cover: Estimated Overall Cover	Cover (percent pry) and estima p. 90%, 100%.  3. Tamarix (percent) 6	For percent cover, please u % cover: 60 te percent understory cover: ramosissima % cover:	er of
List up to 5 species of <1%; 10%, 25%, 50%  1. Salix spp  4. Average height of overs  List up to 5 species of each species. Use scien  1. Baccharis salicifo  4. Salix spp  Average height of unde  Describe adjacent hab	overstory vegetation 6, 75%, 90%, 100%. % cover: 75 % cover: story (m)(do not include understory/shrub vegetific names. For perceutia % cover: 50 % cover: 5 rstory (m)(do not include understory/shrub vegetific names. For perceutia % cover: 50 % cover: 5 rstory (m)(do not include understory (m)(do not incl	2. Populus 5. le a range) getation (not al ent cover, plea 2. Salix es 5. le a range) tation; desert s	nopy cov s Fremont  8 I sites will se use <1 xigua  2 serub; ur	rer of each species. Use sci tii % cover: 25 % cover: Estimated Overall Canopy Il have a separate understo %; 10%, 25%, 50%, 75% % cover: 20 % cover: Estimated Overall Cover	Cover (percent pry) and estima p. 90%, 100%.  3. Tamarix (percent) 6	For percent cover, please u % cover: 60 te percent understory cove ramosissima % cover: 0 x woodland)	er of
List up to 5 species of <1%; 10%, 25%, 50%  1. Salix spp  4. Average height of overs  List up to 5 species of each species. Use scien  1. Baccharis salicifo  4. Salix spp  Average height of unde  Describe adjacent hab Great Basin sagebru light industrial.	overstory vegetation b, 75%, 90%, 100%. % cover: 75 % cover: story (m)(do not include understory/shrub vegetific names. For percellia % cover: 5 % cover: 5 restory (m)(do not include understory/shrub vegetific names. For percellia % cover: 5 restory (m)(do not include understory), and the cover: 5 restory (m)(do not include understory	2. Populus 5. le a range) getation (not al ent cover, plea 2. Salix es 5. ade a range) tation; desert suderal and distu	s Fremont  8 I sites will se use <1 xigua  2 scrub; ur	rer of each species. Use scitii % cover: 25 % cover: Estimated Overall Canopy Il have a separate underste %; 10%, 25%, 50%, 75% % cover: 20 % cover: Estimated Overall Cover of the channel, but outside cover. Use <1%; 10%, 2	Cover (percent)  3.  Cover (percent)  90%, 100%.  3. Tamarix (percent)  6  re/orchard; oal- channel its a mi	For percent cover, please u % cover: 60 te percent understory cover: ramosissima % cover: 0 x woodland) ix of residential, commercial	er of
List up to 5 species of <1%; 10%, 25%, 50%  1. Salix spp  4. Average height of overse of each species. Use scient. Baccharis salicifoth Salix spp  Average height of under Describe adjacent hab Great Basin sagebru light industrial.  List up to five categor  1. open wash	overstory vegetation 5, 75%, 90%, 100%. % cover: 75 % cover: story (m)(do not includent of the cover: 50 % cover: 50 % cover: 5 rstory (m)(do not includent of the cover: 50 rstory (m)(do not includent	2. Populus 5. le a range) getation (not al ent cover, plea 2. Salix ex 5. lide a range) tation; desert suderal and disturt, and estimate 2. ruderal	s Fremont  8 I sites will se use <1 xigua  2 scrub; ur arbed with	rer of each species. Use scitii % cover: 25 % cover: Estimated Overall Canopy Il have a separate underste %; 10%, 25%, 50%, 75% % cover: 20 % cover: Estimated Overall Cover of the channel, but outside cover. Use <1%; 10%, 25% % cover: 25	Cover (percent)  3.  Cover (percent)  90%, 100%.  3. Tamarix (percent)  6  re/orchard; oal- channel its a mi	For percent cover, please u % cover: 60 te percent understory cover: ramosissima % cover: 0 x woodland) ix of residential, commercial	er of
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#### Comments.

Habitats at the confluence of San Francisquito Wash and the Santa Clara River have been negatively affected by the drought. Many cottonwoods are dying on the north side of the channel. Recent rains, however, have flushed out recent dead growth from center of channel and the willows in that area have responded nicely.

						<u> </u>			
This form is intended to								recise	
measurements, and is o Fill in the following in				Date Report com		tional requireme 10/17/18	ents.		
	87, 97, and 104	· · · · · · · · · · · · · · · · · · ·	State:	CA	pieteu.	10/1//10	County: Los A	ngeleg	
Name of Reporting Ind			Affiliatio				County. LOS A	ingeles	
Phone # Z(626) 35		ileis	· · · · · · · · · · · · · · · · · · ·						
			·	brian.daniels@pso	mas.com	1			
USFWS Permit #	TE821401-5		State Per	rmit # SC-4535					
Site Coordinates:	Start: <b>E</b> 3516	516		N 3813380		<del></del>	UTM Zone: 11	9	
one coordinates.				N 3812029			<u> </u>		
USGS Quad Name(s):	Stop: E 3515  Newhall		I ength c	of area surveyed (in	bilomete	ers) 1.4	NAD: WGS8 Elevation: 1,03		
Name of nearest Creek,				Tatea surveyed (in	KHOIHCK	318) 1.4	Elevation. 1,03	13 II	
Ownership: BLM	Reclamation NPS			Tribal State Pr	ivate (	Other (Municipa	al/County)		
Was site surveyed in pr				If yes, what site na			an county)		
Did you survey the sam				Yes/No			comments below		
If "Yes", was the same				Yes) No			comments below		
- · · · · · · · · · · · · · · · · · · ·									
Native/Exotic: The spec		T 7 T	T	<del></del>		······································	=70.0		1
Native broadleaf plants				ative and exotic pla					
Exotic/introduced plant	s (>/5% exotic)		Mixed na	ative and exotic pla	nts (mos	tly exotic 51%	-75%)		
List up to 5 species of <1%; 10%, 25%, 50%			nopy cov	er of each species.	Use sci	entific names. I	For percent cove	er, please us	ie
1. Salix spp		T	fremontii	% cover:	40	3.		% cover:	
4.	% cover:	5.	11011101111	% cover:				/	
Average height of overs	story (m)(do not inclu-	de a range)		Estimated Overall	Canopy	Cover (percent)	)		
List up to 5 species of							te percent unde	rstory cover	of
each species. Use scien		T		······································				~ .	
1. Baccharis salicifol	·- · · · · · · · · · · · · · · · · · ·	2. Tamarix ran	nosissima	······		3. Salix ex	Kigua	% cover:	10
4. Average height of unde		5.	2	% cover:		·			
				Estimated Overall			70		
industrial to east, and	s open wash, tamarisk d agriculture to south.	scrub, and tama	arisk-mule	e fat scrub; outside	the chan	nel its open spac	ce to west, reside	ntial to nort	h,
List up to five categori	0/				_	T			
<ol> <li>tamarisk-mule fat</li> </ol>		2. open wash		% cover: 30	J	3. alluvial sag	ge scrub % cov	er: 20	
4.	70 CUVCI.	13.		/0 CUYCI.					
Was surface water or sa					(		circle one)		
Was surface water or sa	turated soil present at	or adjacent to a	Il patches	surveyed?		Yes No (c	circle one)		]
Comments. A mitigation site oc drought.	ccupies the core of the	his survey area	ı. It is no	longer actively n	naintain	ed and is suffe	ering from the r	egional	

Yellow Billed Cuckoo Survey Summary Form

Crosk, New, Verland, or Lake Name   Sile Counting   Sile Cou	Site Name: USGS Quad N	Name:	h see	(SULVEY	ndo)	County: Le	sAngel	cs		State Elevation	-0	3:0	44		
State   Company   State   Co	Creek, River,	Wetland, or	Lake Name	Pa	coma 1	wash			-						
was the feathways in previous just the reason was used.  Sourcy (1) Sourcy (2) Sourcy (3) Sourcy (4) Sourcy (4) Sourcy (5) Sourcy (6) Sourcy (7) Sourcy (7) Sourcy (8) Sourcy (8	Site 0	Coordinates:	Start:	E 37	0255	7	37976	.49	_	UTM Zone	11	. 5	= .		
Wall all servicys in in provincial years of the control of the con	2 10				10265	N	37967	93		Datum	420	653	14		
Date				NPS U	SFWS USFS	Tribal State	Private Othe	er (Mur	nicipal Count	) + federal	CAC	(30			
Sarry   Defect   December   Dec			1		1	coords are estado	SWYSE WELLSHIM	l alto I	The was used	same	T	T	I c		
First Initial   Total   Carceled.   CAM   V-visital B-bus   Orrostore (describe)   VICLY   Reported   Carceled.   CAM   V-visital B-bus   Orrostore (describe)   VICLY   Reported   Carceled.   CAM   V-visital B-bus   Carceled.   CAM   V-visital	Survey#	10/2/04/20	Total					Ве	Surve	vor Detection	D		2003	Cor	rected
First Initial Total  Amenical Controller (Controller)  Survey Deffett  All Controller (Controller)  Assure Defett		2555757 NASSES		1.7077377470	<ul> <li>(a) 100 100 100 100 100 100 100</li> </ul>	ELECTRONIC SOUNDS (1001)		havi			star	Bez	J 80000		
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Start	#4														
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Survey Period   Date: #5			Total:									-		_	
Diserver(s):  Start:  Total hrs:  Total hrs:  Total hrs:  Total yBCUs*  Notes (refer to Cuckoo # associated with individual detections)  VOCALIZATION  CODE  CON  No visual  NV  Catches Prey  Coo  COO  Sitting  ST  Carry Food  Carry Fo		2.5	A Van Diegon												
Observer(s): Stari:  Stop:  Total hrs:  To	Survey Period	Date:													
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Total hrs:  Total hrs:  Total hrs:  Total yBCUs*  Notes (refer to Cuckoo # associated with individual detections)  VOCALIZATION  CODE  BEHAVIOR  CODE  BEHAVIOR  CODE  BEHAVIOR  CODE  COO  COO  COO  Sitting  ST  Carry Food  Cross Feeds Mate  FM  Conck/Alarm  ALA  Foraging  FO  Eats Food  Eats Food  EF  Carry Nest Material  CN  Conck/Alarm  ALA  Foraging  FO  Eats Food  Eats Food  EF  Carry Nest Material  CN  Conck/Alarm  ALA  Foraging  FO  Eats Food  EF  Carry Nest Material  CN  Conck/Alarm  ALA  Foraging  FO  Eats Food  EF  Carry Nest Material  CN  Conck/Alarm  ALA  Foraging  FO  Eats Food  EF  Carry Nest Material  CN  Conck/Alarm  ALA  Foraging  FO  Eats Food  EF  Carry Nest Material  CN  Conck/Alarm  ALA  Foraging  FO  Eats Food  EF  Carry Nest Material  CN  Conck/Alarm  ALA  Foraging  FO  Eats Food  EF  Carry Nest Material  CN  Conck/Alarm  ALA  Brooding/Incubating  BI  Distraction Display  Distraction Display  DO  Vocal Exchange  VEX  Feeds Fledgling  FF	Observer(s):	Start:						-			VIII		2-7-0		
Total hrs:  Total hrs:  Total hrs:  Total yBCUs*  Notes (refer to Cuckoo # associated with individual detections)  VOCALIZATION  CODE  BEHAVIOR  CODE  BEHAVIOR  CODE  BEHAVIOR  CODE  COO  COO  COO  Sitting  ST  Carry Food  Cross Feeds Mate  FM  Conck/Alarm  ALA  Foraging  FO  Eats Food  Eats Food  EF  Carry Nest Material  CN  Conck/Alarm  ALA  Foraging  FO  Eats Food  Eats Food  EF  Carry Nest Material  CN  Conck/Alarm  ALA  Foraging  FO  Eats Food  EF  Carry Nest Material  CN  Conck/Alarm  ALA  Foraging  FO  Eats Food  EF  Carry Nest Material  CN  Conck/Alarm  ALA  Foraging  FO  Eats Food  EF  Carry Nest Material  CN  Conck/Alarm  ALA  Foraging  FO  Eats Food  EF  Carry Nest Material  CN  Conck/Alarm  ALA  Foraging  FO  Eats Food  EF  Carry Nest Material  CN  Conck/Alarm  ALA  Foraging  FO  Eats Food  EF  Carry Nest Material  CN  Conck/Alarm  ALA  Brooding/Incubating  BI  Distraction Display  Distraction Display  DO  Vocal Exchange  VEX  Feeds Fledgling  FF		Stop:													
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	in the same of the			THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN 2 IN COLUMN	- Company	NAME OF TAXABLE PARTY.			-						

Yellow Billed Cuckoo Survey Summary Form

27 (Survey Area 2) County: Los Areales

Site Name: USGS Quad N	Read	27 (	survey	Acres	2)	County:	Angele	5		State	CF	+			2.	
Creek, River,		ake Name	25500	Jan S	a. da	· Draw		-	-	Elevation	2	3 14				
Permitted to the state of the s	Coordinates:		E 280	1-29	- War	N	37407	05		UTM Zone	11	4				
			E 380689 N 3740705							Datum: W6584						
Ownership: BLM Reclamation NPS USFWS USFS Tribal State Private Other Municipal County LACITY COUNTY																
Was site surveyed in previous year? Tes No Unknown If yes, what site name was used?																
	Date					Voc. Type:	Playback #:		**************************************	THURS RECOUNTY			C			
Survey#	(m/d/y)	Total	Time		ct Type:	53/1000 CALHORSON VV 12.	Number of times	Bel	Survey	or Detection	Dia	222	u	Con	rected	
Observer(s)	Survey,	Number of	Detected	10000000	cidental layback	CO=coo	'Kowlp' call	Behavior code	Cod	ordinates	Distance	Bearing	c k	Coor	dinates	
(Last Name,	Time,	YBCUs	(AM):	AM): A=aural OT=other YBCU						0						
First Initial)	Total Hours	detected.		V≕visu	al B=both	OT≔other (describe)	YBCU responded	유	* 1700 4 F	11001431	B	1,000	o	1 mm 4 m		
	PRODUCE I								UTM E	UTM N			#	UTM E	UTM N	
Survey Portod #1													-			
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B. Daniels	Stop:															
	0900															
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Survey Period																
#2	7/6/18															
Observer(s):	Start:															
B. Daniels	0645															
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	2	Total:														
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23.36	0640															
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Survey Portoli #4	Date: 9/3/18															
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	3	0														
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		Harden Com														
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Total YBCUs*	And Add a	0	9.6													
Notes (refer	to													*Inc	clude	
Cuckoo # associated w	ith			- 11-											ation for	
individual					1100									th	ese	
detections)									10.00		-	- 11 TX		design	nations.	
VOCALIZATIO		CODE	BEHAVIOR		i ite is	CODE	BEHAVIOR		CODE	BREEDING			CODE			
Contact CON		No visual			NV	Catches Prey		CP	Copulation			COP				
Coo COO		Sitting			ST	Carry Food		CF	Feeds Mate			FM				
Knock/Alarm ALA					FO Eats Food			EF Carry Nest Material				CN				
Juvenile Calls JUVC Other Vocalization OV		Preening			PRE FLY	At Nest		AN	Brooding/Incub Feeds Nestling	ating		BI FN				
Other vocaliza	ation .	34	Flying	Dienlass		DD	Juvenile Vocal Exchange	a .	NEX JUA	Feeds Fledgling			FF			
NR = nest buil	ding NF - a	ctive nest wi	Distraction I		it NV = n	CONTRACTOR OF THE PARTY OF THE	Committee Committee or Committe	OF CHILD IN CO.	WATER CO.	est. US = used, in	MANAGEMENT OF THE PARTY OF THE	nost wi	OR OTHER DESIGNATION OF THE PERSON NAMED IN	green e	gashells	

Yellow Billed Cuckoo Survey Summary Form

Site Name: Reach 40 b (Survey Area 3) County: Los Angeles USGS Quad Name: 51 Monte																	
USGS Quad Name: El Monte Creek, River, Wetland, or Lake Name San Gabriel River										State: CA. Elevation: 255 Ft.							
Annual Control of the	Coordinates:	Start:	UTM Zone:														
		Stop:		247			37678		Datum:	WG	584						
Ownership: BLM Reclamation NPS USFWS USFS Tribal State Private Other (Municipal Count) 4 February (ACOL)																	
Was site surveyed in previous year? Yes No Unknown If yes, what site name was used? Same																	
137	Date	92001 SA 1 1 2		Date	ot Trmar	Voc. Type:	Playback #:		200		_		C	09257010	war words		
Survey # Observer(s)	(m/d/y)	Total Number of	Time Detect Type:		CN=Contact CO=coo	Number of times 'Kowlp' call	Behavior		r Detection	Distance (m)	Bearing	c	<ul> <li>12/5553201</li> </ul>	rected dinates			
(Last Name,	Survey, Time,	YBCUs	Detected		layback	AL=alarm	played before	NOI.	000	Coordinates S			k	Coor	umates		
First Initial)	Total	detected.	(AM):	700	=aural ial B=both	OT=other	YBCU	code			$\Xi$	0,5	0		_		
		Tribuit D-00		2 00	(describe)	responded		UTM E	UTM N			0 #	UTM E	UTM N			
Survey Period																	
#1	6/29/16																
Observer(s):	Start:																
B. Daniels	0600																
**	Stop: 0430																
	Total hrs:	Total:															
	3.5	0															
Survey Period	The second second second second	7															
#2	7/10/16																
Observer(s):	Start:														-		
B. Daniels	0600				l l										_		
The state of the s	Stop: 0450																
	Total hrs:	Total:															
	3.8	0															
Survey Period		2	: 0900	P	B	CON	5	VEX	405536	3767061							
#3	7/17/16																
Observer(s):	Start:														-		
3. Dariels	0600 Stop:																
DE- MIND	1000																
	Total hrs:	Total:															
	4.0																
Survey Period	Date:																
#4	8/1/18																
Observer(s):	Start:																
LMessett	Stop:				1							-					
,	0915																
	Total hrs:	Total:															
	3.3	0															
Survey Period #5	Date:														1 27 - 14		
Observer(s):	Start:																
7.00.00.00.00.00.00.00.00						-12-12-14-1	1										
	Stop:																
	Total hrs:	Total:													-		
Survey Summ	525 ( <del>2</del> 68)	# Det	#PO	- 1	#PR	#0	CO	#1	Vests found			ey Hour	s:				
Total YBCUs*  Notes (refer to											alu da						
Cuckoo#	100k													1 2 2 5 A	clude ation for		
associated with justification these																	
individual detections)		-												100	nations.		
VOCALIZATIO	-	CODE	BEHAVIOR	1 27		CODE	BEHAVIOR	W s	CODE	BREEDING	181 (8		CODE		1		
Contact CON		No visual			NV	Catches Prey		СР	Copulation			COP					
Coo COO		Sitting			ST Carry Food			CF Feeds Mate				FM					
Knock/Alarm ALA			Foraging		FO Eats Food		EF AN		Carry Nest Material			CN					
Juvenile Calls JUVC Other Vocalization OV		JUVC	Preening Flying		PRE At Nest FLY Juvenile		AN JUV					BI FN					
Other vocaliza	adon	OV .	Flying Distraction	Dienlass		DD	Juvenile Vocal Exchang	e	VEX	Feeds Nestling Feeds Fledgling			FF				
NO = post buil	ding NE -	etive peet w								est US = used in	CONTRACTOR OF	noct w	THE REAL PROPERTY.	green e	gashells		

Yellow Billed Cuckoo Survey Summary Form Site Name: Reaches 43a4 & Survey Area & Sounty: Los Angeles
USGS Quad Name: El Monte State: Elevation: Creek, River, Wetland, or Lake Name son babricl River 3764877 UTM Zone: Site Coordinates: Start: E 402547 Datum: W6584 N 3763435 Stop: E 401288 Private Other (Municipal/County Ownership: BLM Reclamation NPS USFWS USFS Tribal State W W Unknown If yes, what site name was used? Was site surveyed in previous year? C Date Voc. Type: Playback #: Detect Type: u (m/d/y) Surveyor Detection Corrected Survey# Total Number of times Behavior CN=Contact Time I=Incidental C Number of CO=coo 'Kowlp' call Coordinates Coordinates Observer(s) Survey, Detected P=Playback k played before AL=alarm **YBCUs** (Last Name. Time, A=aural (AM): B 0 OT=other YBCU First Initial) Total detected. V=visual B=both responded (describe) Hours UTM E UTM N UTM E UTM N Survey Period Date: 6/16/18 Observer(s): 0600 8. Dantels Stop: 1045 Total: Total hrs: 4.8 Survey Period Date: 7/9/18 Observer(s): Start: 0600 B.Daniels Stop: 1015 Total hrs: Total: 4.3 0 Survey Portod Date: 7/13/18 Observer(s): 0600 B. Daniel> Stop: 0335 Total hrs: Total: 3.6 0 Survey Period Date: 3/2/13 Observer(s): Start: Messett 0550 Stop: 000 Total hrs: Total: 0 4.2 Survey Period Date: #5 Observer(s): Start: Stop: Total hrs: Total: Survey Summary: # Det #PO #PR #CO #Nests found Total Survey Hours: Fotal YBCUs\* Notes (refer to \*Include Cuckoo# justification for associated with these individual designations. detections) CODE BREEDING CODE VOCALIZATION CODE BEHAVIOR CODE BEHAVIOR COP Contact CON No visual NV Catches Prey CP Copulation Carry Food CF Feeds Mate FM coo Sitting ST CN FO Eats Food EF Carry Nest Material Knock/Alarm ALA Foraging PRE At Nest AN Brooding/Incubating BI JUVC luvenile Calls Preening FN FLY **Feeds Nestling** Other Vocalization ov Flying JUV

Juvenile

NB = nest building, NE = active nest with unbroken eggs in it, NY = nest with young seen or heard in it, ON = occupied nest, US = used, inactive nest with blue-green eggshells.

DD

Distraction Display

Vocal Exchange

VEX

Feeds Fledgling

FF

Yellow Billed Cuckoo Survey Summary Form Site Name: Reules 71, 79, 30, 103 (Survey Ance S) County: Los Angeles Elevation: Creek, River, Wetland, or Lake Name USGS Quad Name: 1,160Pt. Santa Clara Ruet UTM Zone: Site Coordinates: N 3810312 Start: E 356440 Datum: W6 584 N 3810218 Stop: E 358431 Ownership: BLM Reclamation NPS USFWS USFS Tribal State Private Other Municipal County Sonta Clarita + County Yes No Unknown If yes, what site name was used? Was site surveyed in previous year? C Date Voc. Type: Playback #: Detect Type: u Surveyor Detection Corrected (m/d/y)Total Behavior Survey # CN=Contact Number of times Time c I=Incidental Number of CO=coo 'Kowlp' call Coordinates Coordinates Observer(s) Survey, Detected P=Playback k played before AL=alarm (Last Name, Time, **YBCUs** A=aural (AM): (m) 0 OT=other YBCU detected. First Initial) Total V=visual B=both (describe) responded Hours UTM E UTM N UTM E UTM N Survey Period Date: #1 6/20/18 Observer(s): Messet Stop: 1100 Total hrs: Total: 0 Survey Period Date: 7/5/18 Observer(s): Start: . Messett Stop: 055 Total hrs: Total: 4.6 0 Survey Portod Date: 7/27 (18 Observer(s): Messett Stop: 1120 Total hrs: Total: 5.6 0 Survey Period Date: 8/13/18 Observer(s): Start: 0600 Massett Stop: 1105 Total hrs: Total: 5 Survey Period Date: Observer(s): Start: Stop: Total hrs: Total: an Survey Summary: #PO #PR #CO #Nests found Total Survey Hours: # Det 20.2 Total YBCUs\* Notes (refer to \*Include Cuckoo# justification for associated with these individual designations. detections) CODE VOCALIZATION CODE BEHAVIOR CODE BEHAVIOR CODE BREEDING COP Catches Prey Contact CON No visual NV CP Copulation FM CF Feeds Mate ST Carry Food Coo coo Sitting EF CN FO Eats Food Carry Nest Material Knock/Alarm ALA Foraging

Other Vocalization OV Flying FLY Juvenile JUV Feeds Nestling FN

Distraction Display DD Vocal Exchange VEX Feeds Fledgling FF

NB = nest building, NE = active nest with unbroken eggs in it, NY = nest with young seen or heard in it, ON = occupied nest, US = used, inactive nest with blue-green eggshells.

At Nest

AN

PRE

JUVC

Preening

luvenile Calls

Brooding/Incubating

BI

Yellow Billed Cuckoo Survey Summary Form 5-82, 109 (Survey Aves 6) County: Los Angeles State: CA. Site Name: Read USGS Quad Name: Elevation: 1.095 ft. Creek, River, Wetland, or Lake Name Santa Clare River UTM Zone: 11 4 Site Coordinates: N 3810411 Start: E 356424 Datum: W6584 Stop: E 365044 N 3810550 BLM Reclamation NPS USFWS USFS Tribal State Private Other Municipal County Serta Claiste 4 County Ownership: Was site surveyed in previous year? Yes No Unknown If yes, what site name was used? C Date Voc. Type: Playback #: Detect Type: (m/d/y)Behavior Surveyor Detection Corrected Survey # Total CN=Contact Number of times Time I=Incidental C Observer(s) Survey, Number of CO=coo Coordinates Coordinates 'Kowlp' call Detected P=Playback k (Last Name, Time, **YBCUs** AL=alarm played before A=aural (AM): code 0 OT=other YBCU B First Initial) Total detected. V=visual B=both (describe) responded Hours UTM E UTM N UTM E UTM N Survey Period Date: #1 6/19/18 Observer(s): B. Daniels Stop: 100 Total hrs: Total: 45.3 D Survey Period Date: 7/3/18 Observer(s): Start: 0610 a Daniels Stop: 1100 Total hrs: Total: 4.8 0 Survey Period Date: 7/11/10 Observer(s): Start: 0610 B. Daviels Stop: 045 Total hrs: Total: 4.6 Survey Period Date: 7/7/18 Observer(s): 0605 nessett Stop: 1050 Total hrs: Total: 4.8 0 Survey Period Date: Observer(s): Start: Stop: Total hrs: Total: Survey Summary: #Nests found Total Survey Hours: #PO #CO # Det #PR Total YBCUs\* 0 Notes (refer to \*Include Cuckoo# justification for associated with these individual designations. detections) VOCALIZATION CODE BEHAVIOR CODE BEHAVIOR CODE BREEDING CODE CON No visual NV Catches Prey CP Copulation COP Coo coo Sitting ST Carry Food CF Feeds Mate FM

Contact EF Knock/Alarm ALA Foraging FO Eats Food Carry Nest Material CN Preening PRE luvenile Calls JUVC At Nest AN Brooding/Incubating BI ov FLY Feeds Nestling FN Other Vocalization Flying Juvenile JUV DD Vocal Exchange VEX Feeds Fledgling FF Distraction Display

NB = nest building, NE = active nest with unbroken eggs in it, NY = nest with young seen or heard in it, ON = occupied nest, US = used, inactive nest with blue-green eggshells.

Yellow Billed Cuckoo Survey Summary Form Reaches 37, 97, 104 (survey Ara 7) County: Los Angeles State: Creek, River, Wetland, or Lake Name Castaic Creek 3813380 UTM Zone: Site Coordinates: Start: E 351616 N 3812029 Datum: 406584 Stop: E 351570 Ownership: BLM Reclamation NPS Tribal State Private Other (Municipal County USFWS USFS Ye No Unknown Was site surveyed in previous year? If yes, what site name was used? C Date Playback #: Voc. Type: Detect Type: u Survey # (m/d/y)Total CN=Contact Number of times Surveyor Detection Corrected Time I=Incidental C Coordinates Coordinates Observer(s) Survey, Number of CO=coo 'Kowlp' call Detected P=Playback k (Last Name, Time, **YBCUs** AL=alarm played before A=aural (AM): 0 OT=other YBCU B First Initial) Total detected. V=visual B=both 0 (describe) responded Hours UTM E UTM N UTM E UTM N Survey Period Date: #1 Observer(s): J. Feersta Stop: Total hrs: Total: 0 Survey Period Date: 7/2/18 Observer(s): Start: 0615 Stop: 1045 Total hrs: Total: 4.5 0 Survey Period 7/24/18 Observer(s): 0600 Messel 1020 Total hrs: Total: Survey Portod Date: 3/9/13 Observer(s): 255 Stop: Total hrs: Total: 0 Survey Period Date: Start: Observer(s): Stop: Total hrs: Total: #CO #Nests found Total Survey Hours: #PO Survey Summary: # Det #PR Total YBCUs\* Notes (refer to \*Include Cuckoo# justification for associated with these individual designations. detections) VOCALIZATION CODE BEHAVIOR CODE BEHAVIOR CODE BREEDING CODE CON No visual NV Catches Prey CP Copulation COP Contact CF coo Sitting ST Carry Food Feeds Mate FM Coo FO EF CN Knock/Alarm ALA Foraging Eats Food Carry Nest Material Juvenile Calls JUVC Preening PRE At Nest AN Brooding/Incubating BI Feeds Nestling FN ov FLY JUV Other Vocalization Flying Juvenile Feeds Fledgling Vocal Exchange VEX Distraction Display DD FF

NB = nest building, NE = active nest with unbroken eggs in it, NY = nest with young seen or heard in it, ON = occupied nest, US = used, inactive nest with blue-green eggshells.

## ATTACHMENT G SURVEYOR CERTIFICATE STATEMENT

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

Brian E. Daniels (TE-821401-5)

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

Lindsay A. Messett, CWB®

(TE-067064-3)