# **APPENDIX D-1**

45-Day Summary Reports of Protocol Surveys for Least Bell's Vireo and Southwestern Willow Flycatcher



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August 30, 2010

Ms. Sandy Marquez Recovery Permit Coordinator Carlsbad Fish and Wildlife Office 6010 Hidden Valley Road, Suite 101 Carlsbad, California 92011

## RE: 45-Day Summary Report of Protocol Surveys for Least Bell's Vireo for the Campo Wind Energy Project

Dear Ms. Marquez:

This letter summarizes results of protocol surveys conducted during 2010 by AECOM to determine the presence or absence of the least Bell's vireo (*Vireo bellii pusillus*; LBV) within the proposed Campo Wind Energy Project area in San Diego County (Figure 1). Surveys were conducted on behalf of the Campo Band of Mission Indians (a California federally recognized Indian tribe), Muht-Hei, Inc. (a tribally chartered corporation wholly owned by the Campo Band of Mission Indians), the Bureau of Indian Affairs, and Invenergy Wind California, LLC.

#### **Project Description**

The Campo Band of Mission Indians, Muht-Hei, the Bureau of Indian Affairs, and Invenergy Wind California propose the construction and operation of a wind energy generation facility on the Campo Indian Reservation in southeastern San Diego County. This facility would be capable of generating up to 300 megawatts (MW) of electricity and would include wind turbines, substations, transmission facilities, operations and maintenance building, and access roads. The project is currently being designed, but generally, strings of 2.5-MW turbines are being considered for installation across ridgelines throughout the reservation that do not contain residences, including areas north and south of both Interstate 8 (I-8) and State Route 94. Each turbine would be set on a large concrete foundation. Turbines would be connected by underground electrical cables to one or two substations. Each substation would be sited on approximately 2 to 3 acres and would consist of a graveled, fenced area containing transformers and switching equipment and an area to park utility vehicles. In addition, a three-phase overhead transmission line would be constructed from each substation to connect the project to the existing transmission network. A temporary concrete batch plant would likely be necessary during construction. The biological survey area (BSA) identified for the proposed project is approximately 4,417 acres. This acreage encompasses the area within which all proposed project features would be located, with a 500-foot buffer around new proposed components (i.e. turbines, substations and transmission facilities) and a 100-foot buffer around existing features (i.e., existing roads) that are proposed to be used or modified.



#### **Site Description**

The Campo Indian Reservation includes lands both north and south of I-8 along the Tecate Divide, extending from the Manzanita Indian Reservation to the north and south to 0.25 mile north of the California/Mexico international border (Figure 1). The reservation is located between the communities of Old Campo and Jacumba, around the community of Live Oak Springs, and is bisected by Church Road (Figure 2). On-site elevation ranges from approximately 3,030 to 4,320 feet above mean sea level.

The BSA supports a variety of habitat types and vegetation communities but is dominated by chamise chaparral with both a monotypic phase and a mixed chaparral phase. Additional vegetation communities found throughout the site and especially along ridges and slopes include redshank chaparral, big sagebrush scrub, and Sonoran subshrub scrub. A series of north-south-running ridges is located throughout the proposed project site separated by shallow valleys consisting of coast live oak woodland, nonnative grassland, and southern willow scrub vegetation. Buckwheat scrub is interspersed throughout the chamise chaparral primarily in shallow valleys, along washes and roads, and along firebreaks. Various large rock outcrops are scattered throughout the site but are primarily located along the ridgelines.

#### **Background Information**

The LBV was listed as endangered by the U.S. Fish and Wildlife Service (USFWS) on May 2, 1986 (Federal Register 51[85]:16474–16481), with designated critical habitat (Federal Register 59[22]:4845–4867). This listing status applies to the entire population of LBV. A draft recovery plan was written by USFWS and circulated for review in 1998 (USFWS 1998). No critical habitat occurs within the BSA. The California Department of Fish and Game listed this subspecies as endangered on October 2, 1980.

Historically, this subspecies was a common summer visitor to riparian habitat throughout much of California. Currently, the LBV is found only in riparian woodlands in Southern California, with the majority of breeding pairs in San Diego, Santa Barbara, and Riverside counties. Substantial LBV populations are currently found on five rivers in San Diego County (the Tijuana, Sweetwater, San Diego, San Luis Rey, and Santa Margarita rivers), with smaller populations on other drainages. During 1996, a total of 1,423 territorial males was recorded within San Diego County (Unitt 2004). From 2001 through 2005, a total of 1,609 pairs was recorded in San Diego County, which accounts for approximately 54% of the total LBV population within California (USFWS 2006).

The LBV is migratory and arrives in San Diego County in late March through early April and leaves for its wintering grounds in September. The LBV primarily occupies riparian woodlands that include dense to moderately open cover within 3 to 7 feet of the ground and a dense, stratified canopy. The subspecies inhabits low, dense riparian growth along water or along dry parts of intermittent streams. The understory is typically dominated by species of willow (*Salix* sp.) and mulefat (*Baccharis salicifolia*). Overstory species typically include cottonwood (*Populus* sp.), western sycamore (*Platanus racemosa*), and mature willows. The



subspecies typically builds nests in vegetation 3 to 4 feet above the ground (Salata 1984) where moderately open midstory cover occurs with an overstory of willows, cottonwoods, sycamores, or coast live oaks (*Quercus agrifolia*). Nests are also often placed along internal or external edges of riparian thickets at an average of 3.3 feet above the ground (Unitt 2004). Riparian plant succession is an important factor in maintaining vireo habitat.

The LBV's decline is attributed to loss, degradation, and fragmentation of riparian habitat combined with brood and nest parasitism by the brown-headed cowbird (*Molothrus ater*, BHCO). LBVs are known to be sensitive to many forms of disturbance, including noise, night-lighting, and consistent human presence. Due to concerted programs focused on preserving, enhancing, and creating suitable nesting habitat, the LBV population has steadily increased in size along several of its breeding drainages in Southern California. Significant increases in breeding populations have occurred along the Santa Ana River at Prado Basin and on the Santa Margarita River on Marine Corps Base Camp Pendleton, as well as at several other sites throughout the region.

#### Survey Methodology

Prior to the initiation of surveys, regional databases were searched to determine the closest known occurrences of LBV in the vicinity of the BSA. A search of the California Natural Diversity Database (CDFG 2010) and the eBird database (eBird 2010) resulted in two documented LBV locations in 1991 and 1992, ranging from approximately 8.15 to 8.2 miles (possibly representing the same individual or pair) to the northwest of the BSA in Cottonwood Creek.

A habitat assessment focusing on suitable LBV habitats within and adjacent to the BSA was completed by qualified AECOM biologists James McMorran and Erin Riley on April 17 and April 22, 2010. Contiguous riparian areas either within the BSA or within the immediate vicinity of the BSA were assessed. Areas mapped as suitable LBV habitat included all riparian willow forest and riparian willow scrub associations, and upland and wetland habitats adjacent to areas of scrub. Riparian areas adjacent to the BSA with optimal LBV habitat were considered when they were contiguous with suitable habitat in the BSA because of the nature of the forthcoming risk assessment for the proposed wind farm project. This approach ensures maximum potential for detectability of LBVs migrating through or breeding in the vicinity of the project but outside of the footprint. Four areas within or adjacent to the BSA were found to have habitat suitable to support LBV, and an overview of these areas is depicted in Figure 3. Three of the four LBV Survey Areas are located in the southern half of the BSA (LBV Survey Areas 2, 3, and 4), and the remaining survey area (LBV Survey Area 6) is located in the northern half (Figure 3). The LBV Survey Area numbering system (2, 3, 4, and 6) is consistent with an ongoing Bird Area Search study that shares several of the areas surveyed for LBV. Approximately 6.24 acres of suitable LBV habitat occur within the BSA, and approximately 21.11 acres occur outside of the BSA (contiguous with LBV habitat within the BSA), providing a combined total of approximately 27.35 acres of surveyed suitable LBV habitat (Figures 4a, 4b, 4c, and 4d).



LBV surveys followed the current USFWS survey protocol for the subspecies (USFWS 2001). The surveys consisted of walking through potential LBV habitat. Qualified AECOM biologists conducted passive surveillance (i.e., listening and looking for the species) in all four areas mapped as suitable habitat to support LBV. Per the current USFWS protocol, suitable habitat within the BSA was surveyed eight times, at least 10 days apart, during the 2010 breeding season. Surveys were completed between dawn and 11 a.m. In addition to any LBV observations/detections, all avian species detected were recorded on field datasheets, and BHCOs were mapped upon their initial sighting in a survey area.

#### Results

Protocol-level LBV surveys were conducted between April 23 and July 16, 2010, within the BSA and adjacent areas of suitable LBV habitat (Table 1). A summary of survey data is presented in Table 1, including date of survey, survey number, time, weather conditions, field biologists, and LBV observations. Field notes are presented in Appendix A.

Date	Survey Period	Surveyors	Time	Weather Conditions	LBV Observed
04/23/10	1	James McMorran	0525–1008	Start: 34°F, wind 0–2 mph, 0% cover End: 62°F, wind 1–2 mph, 0% cover	None
05/07/10	2	James McMorran	0621–1100	Start: 56°F, wind 1–2 mph, 0% cover End: 75°F, wind 2–7 mph, 0% cover	None
05/17/10	3	Andrew Fisher	0634–1016	Start: 50°F, wind 0–2mph, 100% cover End: 67°F, wind 1–3 mph, 100% cover	None
05/27/10	4	Andrew Fisher Erin Riley	0520–1106	Start: 44°F, wind 0–1 mph, 30% cover End: 62°F, wind 2–6 mph, 5% cover	None
06/10/10	5	James McMorran Erin Riley	0504–1102	Start: 56°F, wind 0–4 mph, 0% cover End: 74°F, wind 5–16 mph, 0% cover	None
06/21/10	6	Erik LaCoste	0515–1035	Start: 48°F, wind 0–2 mph, 0% cover End: 80°F, wind 2–5 mph, 0% cover	None
07/06/10	7	James McMorran Doug Willick	0517–1003	Start: 48°F, wind 0–3 mph, 0% cover End: 76°F, wind 0–2 mph, 0% cover	None
07/16/10	8	Brennan Mulrooney Erin Riley	0522–1003	Start: 71°F, wind 0 mph, 0% cover End: 90°F, wind 0–3 mph, 0% cover	None

# Table 1Least Bell's Vireo Protocol SurveysDates, Personnel, Weather Conditions, and Results

No LBVs were detected within the survey areas during spring 2010. BHCOs were detected at two survey locations adjacent to the BSA (Figures 4b and 4c), with a maximum number of five individuals observed on two occasions (in April and June). A summary of the BHCOs detected is provided in Table 2.



Survey Period	Survey Date	Number of BHCO Individuals Detected
1	04/23/10	5
2	05/07/10	1
3	05/17/10	1
4	05/27/10	1
5	06/10/10	5
6	06/21/10	0
7	07/06/10	2
8	07/16/10	0

#### Table 2 Summary of Brown-Headed Cowbird Observations by Survey Period

#### Discussion

Protocol-level surveys for LBV did not yield any sign of this subspecies within the BSA or adjacent suitable habitat on the reservation during spring migration or the nesting period. The closest LBV individual/pair is approximately 8 miles northwest of the BSA, and the next closest is approximately 10 miles west of the BSA (CNDDB 2010).

If you have any questions or comments regarding this report, please contact me at (619) 233-1454.

Sincerely,

MMoman

James McMorran Wildlife Biologist james.mcmorran@aecom.com

Attachments: Figure 1 – Regional Map Figure 2 – Vicinity Map Figure 3 – Least Bell's Vireo Survey Area Overview Figure 4a – Least Bell's Vireo Survey Area 2 Results Figure 4b – Least Bell's Vireo Survey Area 3 Results Figure 4c – Least Bell's Vireo Survey Area 4 Results Figure 4d – Least Bell's Vireo Survey Area 6 Results Appendix A – Field Data Sheets



#### **Certification**

Qualified biologists who conducted LBV surveys for the Campo Wind Energy Site certify that the information in this survey report fully and accurately represents the work performed by AECOM biologists. Signatures of current AECOM biologists as listed in Table 1 who conducted protocol-level surveys (April 23 through July 16, 2010) are included below. The results of protocol-level surveys for listed species are typically considered valid for 1 year by the resource agencies.

(for Other

Andrew Fisher Wildlife Biologist

K. Willer

Doug Willick Wildlife Biologist

Erik LaCoste Wildlife Biologist

Fin Riley

Erin Riley Wildlife Biologist

Brehnan Mulrooney Wildlife Biologist



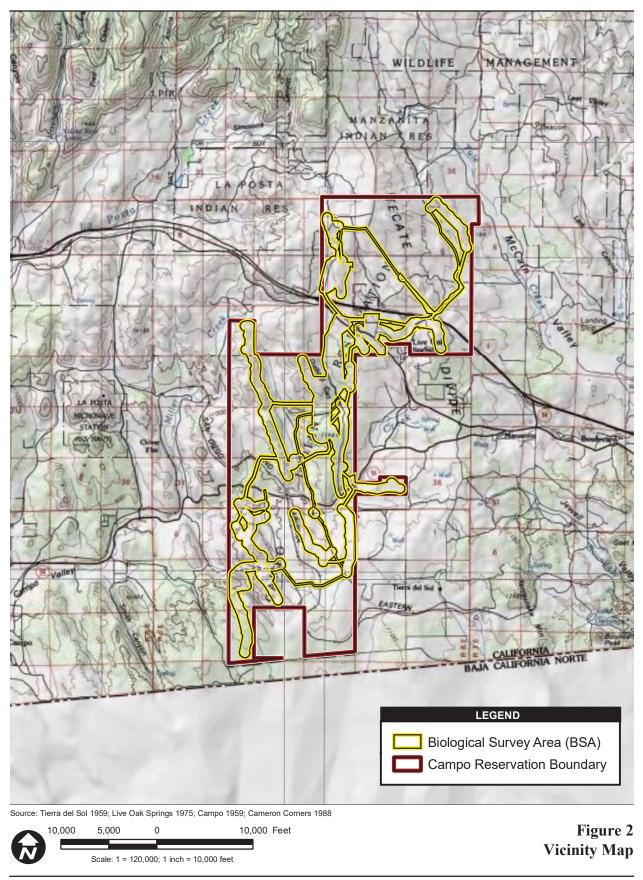
#### Literature Cited

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- U.S. Fish and Wildlife Service (USFWS). 2006. Least Bell's Vireo (*Vireo bellii pusillus*) 5year Review Summary and Evaluation. Carlsbad Fish and Wildlife Office, Carlsbad, California. September.

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**FIGURES** 







Source: DigitalGlobe 2008; Invenergy 2010; AECOM 2010

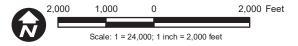


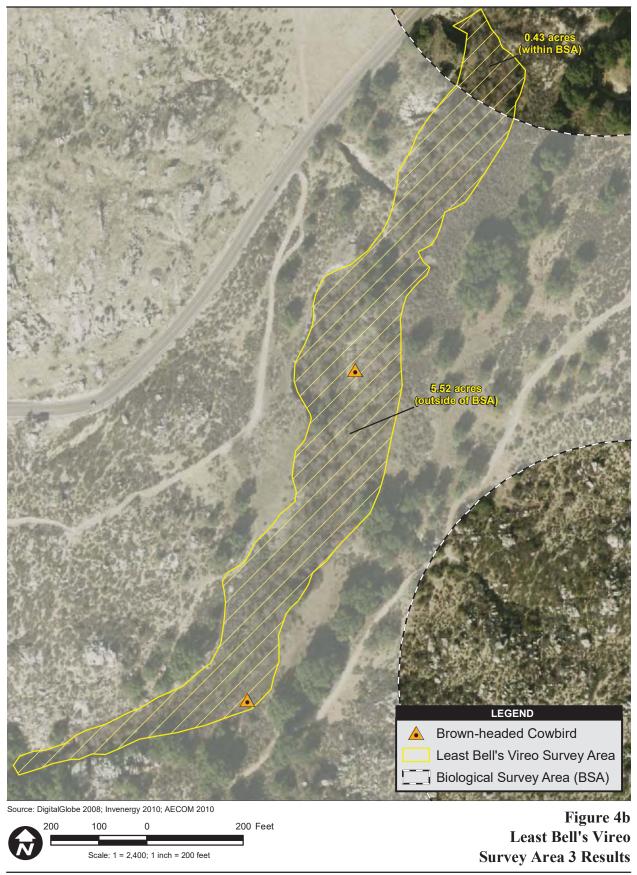
Figure 3 Least Bell's Vireo Survey Areas Overview

#### Campo Wind Energy Project Least Bell's Vireo 45-Day Report

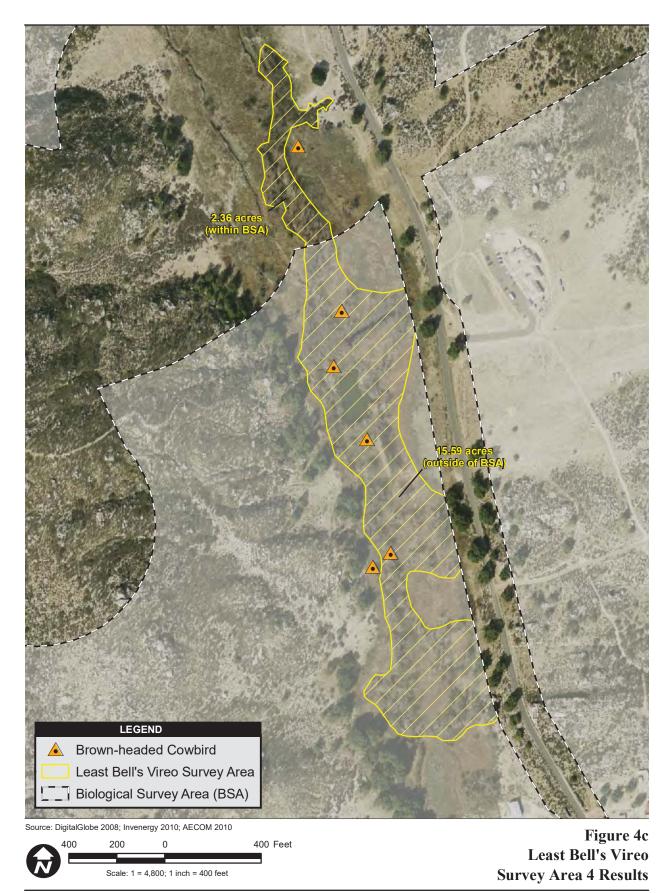
Path: P:\2009\09080183\_Campo\_wind\6.0 GIS\6.3 Layout\BIO\AVIAN\LBV\_45DayReport\_Aug2010\Fig3\_LBV\_SurveyAreas\_Overview.mxd, 08/20/10, johnsonaa



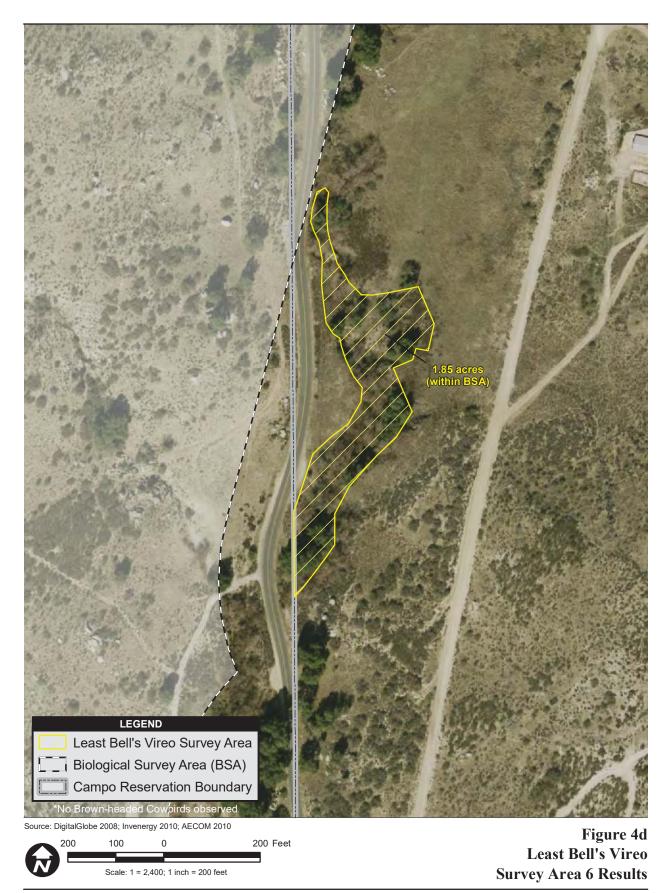
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## **APPENDIX A**

## FIELD DATA SHEETS

BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey #	STATION:BASC
DATE: 4/23/10 OBSERVER: TMC	START TIME: 0525 END TIME:	<u>0555</u> GPS <u>5</u>	
WEATHER: VISIBILITY (CIRCLE ONE: 1=START; 2=E	ND) GOOD FAIR ROOP CLOUD COVER (	%) <u>OKI 6%</u>	TEMP (°F) <u>34° / 36°</u>
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END)	N NE E SE S SW 12 NW n/a SPEED (MPH	) Low: <u>0 /0</u> Higi	n:1.3   Ave:0910.8
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)			

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
1			SPTO			Ζ			N		
2			HOWR			z	-		N		
3	-		CAUT						N		·
4			AMER			]			N		
5			WEST	, ·					N		
6			LORA			1			N		
7	-		LONE						14.		i <sub>a a de</sub> nterio e a constante de la constante de
8											· · · · · · · · · · · · · · · · · · ·
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14									<u> </u>		
15											
16											
17											
18							•				
19						<u> </u>				<u> </u>	
20											
									. 		

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #: \_\_\_\_\_

BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	
DATE: 4/23/10 OBSERVER: 5M	START TIME: 0621 END TIME:	0651_gps <u>SM14</u> page <u>1</u> of <u>1</u>
WEATHER: VISIBILITY (CIRCLE ONE; 1=STA	RT; 2=END) GOOD FAIR POOR CLOUD COVER (%	6) <u>0%/ 0%</u> TEMP (°F) <u>38,7/37,6</u>
	≅=END) N NE E SE S SW 🖉 NW n/a SPEED (MPH)	
PRECIPITATION: (CIRCLE ONE; 1=START; 2=E	END None light rain rain light snow snow sleet h	ail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
1			SPTO			-	-				MULTIPLE MANUAUALS
2			CATH								
3			HOWR								MULTIPLE INDUALS
4			NOFL								
5			OATI					······································			
6			ACNO								
7			WEST								
8			CORA								
9			LEGO								· · ·
10			AMCR								/
11			BHCO							*	
12			WIWA	·							
-13			EUST								
14			WBNU								
15			CAQU				, ,			V	/
16			SOSP					······			/
17			BTVW							•	
18									· · ·		
19											
20											

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #: \_\_\_

BIRD AREA SEARCH DATASHEET		Survey #/	STATION: <u>BAS4</u>
DATE: 4/23 10 OBSERVER:	START TIME: 0715 END TIME:	0745 GPS5	MIY PAGE LOF 2
WEATHER: VISIBILITY (CIRCLE ONE; 1=STA	RT; 2=END) OD FAIR POOR CLOUD COVER (9	1) <u>0%1 0%</u>	TEMP (°F) 45.2 45.4
WIND DIRECTION: (CIRCLE ONE; 1=START; 2	2=END) N NE E SE S SW NW n/a SPEED (MPH)	) Low: <u>0/0</u> Hig	h: <u>1,574,0</u> Ave: 0 12.0
PRECIPITATION: (CIRCLE ONE; 1=START; 2=1	END) Nong light rain rain light snow snow sleet	hail other	

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
			BUOR.	м	AD	2					8
2		-2	BUOR	F	AD	R					
3			RWBL			40					
4		10 International	ACWO			5		5			
5			LEGO			12					······································
6			EUST			15					10.00 <u> </u>
7	100		MODO			5					
8			YWAR	<u> </u>		7					
9			BHGR			3					
0			WAVI			6					
1						4					· · · · · · · · · · · · · · · · · · ·
2			BHCO			7					
3		~	WIWA			2					
4			COVE			~					
5			CORA							4	
6	· · ·		HOWR			2 5					
7			NAWA								
8			Sosp			/					
9			SPTO								
0			LAZB			8					
			NUWO			1					۵.

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling <sup>1</sup> Special Status species and all raptors

Comments per observation #: \_\_\_\_\_\_ATA\_\_ON\_\_\_\_\_RACK

e <u> </u>	2_of_2_	Date:	123/10	Obser	ver: _	<u>Jn</u>		_ Survey	#:	<b>A</b> Databuran	Station #: $345-4$
Dbs No.	Time	GPS Code	Species	Sex	Age*	# inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
21			ATTEL			-					· · ·
22			LAGO			5					
23											
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25											
26				1							
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32									_		
33											
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35							 	:			
36											· · · · · · · · · · · · · · · · · · ·

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Acti	vity Codes		Habitats			Sei	nsitive Species Codes		
PE	Perched	CCH	Chamise Chaparral	BE	Bald eagle	CO	Cooper's hawk	SA	Sharp-shinned hawk
so	Soaring	RSC	Red Shank	BL	Bank swallow	FH	Feruginous hawk	SW	Short-eared owl
FL	Flapping	1.00	Chaparral	BS	Belding's Savannah	GS	Grasshopper sparrow	WF	Southwestern willow
CS	Circle	BSS	Big Sagebrush		sparrow	GV	Gray vireo		flycatcher
00	Soaring	500	Scrub	SG	Bell's sage sparrow	GE	Golden eagle	SU	Summer tanager
HU	Hunting/	SSS	Upper Sonoran	CB	Brown headed cowbird	LG	Lawrence's goldfinch	SH	Swainson's hawk
110	Foraging	000	Subshrub Scrub	BW	Burrowing owl	BV	Least Bell's vireo	TB	Tricolored blackbird
от	Other	SOCH	Scrub Oak Chaparral	CC	California condor	LH	Loggerhead shrike	VF	Vermilion flycatcher
01	Other	CLOW	Coast Live Oak	LĂ	California horned lark	LO	Long-eared owl	WK	White-tailed kite
		CLOW	Woodland	RP	California rufous-	ME	Merlin	YB	Western yellow-billed
		SWS	Southern Willow	1.0	crowned sparrow	NH	Northern harrier		cuckoo
		3443	Scrub	CW	Coastal cactus wren	PF	Peregrine falcon	YW	Yellow warbler
		NNG	Nonnative Grassland	CG	Coastal California gnatcatcher	FA PU	Prairie falcon Purple martin	YC	Yellow-breasted chat

Comments per observation #: \_\_\_\_\_

BIRD AREA SEARCH DATASHEET		Survey #/ STATION: BAS-2
DATE: 4/23/10 OBSERVER: TMC,	START TIME: CESO END TIME	0920 GPS.SMIN PAGE 1 OF
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=E		
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END)	N NE E SE S SW W XX n/a SPEED (MPI	H) Low: <u>ク 12.2</u> -High: <u>マスルス</u> Ave: <u>のぞ1 1.0</u>
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)	one_light rain rain light snow snow sleet	hail other

	Co.	8-0 RA WR			12				4	1
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	BE	191			6				J	/
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		Ac So BT To Wr Hi	VRWA ACWO SOSP BTYW TOWA WANI HUVI	Acwo Sosp BTYW TOWA WAVI HUVI	Acwo Sosp BTYW TOWM WAVI HUVI	Acwo 3 503P 5 BTYW 1 TOWA 4 WAVI 1 HUVI 1	Acwo 3 505P 5 BTYW 1 TOWA 4 WAVI 1 HOVI 1	Acwo 3 503P 5 RTYW 1 TOWA 4 WAVI 1 HUVI 1 HUVI 1	Acwo     3       SOSP     5       RTYW     1       TOWA     4       WAVI     1       HOVI     1	Acwo     3       SosP     5       BTYW     1       TOWA     4       WAVI     1       Hovi     1

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

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<sup>1</sup> Special Status species and all raptors

Comments per observation #: \_\_\_\_\_

BIRD AREA SEARCH DATASHEET			
DATE: 3/7/10 OBSERVER: 1		52 GPS SM14	PAGE OF
WEATHER: VISIBILITY (CIRCLE ONE; 1=STA	RT; 2=END) GOOD FAIR POOR CLOUD COVER (%)		(°F) <u>68,31 73.</u> 8
WIND DIRECTION: (CIRCLE ONE; 1=START; 2	END) NOTE SESSW W NW N/a SPEED (MPH) LOW	r.1.1.1.0High:6.7	5.3 Ave 2.51 2.2
PRECIPITATION: (CIRCLE ONE; 1=START; 2=	END) None light rain rain light snow snow sleet hail	other	

Obs No.	Time	GPS Code	Species	Sex	Age*	# inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
1			HOWR						N		
2			OATT								
3			YWAR								
4			ACWO				• • • • • • • • • • • • • • • • • • •				
5			WEST	-		· 🏘					
6			SPTO			¥.					
7		· · · · · · · · · · · · · · · · · · ·	Bitco								
8			YWAR								
9			JUSAC								
10											
11			LECO BMGR								
12								· · · · · · · · · · · · · · · · · · ·			
13			WIWA								
14			Cove				· · · · · · · · · · · · · · · · · · ·				·····
15			NUWO								
16			NOFL	~			1				
17	0836	JAWIFLOI	WIFL	U	AÐ		PE, HU	RIP	N		None
18			LAZB						'N		
19			DEJU						N		
			A. C.								
20											

<sup>a</sup> check if Auditory only \* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #: #16- WIFL WAS SEEN BRIEFLY PERCHES + FLYCARCHANG
IN UNAFRSTORY OF WILLOW ILLOUKED NOWN FOR A SECOND + FROM
THEN COULD NOT PEROLATE THE WIFL-

BIRD AREA, SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey #	Z STATION: 2
DATE: 5/7/10 OBSERVER: TML	START TIME: 09/7 END TIME:	093 7GPS-	SM14 PAGE _ OF 1
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=EN	D) 2000 FAIR POOR CLOUD COVER (%)	010	TEMP (°F) 72.1 1 72.6
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END)			
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)	ight rain rain light snow snow sleet ha	il other	

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity <sup>1,2,3</sup>	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
1			1/				PE SO FL		N		
			HOFI				CS HU OT		N	-	
2		1000					PE SO FL				
			WANI				CS HU OT			<u> </u>	
3			11				PE : SO : FL CS : HU : OT				
			HOWR		<u> </u>		PE SO FL				
4			OCWA			1	CS HU OT	5			1
5			OCWA			0 - 42.00	PE SO FL			$\square$	· · · · · · · · · · · · · · · · · · ·
1			GTGR				CS HU OT				
6	***		0,014		<u>.</u>	<u> </u>	PE SO FL				
			LEGO				CS HU OT				gr Dom
7			Mar But Smith Mar				PE SO FL				
			MODO				CS HU OT				
8			1.		Γ		PE SO FL		and the second se		
			Sasp				CS HU OT	3 0			
9							PE SO FL				
			OATT				CS HU OT				
10			P . 1			<u>10</u>	PE SO FL				244
			Bust		ļ		CS HU OT				
11							PE SO FL CS HU OT		A		
12			WBNU			. 21 - le	PE SO FL	2	M	-	
ΠZ	19212	JMRSHA0	RSHA	U	U		CS : HU : OT			V	Ask Rite Bloom
13	0100	Parlesino I	1	-			PE SO FL			-	
10							CS HU OT				
14						3	PE SO FL				
							CS HU OT				
15			·••				PE SO FL				
							CS HU OT				
16					1		PE SO FL				12.00 · · · · · · · · · · · · · · · · · ·
							CS HU OT		8		
17						6	PE SO FL				×
		ļ					CS HU OT PE SO FL		<u> </u>		
18							PE SO FL CS HU OT				
19	6						PE SO FL			1	
19							CS HU OT				
20							PE   SO   FL	-		+	
							CS   HU   OT				10 A

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

x

Comments per observation #: \_\_\_\_

A REPORT OF A REPO	CAMPO WIND ENERGY PROJECT	
DATE: 5/7/10 OBSERVER: JMC	START TIME: 0952 END TIME:	1022 GPS5414 PAGE / OF /
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=EN		
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END)	N DE E SE S SW W NW n/a SPEED (MPH)	Low: 1.3.154 High: 6.49.6 Ave: 2.31 6.6
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)	ight rain rain light snow snow sleet h	nail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity <sup>1,2,3</sup>	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
1			RWBL				PE SO FL CS HU OT		N		
2							PE' SO FL		/~		
	10		HOWR				CS HU OT	14 1			
3							PE SO FL				
			WEKI				CS HU OT				a a
4							PE SO FL				· · · · · · · · · · · · · · · · · · ·
			Modo			<u> </u>	CS HU OT				
5			BUOW				PE SO FL CS HU OT				
6			BUOW				PE SO FL			-	
۲I			CLSW				CS HU OT				
7			,				PE SO FL				
			YWAR				CS HU OT				
8			1.6				PE SO FL				
			NOFL			5	CS HU OT				and the second state of th
9			1989 5				PE SO FL				
			CALT		<u> </u>		CS HU OT				
10			SPTO				PE SO FL CS HU OT				
11			<u> </u>				PE   SO   FL			<u> </u>	
11			BHOR				CS HU OT				
12						1	PE SO FL				
			BIPH				CS HU OT				1
13			A STATE POINT AND A STATE OF A ST				PE SO FL				
			COVE		•		CS HU OT			$\mathbf{V}$	/
14				-			PE SO FL		-		2)
			EUST				CS HU OT		-		
15		45 (A	1260				PE SO FL CS HU OT				14
16			1000		<u> </u>		PE SO FL	94. 	500		
			ATTEL				CS HU OT		SANUSCIO	1	
17							PE SO FL				/
			WEST				CS HU OT		A	V	
18			- Wyo and				PE SO FL	2			
							CS HU OT	50 20			
19							PE SO FL	×		1	
							CS HU OT			1	
20					<		PE SO FL	8			1003.1 F
						4	CS HU OT				

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

Comments per observation #: \_\_\_\_

BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey # STATION:
DATE: 517110 OBSERVER: TMC	START TIME: 030_ END TIME:	1100 gps <u>Sm14</u> page 1 of 1
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=EN		6) <u>0 / 0</u> TEMP (°F) <u>755/758</u>
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END)	N NO E SE S SW W NW n/a SPEED (MPH)	Low: 0.711.6High. 4.11 6. Ave: 1.31 2.2
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)	one) light rain rain light snow snow sleet I	nail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Дa	Breeding Status/Behavioral Notes
1			LEGO						N		
2			0471								
3		······································	WAVI								
4			ANHU							v	
5			LAZB								
6			HOWR						·····		
7			WIWA								
8		, <u>, , , , , , , , , , , , , , , , , , </u>	HOFI								
91			WEBL								
10		· · · ·	NOFL								
11			SPTO	-							
12			Sosp								
13			ATFL								
14			MODO						K		
15											
16	· · · · ·										
17											
18											
19											
20											

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

#### Comments per observation #:

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$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	BIRD AREA S	EARCH DATASH	EET	(			D ENERGY PR	OJECT		Sun	/ey #_3	STATION: 6
WEATHER: VISIBILITY (ORDEONE 1=START; 2=END) GOOD FAIR (FOOD) CLOUD COVER (%) 100 / 100 TEMP (*) $563550.9$ WIND DIRECTION: (CIRCLE ONE 1=START; 2=END) N NE E SE S SVC WINN via SPEED (MPH) Low: $1 P 1.8 \text{ Ave: } 1.26$ PRECIPITATION: (CIRCLE ONE 1=START; 2=END) Wind that rain tight snow snow sleet hall other $VXday 1.2$ VXday 1.2 VXday 1.2 VXd	DATE: <u>5-1;</u>	2-10 OBSERVE	R: <u>A+-1</u>	s		_ STA	RT TIME: <u>OU</u>	<u>34</u> END	TIME:	0704	_ GPS_4_	PAGE / OF 2
PRECIPITATION: (CIRCLE ONE: 1-START; 2-END WW WITH TAIN TAIN fight show show sheet hell other $\underline{VCLY}_12$ $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	WEATHER: V	ISIBILITY (CIRCLE	ONE; 1=START;	2=END)	GO	DD FA	IR POOR	CLOUD CO	VER (%	00100	/// TEM	» (°F) 58.7,50.9
PRECIPITATION: (CIRCLE ONE: 1-START; 2-END WW WITH TAIN TAIN fight show show sheet hell other $\underline{VCLY}_12$ $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	WIND DIRECT	ION: (CIRCLE ONE;	1=START; 2=EN	D) N	NE E	E SE S	SWERNW	n/a SPEEI	D (MPH)	Low:	1 0 High: 1.2	1.8 Ave: \$ 10.6
No.       IPNE       GPS Code       Specks       Sex       Age       Inds.       (182, ds.)       Hebbat       Nor.       A       Breeding Status/Belin/Arabits         1       0634 $BCSP$ N.       N       I       I       I       Raptor       I       I       Raptor       I       I       Raptor       I       <	PRECIPITATIO	DN: (CIRCLE ONE; 1	START: 2=END	AGA	Rlig	ht rain	rain light sno	ow snow s	sleet h	ail other	Fold	y 12
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		GPS Code	Species	Sex	Age*		and the second sec	Habitat	Non-	Aª	Breeding Status/B	ehavioral Notes
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			BCSP	n	h	1	PE/COLL:	ah/Rig	1	Y		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			WSJA		1	1			1	V		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			CALT			])				Var -		
			RHGN	/		1				Y		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $			HN HU			1				Y	· ·	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	_		LEGO			1				V		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	0656		TATE		Π	R				V		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	8 1		unno			1				$\overline{\mathbf{V}}$		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	9			1		1						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10					2				$\overline{\mathbf{v}}$		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	11	in i	NOFL			1						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	12					)				V		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	13 0639			m	A	2						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	14		SPTO	1	IA.	1						
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	15					2						
17     0246     NWO n n 1       18     0648     07475 n n 1       19     0652     Hoon n 1	16				_	1			+		· <u> </u>	
<sup>18</sup> 0648 01275 n n ) <sup>19</sup> 0652 Hoon U U I	47					- <u>'</u>					<u> </u>	
19 0652 Hoon U U I			12			)						
20	19 0652				$\rightarrow$	1					···· . ····	
	20 L		Busit	n		$\frac{1}{\nu}$			$\left\lfloor \right\rfloor$			

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #: \_

Page 2 of 2 Date: 5-17-10 Observer: AFI Survey #: \_

3

\_\_\_\_\_ Station #: \_\_\_\_\_

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
21	0635		SPTO	W	VL	1	PE/CALLS	Kip.	m	$\mathbf{V}_{\mathbf{r}}$	
22			BENN	h	n	)				V	/
23	7		WSJA		W	2				L	
	<i>K</i> 158		BHGn LEGo	h	h	)				V	/
25	0659		1660	k	k	)					
26			HOFI	h	И	N					
27	L		OPTZ	h	$\mathcal{U}$	3					
28	OF 03		ABF-U	N	n	)					
29											
30											
31											
32											
33											
34											
35											
36											

<sup>a</sup> check if Auditory only

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Acti	vity Codes		Habitats			Sei	nsitive Species Codes		
PE	Perched	CCH	Chamise Chaparral	BE	Bald eagle	CO	Cooper's hawk	SA	Sharp-shinned hawk
so	Soaring	RSC	Red Shank	BL	Bank swallow	FH	Feruginous hawk	SW	Short-eared owl
FL	Flapping		Chaparral	BS	Belding's Savannah	GS	Grasshopper sparrow	WF	Southwestern willow
CS	Circle	BSS	Big Sagebrush		sparrow	GV	Gray vireo		flycatcher
	Soaring		Scrub	SG	Bell's sage sparrow	GE	Golden eagle	SU	Summer tanager
нU	Hunting/	SSS	Upper Sonoran	CB	Brown headed cowbird	LG	Lawrence's goldfinch	SH	Swainson's hawk
	Foraging		Subshrub Scrub	BW	Burrowing owl	BV	Least Bell's vireo	TB	Tricolored blackbird
от	Other	SOCH	Scrub Oak Chaparral	CC	California condor	LH	Loggerhead shrike	VF	Vermilion flycatcher
• •	•	CLOW	Coast Live Oak	LA	California horned lark	LO	Long-eared owl	WK	White-tailed kite
			Woodland	RP	California rufous-	ME	Merlin	YB	Western yellow-billed
		SWS	Southern Willow		crowned sparrow	NH	Northern harrier		cuckoo
			Scrub	CW	Coastal cactus wren	PF	Peregrine falcon	YW	Yellow warbler
		NNG	Nonnative Grassland	CG	Coastal California	FA	Prairie falcon	YC	Yellow-breasted chat
					gnatcatcher	PU	Purple martin		

Comments per observation #: \_

BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey # <u>_</u>	STATION: 4
DATE: 5-17-10 OBSERVER: AFT	5 START TIME: 0731 END TIME:	0801 GPS 4	PAGE / OF 2
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2	END GOOD FAIR ROOR, CLOUD COVER (%	6) 100 / (10 TEMP	(°F) <u>55.61 55.5</u>
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END	)NNEESESSWCWD NW n/a SPEED (МРН)	Low: 010 High: /. 21	1.6 Ave: 0 1 0.8
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)	Not light rain rain light snow snow sleet h	nail other FOSS	12 aprilato

Ob: No	s Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
1	0231		NUWO	N	W	1	PELSING	SHE	NR	V	
2			CAQU		N	1	. ,	1		$\mathbf{i}$	/
3			SOSP		n	1				r	
4		AFYWM	YEANA	m	A	-1					
5			RWBB	m	A	3					
6			Acuro	N	N	3					
7			Amco		)	1					
8			CONE			2					
9			CLSW	5	4	1					
10	0740		RWBB	F	N	3	25				
11			WINA	N	$\mathbb{W}$						
12			BHGR	M	A	<u> </u>					
13			SPTO	'n	n	1					
14			Moro			]				Y	/
15			LAZS			1				4	
16			ATFL	l		2				Y	
17 18	5	AFYLOOZ	YEMP	h-	D	1					
18	2:42	AFYLooz	BHGn	R	SA 1						
l l			4		A	3		-	T		
20	6		WSJA	$\mathbf{r}$	A	1					1

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<sup>a</sup> check if Auditory only

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

omments per observation #:

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Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Act (1st, 2r		Hat	oitat	Rapt Nor Rap	n-	Aa	Breeding Status/Behavioral Notes
21	0743	AFC BD/	BACB	M	A	]	PE/C	elling	R	ASW	11/1	2		
22	0744		OATE	U	Ù	1		0					И	/
23	0745		BHGN	- ]	1	2							4	/
24		·	LEGO			3								
25			SOSP			4								
26	A		NUMO	1		)							j	
27	074/9	ARY WOJ	YENA	M	N	1		;						
28	0750		WSJA	$\sim$	n	3								
29	1		SATD	h	K	v								
30	0759	RTHAOI	RTHA	·h	A	1	Fly	i~ 5		b-	n	L		Near Nest loc.
31								<u> </u>						on map.
32														·
33														
34														
35														
36														

<sup>a</sup> check if Auditory only

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Acti	vity Codes		Habitats			Se	nsitive Species Codes		
PE	Perched	ССН	Chamise Chaparral	BE	Bald eagle	CO	Cooper's hawk	SA	Sharp-shinned hawk
so	Soaring	RSC	Red Shank	BL	Bank swallow	FH	Feruginous hawk	SW	Short-eared owl
FL	Flapping		Chaparral	BS	Belding's Savannah	GS	Grasshopper sparrow	WF	Southwestern willow
CS	Circle	BSS	Big Sagebrush		sparrow	GV	Grav vireo		flycatcher
00	Soaring	200	Scrub	SG	Bell's sage sparrow	GE	Golden eagle	SU	Summer tanager
нu	Hunting/	SSS	Upper Sonoran	CB	Brown headed cowbird	LG	Lawrence's goldfinch	SH	Swainson's hawk
110	Foraging	000	Subshrub Scrub	BW	Burrowing owl	BV	Least Bell's vireo	тв	Tricolored blackbird
от	Other	SOCH	Scrub Oak Chaparral	CC	California condor	LH	Loggerhead shrike	VF	Vermilion flycatcher
01	Ottier	CLOW	Coast Live Oak	LA	California homed lark	LO	Long-eared owl	WK	White-tailed kite
		,	Woodland	RP	California rufous-	ME	Merlin	YB	Western yellow-billed
		SWS	Southern Willow		crowned sparrow	NH	Northern harrier		cuckoo
		0110	Scrub	CW	Coastal cactus wren	PF	Peregrine falcon	WY	Yellow warbler
		NNG	Nonnative Grassland	CG	Coastal California gnatcatcher	FA PU	Prairie falcon Purple martin	YC	Yellow-breasted chat

Comments per observation #: \_

BIRD AREA SEARCH DATASHEET		Survey # <u>_3</u>	
DATE: 5-17-10 OBSERVER:	AFI START TIME: <u>0845</u> END TIME: <u>0</u>	5915 GPS 4	PAGE OF
WEATHER: VISIBILITY (CIRCLE ONE; 1=S	TART; 2=END) GOOD FAIR POOR CLOUD COVER (%)	160/160 TEM	P (°F) 6/. 8 159.1
WIND DIRECTION: (CIRCLE ONE; 1=START	TART; 2=END) GOOD FAIR POOR CLOUD COVER (%)	_ow: <u>011</u> High: <u>//</u>	1. <u>7. 3</u> Ave: <u>0.7, 3.7</u>
PRECIPITATION: (CIRCLE ONE; 1=START; 2	EEND) None light rain rain light snow snow sleet ha	il other <u>Overca</u>	stt

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Ha	abitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
	0845		HOWR	·h	N	2	PE/SI	Si	NS	NR	$\vee$	
2	1845		ORTI	U	N	2	t			j		
3	0848		SPTO	n	n	3						
	0749		HOVE	ょ	ĸ	5						
5	}		LELOS	N	n	2						
6			Mho	n	N	2						
7	Ø51	-	SPTO	1		3						
	0853		Jusit	-[		て						
9			NISJA			2						
10			WENN			2						
11	L		BHGAZ			2					γ	
12	0858		CALT			1						
13	0[00		Hour			)						
	0900	ATION	HEAR	ph	*		5				ì	
15	. 1		BLPH	N	u		FL					
16			ATTPL	N	A	2	SI			_		
17	0900		GHOW	n	A	7	Hur			R		on map
18	1		LAZZ	m	A	1	SI	D	sto	NR		<i>v</i>
19			DATE	N	Ν	2		Od	10		V	
20	5		HOFT	n	ん	5	-	Do	1	4		

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors Overall very quiet up have bird activity

Comments per observation #:

Page 2 of 2	Date: 5-17-10 Observer:	AVEJ

Survey #: \_\_\_\_

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Station #: \_\_\_

2

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
21	09,14		LEGO	N	N	5	PG	SWS	WR	•	
22	)		RTHA	·W	A		FL		R		ON WAP
23			WEJA	И	Ń	v	PE		NR	V	
24			HOFI	$\sim$	W	5	PE		MR	·V	
25			MBNU	N	A	1	FU	L	NR		
26			-								
27											
28											
29											
30											
31											······································
32											
33											
34											
35											· · ·
36		<u></u>									

<sup>a</sup> check if Auditory only

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Acti	ivity Codes		Habitats		Sensitive Species Codes										
PE	Perched	CCH	Chamise Chaparral	BE	Bald eagle	CO	Cooper's hawk	SA	Sharp-shinned hawk						
so	Soaring	RSC	Red Shank	BL	Bank swallow	FH	Feruginous hawk	SW	Short-eared owl						
FL	Flapping		Chaparral	BS	Belding's Savannah	GS	Grasshopper sparrow	WF	Southwestern willow						
cs	Circle	BSS	Big Sagebrush		sparrow	GV	Gray vireo		flycatcher						
00	Soaring	200	Scrub	SG	Bell's sage sparrow	GE	Golden eagle	SU	Summer tanager						
нυ	Hunting/	SSS	Upper Sonoran	CB	Brown headed cowbird	LG	Lawrence's goldfinch	SH	Swainson's hawk						
	Foraging		Subshrub Scrub	BW	Burrowing owl	BV	Least Bell's vireo	TB	Tricolored blackbird						
от	Other	SOCH	Scrub Oak Chaparral	cc	California condor	LH	Loggerhead shrike	VF	Vermilion flycatcher						
0.	O difei	CLOW	Coast Live Oak	LA	California horned lark	LO	Long-eared owl	WK	White-tailed kite						
		02011	Woodland	RP	California rufous-	ME	Merlin	YB	Western yellow-billed						
		SWS	Southern Willow		crowned sparrow	NH	Northern harrier		cuckoo						
		0110	Scrub	CW	Coastal cactus wren	PF	Peregrine falcon	YW	Yellow warbler						
		NNG	Nonnative Grassland	ĊĠ	Coastal California gnatcatcher	FA PU	Prairie falcon Purple martin	YC	Yellow-breasted chat						

Comments per observation #: \_\_\_\_

BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey #_ <u>3</u>	
DATE: 5-17-10 OBSERVER: AFJ	START TIME: 09-16 END TIME	1016 GPS 4	PAGE 1 OF 2-
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=EN	DY GOOD FAIR POOR CLOUD COVER (	(%) <u>) 09/102</u> TEM!	Р (°F) <u>69.2 / 67.0</u>
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END)	N NE E SE S SW W <del>NW</del> n/a SPEED (MPH	H) Low: 1 High .3	12. Ave: 1.211.5
PRECIPITATION: (CIRCLE ONE: 1=START; 2=END)	light rain rain light snow snow sleet	hail other <u>Overca</u>	sprcoul

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3r	rd)	Hal	bitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
1	0940		BIGH	N	K	1	PE/55	Ī	0ı	ch	NR	- 1	
2	1		HOFI	N	X	2	,		[	',		l	
3			SPTO	n	n	3						L	/
4			ATTFL	N	n							L	
5			LEGO	N	N	12	/						
6	0953		Howk	-12	N	2			Sh	15		4	
7	0959		ORTI	N	n	2						$\overline{\mathbf{N}}$	
8	1002		CORA	N	N	1							
9	1004		LAZB	h	h	3						V	
10	1005		Howr	- W	-n	ス						$\overline{\mathbf{N}}$	/
11	1006		CABN	$\sim$	X	-1						ĩ	j
12	1007		nove	· n	'n	1							
13	1010		(EGO	N	v	2							
14	1010		ANHU	u	5	2					and the second second second		
15	102		ATIFL	n	A	1					A State of the second se		
16	1015		ACho	5	$\kappa$						tard average rate of the	$\backslash$	
17	1015	· .	NOFL	n	N							V	
18			SPTO	N	A	2							
19			Bust	6	$\mathcal{W}$	4							
20			Sosp	n	ĸ	1				-	_		

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #:

Very few birds - low activity

	Page 2 of 2	Date: 5-17-10	Observer: _	AF
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-\_\_\_\_\_ Survey #: \_\_\_\_\_

3 \_\_\_\_\_ Station #: \_ 3

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
21	1015		WEID	n	A		PB.	SWS	m	N	
22	L		WEID Solp	n	A	l	PE/SI	L	4		
23							/				
24											
25			<u> </u>								
26											
27											
28							,				
29											
30											
31											
32											
33											
34				 							
35											
36											· · · · · · · · · · · · · · · · · · ·

<sup>a</sup> check if Auditory only

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Acti	vity Codes		Habitats			Se	nsitive Species Codes		
PE	Perched	CCH	Chamise Chaparral	BE	Bald eagle	CO	Cooper's hawk	SA	Sharp-shinned hawk
SO	Soaring	RSC	Red Shank	BL	Bank swallow	FH	Feruginous hawk	SW	Short-eared owl
FL	Flapping		Chaparral	BS	Belding's Savannah	GS	Grasshopper sparrow	WF	Southwestern willow
CS	Circle	BSS	Big Sagebrush		sparrow	GV	Gray vireo		flycatcher
	Soaring		Scrub	SG	Bell's sage sparrow	GE	Golden eagle	SU	Summer tanager
HU	Hunting/	SSS	Upper Sonoran	CB	Brown headed cowbird	LG	Lawrence's goldfinch	SH	Swainson's hawk
	Foraging		Subshrub Scrub	BW	Burrowing owl	BV	Least Bell's vireo	TB	Tricolored blackbird
от	Other	SOCH	Scrub Oak Chaparral	CC	California condor	LH	Loggerhead shrike	VF	Vermilion flycatcher
•.		CLOW	Coast Live Oak	LA	California horned lark	LO	Long-eared owl	WK	White-tailed kite
			Woodland	RP	California rufous-	ME	Merlin	YB	Western yellow-billed
		SWS	Southern Willow		crowned sparrow	NH	Northern harrier		cuckoo
		0110	Scrub	CW	Coastal cactus wren	PF	Peregrine falcon	YW	Yellow warbler
		NNG	Nonnative Grassland	CG	Coastal California gnatcatcher	FA PU	Prairie falcon Purple martin	YC	Yellow-breasted chat

\_\_\_\_\_

#### Comments per observation #: \_\_\_\_

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	SV #	- SWF Arch datash	L SUNV	eys c	AMPC			OJECT			LISV # 4 Survey # SWFL #1 STATION:
DATE	5-27-	10 OBSERVE	R: ERI	IRF	Ĺ	STA	RT TIME: <u>م</u> ح	20 END	TIME: _		06 GPS H PAGE OF 2
VEAT	HER: VIS	BILITY (CIRCLE	ONE; 1=START; :	2=END <b>X</b>	600	<b>P</b> FA	IR POOR (		VER (%	). ).2	301 5% TEMP (°F) 44.6,62
											3081598TEMP (°F) <u>44.6162</u> 1: <u>  14</u> High: 11/2-2Ave: 016, (
REC	IPITATION	: (CIRCLE ONE; 1	=START; 2=END	None	ligh , -	it rain	rain light sno	w snow	sleet h	ail	other
Obs No.	- Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
1			BusH						-		
2		· · · · · · · · · · · · · · · · · · ·	BUSH JEWA	M	A	2					Already GPS 4.
3		-	RNBB				· · · .				U
4			SPTO					٦			
5			How		· ·			· · · · · · · · · · · · · · · · · · ·	-		*
6			SOSP								
7			MODO								
8	-		13 H 612	/							
9	· ·		AMCD								
10			WBNU								
11	-	· · ·	ANG-L.								
12			ATEL								
13			HOVE								
14			CALOR								
15			1. E. 1. TO	•							
16	-		LIEKI								
17			CALT								
18			ANHU								
19			ATPL ATPL Atove CALQU LEGO WEKI GALT ANHU CONA LISP								
20	-		LISP								

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling <sup>1</sup> Special Status species and all raptors

Comments per observation #: \_\_\_\_\_

Page 2 of 2 Date: 5=27-10 Observer: AFI/ERT Survey #: SWFL 1

Station #:

Raptor/ # Activity Obs Time GPS Code Species Sex Age\* Habitat Non-Aª Breeding Status/Behavioral Notes No. Inds. (1st, 2nd, 3rd) Raptor 21 22 ġ. 23 30730 M I¥ WO 24 N R 10 25 . 1 . 26 A P 27 28 Acwo 29 WST 30 J avo 31 R  $\mathcal{V}$ 32 2 33 34 A m 35 36 BCSP

<sup>a</sup> check if Auditory only

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

NO LOV /SWEL

Acti	vity Codes		Habitats			Se	nsitive Species Codes		
PE	Perched	ССН	Chamise Chaparral	BE	Bald eagle	CO	Cooper's hawk	SA	Sharp-shinned hawk
so	Soaring	RSC	Red Shank	BL	Bank swallow	FH	Feruginous hawk	SW	Short-eared owl
FL	Flapping		Chaparral	BS	Belding's Savannah	GS	Grasshopper sparrow	WF	Southwestern willow
CS	Circle	BSS	Big Sagebrush		sparrow	GV	Gray vireo		flycatcher
	Soaring		Scrub	SG	Bell's sage sparrow	GE	Golden eagle	SU	Summer tanager
HU	Hunting/	SSS	Upper Sonoran	CB	Brown headed cowbird	LG	Lawrence's goldfinch	SH	Swainson's hawk
_	Foraging		Subshrub Scrub	BW	Burrowing owl	BV	Least Bell's vireo	TB	Tricolored blackbird
ОТ	Other	SOCH	Scrub Oak Chaparral	CC	California condor	LH	Loggerhead shrike	VF	Vermilion flycatcher
- •		CLOW	Coast Live Oak	LA	California horned lark	LO	Long-eared owl	WK	White-tailed kite
			Woodland	RP	California rufous-	ME	Merlin	YB	Western yellow-billed
		SWS	Southern Willow		crowned sparrow	NH	Northern harrier		cuckoo
			Scrub	CW	Coastal cactus wren	PF	Peregrine falcon	YW	Yellow warbler
		NNG	Nonnative Grassland	ĊG	Coastal California gnatcatcher	FA PU	Prairie falcon Purple martin	YC	Yellow-breasted chat

Comments per observation #: \_\_\_\_

LBN SURVEY#5 WIFE#2 044400 ENERGY DRO IFOT

BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey #	STATION: <u></u>
DATE: 6/10/10 OBSERVER: 221, JA	1C START TIME: 0704 END TIME	: <u>८६२२</u> GPS <u>S</u>	19 PAGE   OF
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=EI	ND) GOOD FAIR POOR CLOUD COVER (	%) 0% 10%	ТЕМР (°F) <u>58, 4, 67,</u> 3
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END)	N NE E SE SOODW NW n/a SPEED (MPH	H) Low: 1.9/10 High	n <u>9.614.8 Ave 2.712.5</u>
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)	ight rain rain light snow snow sleet	hail other	

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
1			LEGO								
2			ATT								
3			SPTO				·				· · ·
4			Best								
5			HOWR								
6			NUW 0								
7			VWAR								
8		) 	SOSP								· · · · · · · · · · · · · · · · · · ·
9		1	OATT								
10			LAGO								
.11			NOFL								
12			1 ,								
13			CORA								
14		MMCB03	BHCOCE	U	U	2	FL	SWS	$\overline{\mathcal{N}}$		· · ·
15	0017	-	BUOR						.1		
16	0845	VTWC Baz	BH CO (63)	V		and become	FL	SWS	N	4	
17											
18	and the second s										
19											
20											

<sup>a</sup> check if Auditory only

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #: \_

	LBN Survey#5	WIFL#2
BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT		
DATE: 6/10/10 OBSERVER: ERI, JMC START TIME 1042 END	TIME 1/12 CDS SWIN	DAGE LOFL
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD CON	VER (%) 0% 10% TEN	1P (°F) 723 748
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD CON WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S W NW n/a SPEED	D (МРН) LOW: 5711.2High/6/	47.3Ave:7.81. 3.8
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow s	leet bail other	

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
1			LEGO HOWR ATFL						- riaptos		
2			HOWR								
3			ATEI								
4			SPTO							+	
5		· · · · · · · · · · · · · · · · · · ·		_							
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7				_							
8											
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2					_						
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1											3
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5											
5										-	
7										-	
3				-	-/[-					-	
		-		-							
	<u> </u>				_	10					

<sup>a</sup> check if Auditory only

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling <sup>1</sup> Special Status species and all raptors

Comments per observation #: \_\_\_

WIFE/LBU	LBY Survey #5 WIFL #2
BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT	
DATE: 6/16/10 OBSERVER CT. JMC START TIME: 0504 EN	ND TIME: 0645 GPS MT4 PAGE 1 OF 2
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) COD FAIR POOR CLOUD ( WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S W W M n/a SPI	COVER (%) <u>0% 10%</u> TEMP (°F) <u>56 81631</u>
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S W W M n/a SPI	EED (MPH) Low: 0. 2. 0 High: 3.9.3.7 Ave 1. 01 1.6
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)	

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
1			BHOR								
2			BHOR YWAR WEWP								
3			WEWP								
4			RWBL				10				
5		Ľ	ACWO	Э							energia
6	<i>"</i>		SosP								
7			COYE			8	ter se con				
8			MODO								e e e e e e e e e e e e e e e e e e e
9			BUOW								£.
10			BusH								2
11			WERSL	të N		2					
12		2	BEWR					5	S. 9	8	× .
13			ATTEL								
14		e e	NUWO								
15			HOWR	-							· · · · ·
16			SPTO		.10						
17			RTHA								
18			CORA								a a
19			LEGO				a a				
20		*	CLSW								

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #: \_\_

sense succession and the sense of the

		BUSURVEY #5 WIFL #2
BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey # STATION:
DATE: 6/10/10 OBSERVER	21, TMC START TIME: 1016 END TIM	NE: 1029 GPS5MIM PAGE 1 OF 1
WEATHER: VISIBILITY (CIRCLE ONE; 1=	START; 2=END) GOOD FAIR POOR CLOUD COVE	R (%) <u>0% / 0%</u> темр (°F) <u>70.9 / 70.</u> ?
WIND DIRECTION: (CIRCLE ONE; 1=STA	RT; 2=END) N NE E SE S SW 2 NW n/a SPEED (1	ирн) Low: <u>1,9/1,9High5,9/59Ave<mark>3,5735</mark></u>
	r; 2=END) None light rain rain light snow snow slee	

I

	1	Sex ·	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Non- Raptor	Aª	Breeding Status/Behavioral Notes
	Aluwo								
	VWAR								·
	SSP								
	COPA								
	BEWR	-							
- 100 - E - A-	LAGO								
	Howk								
	Resp								
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					<u> </u>	<u>.</u>			11111000000 m
	_							$\left  \right $	

\* check if Auditory only

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #: \_

LBV Survey #5 WIF2#2 BIRD AREA SEARCH DATASHEET \_\_\_\_\_ CAMPO WIND ENERGY PROJECT \_\_\_\_\_ SURVEY #\_\_\_\_\_ STATION: 2 DATE: 10/10 OBSERVER: ERI, JMC START TIME: 0922 END TIME: 1004 GPS 5414 PAGE 1 OF 1 WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0% TEMP (°F) 78,9 178,9 WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW NW n/a SPEED (MPH) Low: 1.5126 High: 1918.0 Aver 41.3, 1 PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) NOTE light rain rain light snow snow sleet hail other \_\_\_\_\_

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
1			WENU								
2			ORTI		÷						X
3			NEST								80
4	×		SOSP								
5			MODO								2
6			YWAR								
7			LEGO								
8			BLSP				Ť.				
9	e e		SPTO				2		د.		
10			CLSW	8		A Makako					
11			WAFI				8				
12		and a second sec	NOFL	,				10			2
13		· · · · · · · · · · · · · · · · · · ·		10			in the				
14			10				11	2	1		namena da 1977 - Sa K
15				3	-						
16		d.									
17											
18					14			12			
19										25	A BLANTYON .
20											

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #: \_\_\_\_\_

											ant to a to
											LBV#3/SWFL#3
1	BV/S	INFL									0
BIRD	AREA-SE	ARCH DATASHE	ET	C			ENERGY PR	OJECT			_ Survey # STATION:
DATE	: 6/121	/10 OBSERVER	: Eln			STA		275 END	TIME:		GPS PAGE OF
VEA	THER: VI	SIBILITY (CIRCLE C	NE; 1=START;	2=END)	G00	D FA	IR POOR (	CLOUD CO	VER (%	)(	<u> </u>
VINE	DIRECT		1=START; 2≓EN	ND) N I	NEE	SE S	SW W NW I	n/a SPEE	D (MPH)	Lov	v: 212 High: 515 Ave: 3.21 4,
				-		7					other
Obs				T	T	#	Activity		Raptor/		
No.	Time	GPS Code	Species	Sex .	Age*	finds.	(1st, 2nd, 3rd)	Habitat	Non- Raptor	Aa	Breeding Status/Behavioral Notes
1			Howf							******	
2			OATI			"					
3		LAGO	· ·	M	E A	5	Perchel	WRF	-	-	Perched & Calling
4	n		ATEL				•				
5			USJA								
6											
7						 					
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10	14 1			· .					1		and the second
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13											
14											
15				1						-	
16										-	

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\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #: <u>LAGO</u> ADOED to MMP By hand

L	3V/Sn	IFL									LBV##/SWFL#3
		ARCH DATASH	EET	C		WINE	ENERGY PR	OJECT			Survey # STATION: 4A
		OBSERVE	R: 0110	700	15	STA	RT HME: <u>75</u>	END	TIME: _	//	GPS PAGE _/_ OP(
WEA	THER: VIS		ONE; 1=START; 2	2=END)	GOO	D FA	IR POOR	CLOUD CO	VER (%	)(	0 1 0 TEMP (°F) 51 1 51
WINE	DIRECTIO	ON: (CIRCLE ONE;	1=START; 2=EN	D) N	ΈE	SE S	SW W NW	n/a SPEE	D (MPH)	Lo	w: 0 / 0 High: 2 / Z Ave: 1 / (
			-51AN1, 2-LND,	$\mathcal{O}$	. пул т						
Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
1			50\$P								
2			HMER	-							
3			HOUR		¥						
4			ATTEL								
5			hoso								
6			ROWR								
7			BHGR								· · · · · · · · · · · · · · · · · · ·
8			ANTIV								
9			Legy								
10	-	-									
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15		-					······································				
16									(		
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18											
19											
20						1					

<sup>a</sup> check if Auditory only

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #:

	3 V/5 <sup>1</sup>	WFL <del>arch</del> datash	IEET	с			<u>DENERGY PR</u>	OJECT		-	LBV #5/SW FL#3
ATE	6/21/1	0 OBSERVE	R ELA			STA		O END	TIME	In	<u>20</u> GPS PAGE / OF
											0 / () TEMP (°F) 69 / 5
			- 1=START: 2=FN	DÍN I		SE S	SW W NW	n/a SPEE		— ۷ ا مە	v: 2/4 High: 4/6 Ave: 2.4/
		I: (CIRCLE ONE; 1		~ `							
				$\bigcirc$	, <u></u> .	1					
Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
1			UWPE								
2			HOUR								······································
3			WSJA								
4			Lebu								
5			RTHA								
6			504					<u> </u>			
7	840	_ 1	.YEWA	?	7	}	Perdu.	WRF	-		
8			ATFL								
9			RWÄ								
10			NRUUS								
11			ANHU								
12			BLPÀ								
13		~	NUWO								
14		· .	4 3 3								

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\* Age: (A) Adult, (SA) Subadult, (F) Fledgling <sup>1</sup> Special Status species and all raptors

2

Comments per observation #: NO GPS - YEWA Put on Map Py hand

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l

Perch

WRF

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Acuo

SPITO

AMCO

COYE

BH6R

weki

YEWA

LBV/SWFL		LBV#\$/SWFL#3
BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey # STATION: 🏼 🖉 3
DATE: 6/21/10 OBSERVER: ELA	START TIME: 575_ END TIME:	645 GPS PAGE 1 OF 1
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=EN		6) <u>- <del>0</del></u> TEMP (°F) <u>49 146</u>
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END)	N NEE SE S SW W NW	Low: 0 / High: 2 / 2 Ave: 1 / /
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)		

Obs No.	Time	GPS Code	Species	Sex	Age*	# inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
1.		SPTO									
2		LE60									
3		AMCR									· · · · · · · · · · · · · · · · · · ·
4	~				•						
5		WSJA									
6		W BAR	HOWR								· • ·
7 ·		OATI									
8		COHA	**								
9		ACWO	-							<u> </u>	
10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	BCSP	-								
11		505P									
12		YUWO									
13		MOQU									
14		CORAL									
15	-	ANHU									
16											
17											
18											
19											· · · · · · · · · · · · · · · · · · ·
20		· · · ·									· · · · · · · · · · · · · · · · · · ·

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #:

	LBV#\$/SWFL#3
LBV/SWFL	\ Ø
BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT	Survey # STATION:
DATE: 6/21/10 OBSERVER: Enk LAGSte START TIME: 733 END TIME:	<u> 多つわ</u> GPS - PAGE / OF /
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%)	<u> </u>
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) I	_ow: 0 / 2 High: 0 / 4 Ave: 0 / <b>4</b> 3.2
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END None) light rain rain light snow snow sleet ha	il other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
1		÷	ATEL								
2	-		OATI								
3			5058								
4	0740		YEWA	1	7.	1	PE	WRS		-	Percher, Singing
5			MODO								
6			WSGT								
7			COFA	-	÷.						
8			Lego								·
9			CATH								
10			STJA								
11			WEBL								• •
12			ALWHAM								
13			14 1								
14											
15											
16											
17	·										
18											
19											
20											

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\* Age: (A) Adult, (SA) Subadult, (F) Fledgling <sup>1</sup> Special Status species and all raptors

<u>D065</u>

Comments per observation #: \_\_\_\_

LBV#7 WIFE#4

BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey # 1	STATION: BAS G
DATE: 6 July 2010 OBSERVER: Drawing Mich	START TIME: 0517 END TIME:	BOS32 GPSSMIY	PAGE ( 07 /
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=E	END) GOOD FAIR POOR CLOUD COVER (%		P(PF) 48 148
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END)	NNE E SE S SW W NW n/a SPEED (MPH)	Low: 6, 70 High: 3.2	131 Ave: 14 11, 5
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END	lone light rain rain light snow snow sleet h	ail other	

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
1			ATPL								
2			SPTO								
3			5050								
4			CORA								· · · · · · · · · · · · · · · · · · ·
5			SOSP CORA WESJ AUGR HURI								· · · · · · · · · · · · · · · · · · ·
6			HUFI								
7			·								
8											
9											
10										_	· · · · · · · · · · · · · · · · · · ·
11											
12											
13										_	
14		<u> </u>		-	·						
15											
16											
17											
18											
19											
20											

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

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<sup>1</sup> Special Status species and all raptors

Comments per observation #: \_

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LBV#7 WIFL#4

- 44

BIRD AREA SEARCH DATASHEET	WIND ENERGY PROJECT	Survey # 1 STATION 4
DATE: 7/6/10 OBSERVER: Duning Million	START TIME: 0543 END TIME 07	20 GPS SAULY PAGE OF
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOL	AIR POOR CLOUD COVER (%)	X / X TEMP (°F) 43 / 53
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E	SESSWWODV ma SPEED (MPH) Lov	v. () / ○ High: 121 1, 9 Ave: 3 /
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END None light	rain rain light snow snow sleet hail	other

\_\_\_\_

MODD:

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behaviora! Notes
1			llovo			ŕ					
2			wesp	3		£					
3			BALGR	3	al 2	3					
4			WBN4	<u> </u>	264						
5			BABL CAOU?								·
6	··········		CORA AMCR							_+	
7			APLIT	(Are	125	que	Acardy				
8			NULO								
9			WREN				· · · · · · · · · · · · · · · · · · ·				
10			LEGO				-v				······
11		JMCB7-701-	BINSH	·			·				
12		STUDI IOI	WAST								
13	······································	JMC04470701	WEIKI COHA-		ed.	1	Phy inger	Paperey			
14			CATO					•			
15			HOURS	>			· .·				
16			505P							-	
17			BEDR	- 5)							
18		JMCB7-702	BHO								
19			0AT   3		_ 6	airt	Den (Low	tid South	in Noter	De	yd Sawajaraa)
20			BLPH:								
chec	k if Audito	ry only	a.560 : 1								

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling MALL : <sup>1</sup> Special Status species and all raptors

1 = Singing

Comments per observation #: \_\_\_\_\_

LBV#7 WIFLHY

BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey #	STATION: *3
DATE: 7/6/10 OBSERVER: Junger	START TIME: 0730 END TIME:	<u>0637</u> GPSS	14 PAGEL OF
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=E	ND GOOD FAIR POOR CLOUD COVER (9	(6) <u>&amp; / &amp;</u> (6)	темр (°F) <u>64 / 80</u>
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END)			h: 14/37 Ave 06/ 63
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)	lone light rain rain light snow snow sleet	hail_other	

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
1			NULLO HUVI:								
2			LEGO ATIF/_								
3			SPTO :	Ced. +	juis						
4		JWC0447-70	COHA_		col.t	2+ 16	V5 Perdonda	Level (Head	9000	ク	
5			WBNY ?	<b>1</b>			- A Sandar				
6			HOOR								·
7		500	A STOR	ur i							
8			Bar	21.							
9			CORA: WOGJ:	1. ( Yu	BACA	tels			-		
10			NUMD			1					
11			LAGO:	<u>×</u>							
12			CART .					-			
13											
14			-								
15											
16											
17			1								
18				1							
19					-				_		
20											

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling <sup>1</sup> Special Status species and all raptors

# Comments per observation #: \_\_\_\_\_

		LBV#7WIFL#4
BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey # STATION: 🕂 🚬
DATE: 1/6/10 OBSERVER: Doug	chieren Chillek START TIME: END TIME:	0942 GPS 5/ 12/ PAGE _ OF 1
	END FAIR POOR CLOUD COVER (%	
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=EN	D) N HE E SE S SW W NW n/a SPEED (MPH)	Low: 0.7 / 1 High: 57 55 Ave: 27 / 2.0
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)	None light rain rain light snow snow sleet h	ail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
1			WOWP .								
2			LAGO :								
3			Stor)								
4			Haor Fos Pi					<u> </u>			
5			BAGRI	(124	mily	)					
6			1000								
7			1000 1000 1000 1000								
8			ine .								
9										-	
10											·
11											
12											
13	•										
14											
15											
16											
17											
18											
19											
20											
° che	ck if Audito	ory only					10110	ulan Da		~	SARI

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling <sup>1</sup> Special Status species and all raptors

; @

MVayon Dancer ?

DAAT WAG-

Comments per observation #:

		LBV#7 WIFE#4
BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey # STATION: #4.4
DATE: 7/6/10 OBSERVER: Dang	CAMPO WIND ENERGY PROJECT	1003 GPS SM14 PAGE ) OF (
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=1	END) GOOD FAIR POOR CLOUD COVER (9	%) <u>&amp; / \$</u> TEMP (°F) <u>76 / 76</u>
	N NE E SE S SW W NW	
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)	None light rain rain light snow snow sleet	nail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
1			GATI								
2			OATI YEQOA:								
3			5070 5054								
4			AUSH								
5		· · · ·	haver (	>							
6			N4000								
7		-					*****				
8											
9				*•••							
10											
11											
12											
13	· · ·										
14											
15											
16											
17											·····
18											
19											
20											

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #: \_

DISFL/LBV BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT	SUFL ILRVI
BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT	Survey # 5 8 STATION: 2
DATE: 1610 OBSERVER: BAJER: START TIME: 0941 END TIME: 100	3 GPS X PAGE LOEL
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END)	10 TEMP (°F)86.6 190.0
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW (MSNW n/a SPEED (MPH) Low:	<u> 2.0/1.3</u> High: <u>26/3.1</u> Ave: <u>1.6/11.9</u>
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail oth	ber

Obs No.		GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	N	aptor/ Ion- aptor	Aa	Breeding Status/Behavioral Notes
1	0941		CORA							J	>	
2		-	मद्म।						1		$\times$	
3			ATTL									
4			WESJ									
5		BALL DD	LAGO				· · ·					
6			ONTI									
7			BHGR		FL						$\overline{\mathbf{x}}$	Corf. breeding
8		,	Bloch									LOGI Brealm
9			Su54						V			
10									শ			
11				-					<u>.</u>			
12											-	
13												
14											+	
15											_	
16												
17			· · ·									
18						_				_		
19								 				
20												

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

# Comments per observation #: \_\_\_\_\_

	REA SE	Lらい EARCH DATASH	EET	с	AMPO			OJECT			$50F_{3}^{LBN}$ STATION: 3
DATE:	7/16	10 OBSERVE	R: 2MU			STA		END	TIME:	A	30 GPS PAGE OF
VEATH	HER: VI	SIBILITY (CIRCLE)	ONE; 1=START; 2	2=END)	GÓO	2 D) FA	IR POOR		- VER (%	5)_(	30 gps page of _ 210 temp (°F)
VIND I	DIRECTI	ON: (CIRCLE ONE;	1=START; 2=EN	) D) N	NE E	SE S	SW 🖗 NW 1	n/a SPEE	D (MPH)	Lov	v: <u>]]</u> High: <u>]]</u> Ave: <u>]]</u> ,
RECI	PITATIO	N: (CIRCLE ONE; 1	=START; 2=END)	None	e ligh	t rain	rain light sno	w snow	sleet h	ail	other
Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
1 C	759		HAND						N		strange location billsize p
2			Acuso						N	X	· ·
3.			RTHA	ν	AFL	3.			R		<u> </u>
4			DATI						N		
5			1.260						1.		
6			CORA							X	
7			SPTO							$\mathbf{\nabla}$	
8		BALLOG	LALOO						14140		
9			PAAI								
10		1	LAZB								
11			ATTEL						40 VPM magic as because highly		
12			HOWR		1			<b>4</b> 1999	tele .		
13			NUWO						Ý	X	
14		BIACOOG	COLA	U	FL				R		
15			BUAR	****					N	$\times$	
16		· · · · · · · · · · · · · · · · · · ·	111-555						918 -		
17		 	HUYI								
18			ALT								· · · · · · · · · · · · · · · · · · ·
19			USBNU						nuu alino treasiliata ko		·····
20			503P		92						

\* Age: (A) Aduit, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #: \_\_\_\_\_

SWFL/LBV		
BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey # <u>5</u> _ STATION:
DATE: 7/16/10 OBSERVER: BMS, ER:		
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=EN	D) GOOD FAIR POOR CLOUD COVER (%)	0 1 0 TEMP (°F) 63.4 178.
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END)	N NE E SE S SW W NW n/a SPEED (MPH) L	ow: <u> </u>
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) NO	ne light rain rain light snow snow sleet hai	other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
1	0549	RSHA	B" USHLON		NEL	24			R	$\gamma$	ZIFL
2		Renta		•••	A				R		
3		Julie	-						N	$\succ$	
4		- ALLANAL							-	$\geq$	
5		ATTEL							-	¥	· · · ·
6		NUWO								X	
7		LEST								У	
8		1-0 0)								У	
9		NDFL MODD KUBL							of the second second	×	
10		MSOO							-	4	
11		KUSBL							a management and	X	
12		GAE							1	X	· · · · ·
13		LEDD	<i></i>							X	
14		MALL	· · · · · · · · · · · · · · · · · · ·						a de la construcción e sus de la construcción e sus de la construcción de la construcción de la construcción de		
15		BHGR	:						A selection of the sele		
16		PHA,							Constant of the second s		
17		DARNO							vi animite (eliter		
18		CALT							Ver	X	
19		Hask							ria antipatri tangan di		
20	-	Have BLGR							V.	A	

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #: \_\_\_\_

Page 2 of 2	Date:	16 10	Observer: BMU ER	-
· · · · · · · · · · · · · · · · · · ·	. ,	1	· · · · · · · · · · · · · · · · · · ·	

Survey #: <u>5 **8**</u> Station #: \_

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Rap No Rap	n-	Aa	Breeding Status/Behavioral Notes
21		·	BENR				-		N	}	$\times$	
22			AGUD									
23			SPTO									
24	B6413	BAK BOIL	Brico	$\sim$								flysy
25	<u> </u>	in the second	HUVI									
26			ANHU								X	
27									an search to a part of the second		X	
28			DLSW						din seguera a seguera			
29											$\times$	
30		BML606	CoHU						a and a stress of		$\times$	
31			0ATN						ana ang a sa panané		$\succ$	
32			COLA						a a sign and the schedule of the de-			
33			CAQU						ماكرت الألث فعاليهم فيصعبه		X	
34			CATL						والمراجع والمعاولة والمراجع والمعاولة والم		$\times$	
35			BEPH						ويورجه فقائمه فالتعالي			
36			GRRD		j.				and the second second		$\times$	

\* check if Auditory only \* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Acti	vity Codes		Habitats			Sei	nsitive Species Codes		
PE	Perched	CCH	Chamise Chaparral	BE	Bald eagle	CO	Cooper's hawk	SA	Sharp-shinned hawk
so	Soaring	RSC	Red Shank	BL	Bank swallow	FH	Feruginous hawk	SW	Short-eared owl
FL	Flapping		Chaparral	BS	Belding's Savannah	GS	Grasshopper sparrow	WF	Southwestern willow
CS	Circle	BSS	Big Sagebrush		sparrow	GV	Gray vireo		flycatcher
~~	Soaring		Scrub	SG	Bell's sage sparrow	GE	Golden eagle	ຣບ	Summer tanager
ΗU	Hunting/	SSS	Upper Sonoran	CB	Brown headed cowbird	LG	Lawrence's goldfinch	SH	Swainson's hawk
	Foraging		Subshrub Scrub	BW	Burrowing owl	BV	Least Bell's vireo	TB	Tricolored blackbird
от	Other	SOCH	Scrub Oak Chaparral	CC	California condor	LH	Loggerhead shrike	VF	Vermilion flycatcher
01	04101	CLOW	Coast Live Oak	LA	California horned lark	LO	Long-eared owl	WK	White-tailed kite
		<b>QLO</b>	Woodland	RP	California rufous-	ME	Merlin	YB	Western yellow-billed
		SWS	Southern Willow		crowned sparrow	NH	Northern harrier		cuckoo
		0110	Scrub	CW	Coastal cactus wren	PF	Peregrine falcon	YW	Yellow warbler
		NNG	Nonnative Grassland	CG	Coastal California gnatcatcher	FA PU	Prairie falcon Purple martin	YC	Yellow-breasted chat

Comments per observation #:

SUFL/LBV		SWFL LOW
SUFL/LBV BIRD AREA SEARCH DATASHEET		
DATE: 116 10 OBSERVER: BAUER		0538 GPS 8 PAGE OF
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=EN	ND) COOD FAIR POOR CLOUD COVER (%	6) <u>0 / 0</u> TEMP (°F) <u>113 / 715</u>
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END)	N NE E SE S SW W NW n/a SPEED (MPH)	Low: <u>) / ()</u> High: <u>) / ()</u> Ave: <u>)</u>
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)		

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Дa	Breeding Status/Behavioral Notes
1	0522		SPTO						N	${\mathcal X}$	
2		11. 2	ATFL							$\checkmark$	
3			BRSR							X	
4			YWAR							V.	
5			CALT 538 1.555							X	
6			5000						** The share a second		
7			LESS		-				and a strength of the state		
8			HOGI						The second		
9			CATH							X	
10			BUSH							1	
11	-		() Marchael ()						7		
12											х. х
13											
14				i							
15											
16		· · · · · · · · · · · · · · · · · · ·									
17											
18											
19			-								
20											

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #:



AECOM 1420 Kettner Boulevard Suite 500 San Diego, CA 92101 www.aecom.com 619.233.1454 tel 619.233.0952 fax

August 30, 2010

Ms. Sandy Marquez Recovery Permit Coordinator Carlsbad Fish and Wildlife Office 6010 Hidden Valley Road, Suite 101 Carlsbad, California 92011

#### RE: 45-Day Summary Report of Protocol-Level Surveys for Southwestern Willow Flycatcher for the Campo Wind Energy Project

Dear Ms. Marquez:

In compliance with the Special Terms and Conditions for Endangered and Threatened Wildlife Species Permit TE-820658-4, AECOM submits this letter report summarizing the results of protocol surveys conducted during 2010 for the federally listed endangered southwestern willow flycatcher (*Empidonax traillii extimus*; SWFL) associated with the Campo Wind Energy Project. AECOM currently holds an Endangered and Threatened Species Permit issued by the U.S. Fish and Wildlife Service (USFWS) under Section 10(a) of the federal Endangered Species Act. This permit authorizes AECOM to conduct presence/absence surveys for SWFL.

## **Project Description**

The Campo Band of Mission Indians (a California federally recognized Indian tribe), Muht-Hei, Inc. (a tribally chartered corporation wholly owned by the Campo Band of Mission Indians), the Bureau of Indian Affairs, and Invenergy Wind California, LLC propose construction and operation of a wind energy-generation facility on the Campo Indian Reservation in southeastern San Diego County. This facility would be capable of generating up to 300 megawatts (MW) of electricity and would include wind turbines, substations, transmission facilities, operations and maintenance building, and access roads. The project is currently being designed, but generally, strings of 2.5-MW turbines are being considered for installation across ridgelines throughout the reservation that do not contain residences, including areas north and south of both Interstate 8 (I-8) and State Route 94. Each turbine would be set on a large concrete foundation. Turbines would be connected by underground electrical cables to one or two substations. Each substation would be sited on approximately 2 to 3 acres and would consist of a graveled, fenced area containing transformers and switching equipment and an area to park utility vehicles. In addition, a three-phase overhead transmission circuit line would be constructed from each substation to connect the project to the existing transmission network. A temporary concrete batch plant would likely be necessary during construction. The biological survey area (BSA) identified for the proposed project includes approximately 4,417 acres. This acreage encompasses the area within which all proposed project components would be located, with a 500-foot buffer around new proposed components (i.e., turbines, substations, and transmission facilities) and a 100-foot buffer around existing features (i.e., existing roads) that are proposed to be used or modified.



#### **Site Description**

The Campo Indian Reservation includes lands both north and south of I-8 along the Tecate Divide, extending from the Manzanita Indian Reservation to the north and south to 0.25 mile north of the California and Mexico international border (Figure 1). The reservation is located between the communities of Old Campo and Jacumba, around the community of Live Oak Springs, and bisected by Church Road (Figure 2). On-site elevation ranges from approximately 3,030 to 4,320 feet above mean sea level.

The BSA supports a variety of habitat types and vegetation communities but is dominated by chamise chaparral, with both a monotypic phase and a mixed chaparral phase. Additional vegetation communities found throughout the site and especially along ridges and slopes include redshank chaparral, big sagebrush scrub, and Sonoran subshrub scrub. A series of north-south-running ridges is located throughout the proposed project site separated by shallow valleys consisting of coast live oak woodland, nonnative grassland, and southern willow scrub vegetation. Buckwheat scrub is interspersed throughout the chamise chaparral, primarily in shallow valleys, along washes and roads, and along firebreaks. Various large rock outcrops are scattered throughout the site but are primarily located along the ridgelines.

## **Background Information**

The SWFL, a subspecies of willow flycatcher (*Empidonax traillii*), was listed by the California Department of Fish and Game (CDFG) as endangered in California in 1991 (CDFG 1991) as part of the state-endangered listing of the full species (willow flycatcher). The SWFL was also federally listed as endangered in 1995 (USFWS 1995). This subspecies can only be separated from other willow flycatcher subspecies in the field geographically by breeding range. The SWFL breeds in New Mexico, Arizona, Southern California, Nevada, Utah, and possibly west Texas (Rourke et al. 1999). According to Unitt (2004), fewer than 90 pairs breed in San Diego County. In 2005, USFWS issued the final ruling to designate critical habitat for the SWFL, which includes portions of San Diego County (USFWS 2005). No critical habitat occurs within the BSA.

The primary factor responsible for the decline of the SWFL is habitat loss, exacerbated by nest predation and brood parasitism by brown-headed cowbirds (*Molothrus ater*, BHCO) (Rourke et al. 1999). The SWFL is a neotropical migrant that breeds in riparian forests with a distinct vegetation structure: a dense understory where nests are built, a moderately closed canopy, and an open foraging area at midstory. SWFL breeding habitat is also characterized by actively changing hydrology, frequently including standing water, but also dry areas that have flooded within the past few years and retain the appropriate vegetation structure. In California, less than 5% of appropriate riparian habitat remains from its extent when California achieved statehood in 1850 (Kus 2003).

SWFLs begin arriving on breeding territories in San Diego County in early May, but the northern subspecies (*E. t. brewsteri*) may migrate through southern breeding areas through mid-June. Both male and female migrant willow flycatchers frequently sing, and determining



whether an individual is a resident (SWFL) or a migrant (willow flycatcher) cannot be accomplished from a single detection. Therefore, a survey protocol for SWFL has been adopted by USFWS (Sogge et al. 2010).

#### Survey Methodology

Prior to initiation of surveys, AECOM biologists reviewed the California Natural Diversity Database (CDFG 2010), the eBird database (eBird 2010), and the San Diego County Bird Atlas (Unitt 2004) to determine the closest known occurrences of SWFL in the vicinity of the BSA. The largest colony of SWFL in San Diego County breeds along the upper San Luis Rey River in the Cleveland National Forest (approximately 45 miles northwest of the BSA), which had between 45 and 50 territorial males between 1993 and 2001 (Unitt 2004). The nearest possible breeding colony from the BSA consists of two territorial males documented in 2001 at the upper end of El Capitan Reservoir, approximately 27 miles from the BSA (Unitt 2004).

A habitat assessment focusing on suitable SWFL habitats within and adjacent to the BSA was completed by qualified AECOM biologists James McMorran and Erin Riley on April 17 and April 22, 2010. Contiguous riparian areas either within the BSA or within the immediate vicinity of the BSA were assessed, mapped, and digitized. Areas mapped as suitable SWFL habitat included all riparian willow forest and riparian willow scrub associations, and upland and wetland habitats adjacent to areas of scrub. Riparian areas adjacent to the BSA with optimal SWFL habitat were considered when they were contiguous with suitable habitat in the BSA because of the nature of the forthcoming risk assessment for the proposed wind farm project. This approach ensures maximum potential for detectability of SWFLs migrating through or breeding in the vicinity of the project but outside of the footprint. Four areas within or adjacent to the BSA were found to have habitat suitable to support SWFL; an overview of these areas is depicted in Figure 3. Three of the four SWFL Survey Areas are located in the southern half of the BSA (SWFL Survey Areas 2, 3, and 4), and the remaining Survey Area (SWFL Survey Area 6) is located in the northern half (Figure 3). The SWFL Survey Area numbering system (2, 3, 4, and 6) is consistent with an ongoing Bird Area Search study. Approximately 6.24 acres of suitable SWFL habitat occur within the BSA, and approximately 21.11 acres occur outside of the BSA (contiguous with SWFL habitat within the BSA), providing a combined total of approximately 27.35 acres of surveyed suitable SWFL habitat (Figures 4a, 4b, 4c, and 4d).

AECOM biologists Erin Riley (permitted), Brennan Mulrooney (under supervision at the time of project surveys; now independently permitted), Andrew Fisher (under supervision), and James McMorran (under supervision) conducted surveys under Endangered Species Permit TE-820658-4. AECOM biologists Doug Willick (permitted) and Erik LaCoste (permitted) conducted surveys under Endangered Species Permits TE-821404-5 and TE-027736-4, respectively. The protocol surveys followed the current USFWS survey protocol (Sogge et al. 2010). Each SWFL Survey Area was surveyed once during the first survey period (May 15 through 31), twice during the second survey period (June 1 through 24), and twice during the third survey period (June 25 through July 17). Surveys in each SWFL Survey Area were



conducted at least 5 days apart between dawn and 11 a.m. Biologists walked through suitable habitat, stopping frequently to listen. After a few minutes of passive listening, if no SWFLs were heard, a playback tape of SWFL calls was played (active surveys) to elicit a response from SWFLs in the vicinity. Incidental SWFL detections during other field surveys were also recorded and mapped.

As allowed under the relevant endangered species permits, the survey activity "takes" the SWFL through harassment with playback of taped SWFL vocalizations. No individual SWFLs were captured.

#### Results

Protocol-level SWFL surveys occurred between May 27 and July 16, 2010, within the BSA and adjacent areas of suitable SWFL habitat (Table 1). A summary of survey data is presented in Table 1, including date of survey, survey number, time, weather conditions, field biologists, and SWFL observations. Field notes are presented in Appendix A.

	Survey			Weather	SWFL
Date	Period	Surveyors	Time	Conditions	Observed
05/27/10	1	Andrew Fisher Erin Riley	0520–1106	Start: 44°F, wind 0–1 mph, 30% cover End: 62°F, wind 2–6 mph, 5% cover	None
06/10/10	2	James McMorran Erin Riley	0504–1102	Start: 56°F, wind 0–4 mph, 0% cover End: 74°F, wind 5–16 mph, 0% cover	None
06/21/10	3	Erik LaCoste	0515–1035	Start: 48°F, wind 0–2 mph, 0% cover End: 80°F, wind 2–5 mph, 0% cover	None
07/06/10	4	James McMorran Doug Willick	0517–1003	Start: 48°F, wind 0–3 mph, 0% cover End: 76°F, wind 0–2 mph, 0% cover	None
07/16/10	5	Brennan Mulrooney Erin Riley	0522–1003	Start: 71°F, wind 0 mph, 0% cover End: 90°F, wind 0–3 mph, 0% cover	None

# Table 1Southwestern Willow Flycatcher Protocol SurveysDates, Personnel, Weather Conditions, and Results

No SWFLs were detected within the BSA or adjacent areas during the survey period. However, an individual identified to "Traill's" flycatcher (willow flycatcher [*Empidonax traillii*] or alder flycatcher [*E. alnorum*]) was detected foraging at SWFL Survey Area 3 on May 7, 2010 (Figure 4b). This individual was identified by James McMorran while conducting a least Bell's vireo protocol survey. It did not vocalize and was not detected again during any protocol surveys on-site.

BHCOs were detected at two survey locations adjacent to the BSA (Figures 4b and 4c), with a maximum number of five individuals observed on one occasion in June. A summary of BHCOs detected on-site is provided in Table 2.



Survey Period	Survey Dates	Number of BHCO Individuals Detected
1	05/27/10	1
2	06/10/10	5
3	06/21/10	0
4	07/06/10	2
5	07/16/10	0

#### Table 2 Summary of Brown-Headed Cowbird Observations by Survey Period

#### Discussion

Protocol-level surveys for SWFL did not yield any sign of this subspecies' presence within the BSA or adjacent areas. A nonvocal "Traill's" flycatcher (willow or alder flycatcher) was seen perching and foraging for approximately 1 minute at a distance of approximately 40 feet within the understory of the willows at SWFL Survey Area 3 on May 7, 2010, by James McMorran while conducting a least Bell's vireo protocol survey.

The Traill's flycatcher recorded on-site was observed at a time of year when willow flycatchers are migrating through San Diego County (early May). Willow flycatchers detected during May 15 through June 24 in Southern California cannot be confirmed as breeding onsite (Sogge et al. 2010). Individual willow flycatchers identified during this time period could be migrants of other subspecies (non-SWFL) and/or migrant SWFL subspecies that are not resident on-site. Only the SWFL subspecies breeds in San Diego County (Sogge et al. 2010). Thus, to confirm that the SWFL subspecies is breeding on-site, it must be detected on-site from June 25 through July 17, after which willow flycatchers should no longer be migrating through the region (Sogge et al. 2010). During this time of spring, any individuals detected are probably resident breeding or nonbreeding SWFLs. No willow flycatchers were observed on-site after May 7 for the remainder of any field project survey efforts thus far. It is therefore concluded that the Traill's flycatcher observed was using the area as stopover habitat during its spring migration.

As mentioned previously, historical accounts of territorial male suspected breeding or confirmed breeding locations were accessed through the San Diego County Bird Atlas (Unitt 2004), with the nearest known locations documented in 2001 at the upper end of El Capitan Reservoir, approximately 27 miles from the BSA. AECOM's protocol-level survey results in spring 2010, along with publicly available data, do not suggest a breeding population of this species in the immediate vicinity of the Campo Wind Energy Project.



If you have any questions or comments regarding this report, please contact me at (619) 233-1454.

Sincerely,

lames WMMoman

James McMorran Wildlife Biologist james.mcmorran@aecom.com

Attachments: Figure 1 – Regional Map Figure 2 – Vicinity Map Figure 3 – Southwestern Willow Flycatcher Survey Area Overview Figure 4a – Southwestern Willow Flycatcher Survey Area 2 Results Figure 4b – Southwestern Willow Flycatcher Survey Area 3 Results Figure 4c – Southwestern Willow Flycatcher Survey Area 4 Results Figure 4d – Southwestern Willow Flycatcher Survey Area 6 Results Appendix A – Field Data Sheets

09080183 06 Campo Wind Energy 45-Day SWFL Ltr Rpt\_8-30-10.doc



#### **Certification**

Qualified biologists who conducted SWFL surveys for the Campo Wind Energy Site certify that the information in this survey report fully and accurately represents the work performed by AECOM biologists. Signatures of current AECOM biologists as listed in Table 1 who conducted protocol-level surveys (May 27 through July 16, 2010) are included below. The results of protocol-level surveys for listed species are typically considered valid for 1 year by the resource agencies.

(for Other

Andrew Fisher Wildlife Biologist

s & Willer

Doug Willick Wildlife Biologist

Erik LaCoste Wildlife Biologist

Fin Riley

Erin Riley Wildlife Biologist

Brehnan Mulrooney Wildlife Biologist

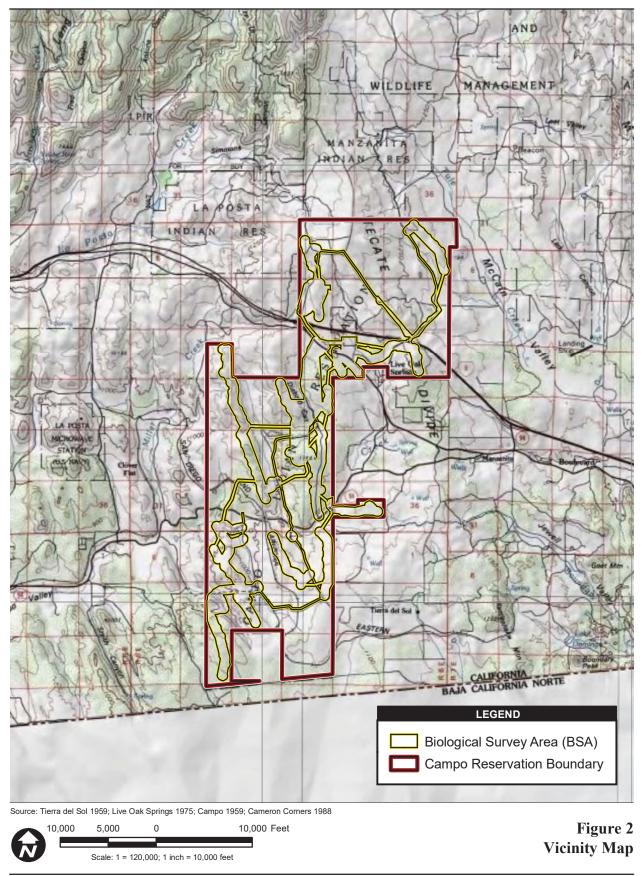


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- U.S. Fish and Wildlife Service (USFWS). 2005. Designation of Critical Habitat for the Southwestern Willow Flycatcher (*Empidonax traillii extimus*); Final Rule. Federal Register 50 CFR Part 17.

**FIGURES** 





Campo Wind Energy Project Southwestern Willow Flycatcher 45-Day Report Path: P:\2009\09080183\_Campo\_wind\6.0 GIS\6.3 Layout\BIO\AVIAN\WIFL\_45DayReport\_Aug2010\Fig2Vicinity.mxd, 08/30/10, johnsonaa



Source: DigitalGlobe 2008; Invenergy 2010; AECOM 2010

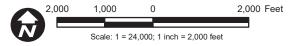


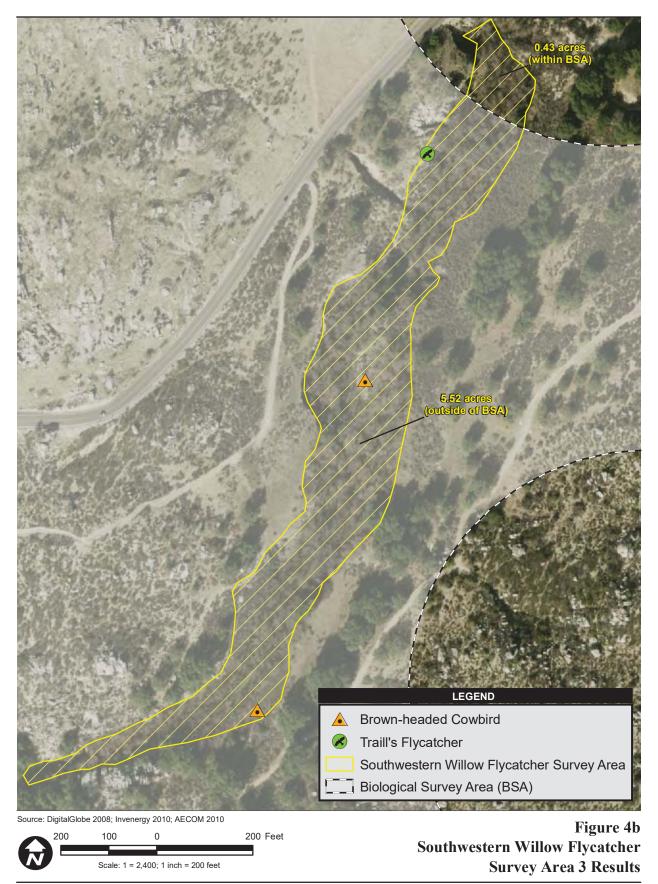
Figure 3 Southwestern Willow Flycatcher Survey Areas Overview

#### Campo Wind Energy Project Southwestern Willow Flycatcher 45-Day Report

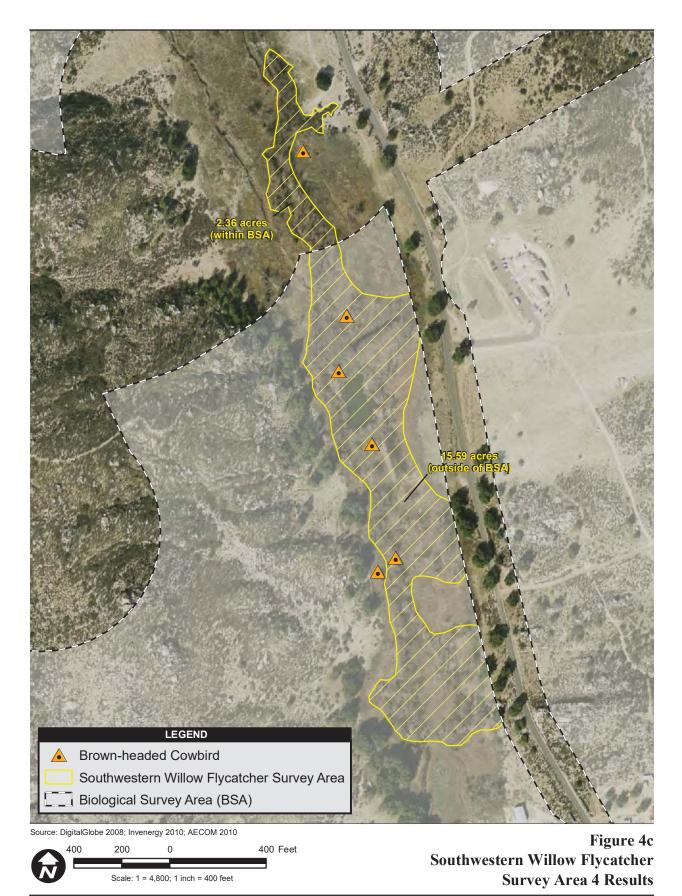
Path: P:\2009\09080183\_Campo\_wind\6.0 GIS\6.3 Layout\BIO\AVIAN\WIFL\_45DayReport\_Aug2010\Fig3\_WIFL\_SurveyAreas\_Overview.mxd, 08/20/10, johnsonaa



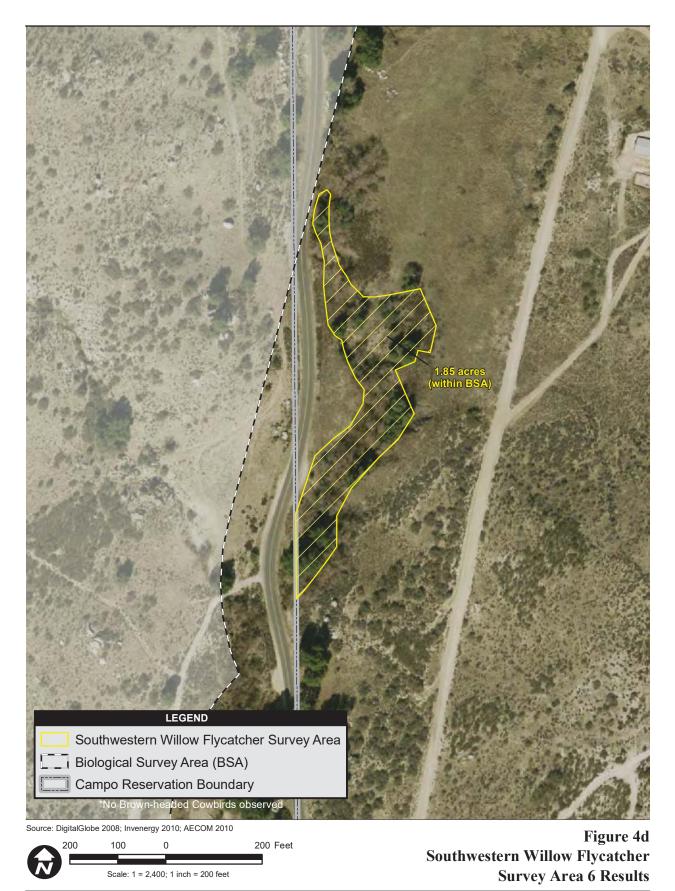
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Campo Wind Energy Project Southwestern Willow Flycatcher 45-Day Report
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# **APPENDIX A**

# FIELD DATA SHEETS

	SV #	- SWF Arch datash	L SUNV	eys c	AMPC			OJECT			LISV # 4 Survey # SWFL #1 STATION:
DATE	5-27-	10 OBSERVE	R: ERI	IRF	Ĺ	STA	RT TIME: <u>م</u> ح	20 END	TIME: _		06 GPS H PAGE OF 2
VEAT	HER: VIS	BILITY (CIRCLE	ONE; 1=START; :	2=END <b>X</b>	600	<b>P</b> FA	IR POOR (		VER (%	). ).2	301 5% TEMP (°F) 44.6,62
											3081598TEMP (°F) <u>44.6162</u> 1: <u>  14</u> High: 11/2-2Ave: 016, (
REC	IPITATION	: (CIRCLE ONE; 1	=START; 2=END	None	ligh	it rain	rain light sno	w snow	sleet h	ail	other
Obs No.	- Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
1			BusH						-		
2		· · · · · · · · · · · · · · · · · · ·	BUSH JEWA	M	A	2					Already GPS 4.
3		-	RNBB				· · · .				U
4			SPTO					٦			
5			How		· ·			· · · · · · · · · · · · · · · · · · ·	-		*
6			SOSP								
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8	-		13 H 612	/							
9	· ·		AMCD								
10			WBNU								
11	-	· · ·	ANG-L.								
12			ATEL								
13			HOVE								
14			CALOR								
15			1. E. 1. TO	•							
16	-		LIEKI								
17			CALT								
18			ANHU								
19			ATPL ATPL Atove CALQU LEGO WEKI GALT ANHU CONA LISP								
20	-		LISP								

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling <sup>1</sup> Special Status species and all raptors

Page 2 of 2 Date: 5=27-10 Observer: AFI/ERT Survey #: SWFL 1

Station #:

Raptor/ # Activity Obs Time GPS Code Species Sex Age\* Habitat Non-Aª Breeding Status/Behavioral Notes No. Inds. (1st, 2nd, 3rd) Raptor 21 22 ġ. 23 30730 M I¥ WO 24 N R 10 25 . 1 . 26 A P 27 28 Acwo 29 WST 30 J avo 31 R  $\mathcal{V}$ 32 2 33 34 A m 35 36 BCSP

<sup>a</sup> check if Auditory only

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

NO LOV /SWEL

Acti	vity Codes		Habitats			Se	nsitive Species Codes		
PE	Perched	ССН	Chamise Chaparral	BE	Bald eagle	CO	Cooper's hawk	SA	Sharp-shinned hawk
so	Soaring	RSC	Red Shank	BL	Bank swallow	FH	Feruginous hawk	SW	Short-eared owl
FL	Flapping		Chaparral	BS	Belding's Savannah	GS	Grasshopper sparrow	WF	Southwestern willow
CS	Circle	BSS	Big Sagebrush		sparrow	GV	Gray vireo		flycatcher
	Soaring		Scrub	SG	Bell's sage sparrow	GE	Golden eagle	SU	Summer tanager
HU	Hunting/	SSS	Upper Sonoran	CB	Brown headed cowbird	LG	Lawrence's goldfinch	SH	Swainson's hawk
_	Foraging		Subshrub Scrub	BW	Burrowing owl	BV	Least Bell's vireo	TB	Tricolored blackbird
ОТ	Other	SOCH	Scrub Oak Chaparral	CC	California condor	LH	Loggerhead shrike	VF	Vermilion flycatcher
- •		CLOW	Coast Live Oak	LA	California horned lark	LO	Long-eared owl	WK	White-tailed kite
			Woodland	RP	California rufous-	ME	Merlin	YB	Western yellow-billed
		SWS	Southern Willow		crowned sparrow	NH	Northern harrier		cuckoo
			Scrub	CW	Coastal cactus wren	PF	Peregrine falcon	YW	Yellow warbler
		NNG	Nonnative Grassland	ĊG	Coastal California gnatcatcher	FA PU	Prairie falcon Purple martin	YC	Yellow-breasted chat

LBN SURVEY#5 WIFE#2 044400 ENERGY DRO IFOT

BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey #	STATION: <u></u>
DATE: 6/10/10 OBSERVER: 221, JA	1C START TIME: 0704 END TIME	: <u>८६२२</u> GPS <u>S</u>	19 PAGE   OF
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=EI	ND) GOOD FAIR POOR CLOUD COVER (	%) 0% 10%	ТЕМР (°F) <u>58, 4, 67,</u> 3
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END)	N NE E SE SOODW NW n/a SPEED (MPH	H) Low: 1.9/10 High	n <u>9.614.8 Ave 2.712.5</u>
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)	ight rain rain light snow snow sleet	hail other	

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
1			LEGO								
2			ATT								
3			SPTO				·				· · ·
4			Best								
5			HOWR								
6			NUW 0								
7			VWAR								
8		) 	SOSP								· · · · · · · · · · · · · · · · · · ·
9			OATT								
10			LAGO								
.11			NOFL								
12			1 ,								
13			CORA								
14		MMCB03	BHCOCE	U	U	2	FL	SWS	$\overline{\mathcal{N}}$		· · ·
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19											
20											

<sup>a</sup> check if Auditory only

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

	LBN Survey#5	WIFL#2
BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT		
DATE: 6/10/10 OBSERVER: ERI, JMC START TIME 1042 END	TIME 1/12 CDS SWIN	DAGE LOFL
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD CON	VER (%) 0% 10% TEN	1P (°F) 723 748
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD CON WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S W NW n/a SPEED	D (МРН) LOW: 5711.2High/6/	47.3Ave: 7.81. 3.8
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow s	leet bail other	

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
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3				-	-/[-					-	
		-		-							
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<sup>a</sup> check if Auditory only

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling <sup>1</sup> Special Status species and all raptors

WIFE/LBU	LBY Survey #5 WIFL #2
BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT	
DATE: 6/16/10 OBSERVER CT. JMC START TIME: 0504 EN	ND TIME: 0645 GPS MT4 PAGE 1 OF 2
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) COD FAIR POOR CLOUD ( WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S W W M n/a SPI	COVER (%) <u>0% 10%</u> TEMP (°F) <u>56 8 / 63 / </u>
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S W W M n/a SPI	EED (MPH) Low: 0. 2. 0 High: 3.9.3.7 Ave 1. 01 1.6
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)	

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
1			BHOR								
2			BHOR YWAR WEWP								
3			WEWP								
4			RWBL				10				
5		Ľ	ACWO	Э							energia
6	<i>"</i>		SosP								
7			COYE			8	ter se con				
8			MODO								e e e e e e e e e e e e e e e e e e e
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16			SPTO		.10						
17			RTHA								
18			CORA								a a
19			LEGO				a a				
20		*	CLSW				·				

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #: \_\_

sense succession and the sense of the

		BUSURVEY #5 WIFL #2
BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey # STATION:
DATE: 6/10/10 OBSERVER	21, TMC START TIME: 1016 END TIM	NE: 1029 GPS5MIM PAGE 1 OF 1
WEATHER: VISIBILITY (CIRCLE ONE; 1=	START; 2=END) GOOD FAIR POOR CLOUD COVE	R (%) <u>0% / 0%</u> темр (°F) <u>70.9 / 70.</u> ?
WIND DIRECTION: (CIRCLE ONE; 1=STA	RT; 2=END) N NE E SE S SW 2 NW n/a SPEED (1	ирн) Low: <u>1,9/1,9High5,9/59Ave<mark>3,5735</mark></u>
	r; 2=END) None light rain rain light snow snow slee	

I

	1	Sex ·	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Non- Raptor	Aª	Breeding Status/Behavioral Notes
	Aluwo								
	VWAR								·
	SSP								
	COPA								
	BEWR	-							
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	_							$\left  \right $	

\* check if Auditory only

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

LBV Survey #5 WIFL#Z BIRD AREA SEARCH DATASHEET \_\_\_\_\_ CAMPO WIND ENERGY PROJECT \_\_\_\_\_ SURVEY #\_\_\_\_\_ STATION: 2 DATE: 10/10 OBSERVER: ERI, JMC START TIME: 0922 END TIME: 1004 GPS 5414 PAGE 1 OF 1 WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%) 0% TEMP (°F) 78,9 178,9 WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW NW n/a SPEED (MPH) Low: 1.5126 High: 1918.0 Aver 41.3, 1 PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) NOTE light rain rain light snow snow sleet hail other \_\_\_\_\_

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
1			WENU								
2			ORTI		÷						X
3			NEST								80
4	×	200 30 30 30 -	SOSP								
5			MODO								2
6			YWAR								
7			LEGO								
8			BCSP				Ť.				
9	e e		SPTO				2		د.		
10			CLSW	8		A Makako					
11			WAFI				8				
12		and a second sec	NOFL	,				10			2
13		· · · · · · · · · · · · · · · · · · ·		10			in the				
14			10				11	2	1		namena da 1977 - Sa K
15				z	-						
16		d.									
17											
18					14			12			
19										25	A BLANTYON .
20											

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

											ant to a to
											LBV#3/SWFL#3
1	BV/S	INFL									0
BIRD	AREA-SE	ARCH DATASHE	ET	C			ENERGY PR	OJECT			Survey # STATION:
DATE	: 6/121	/10 OBSERVER	: Eln			STA		275 END	TIME:		GPS PAGE OF
VEA	THER: VI	SIBILITY (CIRCLE C	NE; 1=START;	2=END)	G00	D FA	IR POOR (	CLOUD CO	VER (%	)(	<u> </u>
VINE	DIRECT		1=START; 2≓EN	ND) N I	NEE	SE S	SW W NW I	n/a SPEE	D (MPH)	Lov	v: 212 High: 515 Ave: 3.21 4,
				-		7					other
Obs				T	T	#	Activity		Raptor/		
No.	Time	GPS Code	Species	Sex .	Age*	finds.	(1st, 2nd, 3rd)	Habitat	Non- Raptor	Aa	Breeding Status/Behavioral Notes
1			Howf							******	
2			OATI			"					
3		LAGO	· ·	M	E A	5	Perchel	WRF	-	-	Perched & Calling
4	n		ATEL				•				
5			USJA								
6											
7						 					
8											
9											
10	14 1			· .					1		and the second
11											
12								-			
13											
14											
15				1						-	
16							<u> </u>			-	

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\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #: <u>LAGO</u> ADOED to MMP By hand

L	3V/Sn	IFL									LBV##/SWFL#3
		ARCH DATASH	EET	C		WINE	ENERGY PR	OJECT			Survey # STATION: 4A
		OBSERVE	R: 0110	700	15	STA	RT HME: <u>75</u>	END	TIME: _	//	GPS PAGE OP(
WEA	THER: VIS		ONE; 1=START; 2	2=END)	GOO	D FA	IR POOR	CLOUD CO	VER (%	)(	0 1 0 TEMP (°F) 51 1 51
WINE	DIRECTIO	ON: (CIRCLE ONE;	1=START; 2=EN	D) N	ΈE	SE S	SW W NW	n/a SPEE	D (MPH)	Lo	w: 0 / 0 High: 2 / Z Ave: 1 / (
			-51AN1, 2-LND,	$\mathcal{O}$	. пул т						
Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
1			50\$P								
2			HMER	-							
3			HOUR		¥						
4			ATTEL								
5			moso								
6			ROWR								
7			BHGR								· · · · · · · · · · · · · · · · · · ·
8			ANTIV								
9			Legy								
10	-	-									
11											· · · · · · · · · · · · · · · · · · ·
12	<u>د</u>							*			
13											
14							· · · · · · · · · · · · · · · · · · ·				
15		-					······································				
16									(		
17											
18											
19											
20						1					

<sup>a</sup> check if Auditory only

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #:

	3 V/5 <sup>1</sup>	WFL <del>arch</del> datash	IEET	с			<u>DENERGY PR</u>	OJECT		-	LBV #5/SW FL#3
ATE	6/21/1	0 OBSERVE	R ELA			STA		O END	TIME	In	<u>20</u> GPS PAGE / OF
											0 / () TEMP (°F) 69 / 5
			- 1=START: 2=FN	DÍN I		SE S	SW W NW	n/a SPEE		— ۷ ا مە	v: 2/4 High: 4/6 Ave: 2.4/
		I: (CIRCLE ONE; 1		~ `							
				$\bigcirc$	, <u></u> .	1					
Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
1			UWPE								
2			HOUR								······································
3			WSJA								
4			Lebu								
5			RTHA								
6			504					<u> </u>			
7	840	_ 1	.YEWA	?	7	}	Perdu.	WRF	-		
8			ATFL								
9			RWÄ								
10			NRUUS								
11			ANHU								
12			BLPÀ								
13		~	NUWO								
14		1.	4 3 3								

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\* Age: (A) Adult, (SA) Subadult, (F) Fledgling <sup>1</sup> Special Status species and all raptors

2

Comments per observation #: NO GPS - YEWA Put on Map Py hand

7

7

l

Perch

WRF

-

Acuo

SPITO

AMCO

COYE

BH6R

weki

YEWA

LBV/SWFL		LBV#\$/SWFL#3
BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey # STATION: 🏼 🖉 3
DATE: 6/21/10 OBSERVER: ELA	START TIME: 575_ END TIME:	645 GPS PAGE 1 OF 1
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=EN		6) <u>- <del>0</del></u> TEMP (°F) <u>49 146</u>
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END)	N NEE SE S SW W NW	Low: 0 / High: 2 / 2 Ave: 1 / /
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)		

Obs No.	Time	GPS Code	Species	Sex	Age*	# inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
1.		SPTO									
2		LE60									
3		AMCR									· · · · · · · · · · · · · · · · · · ·
4	~				•						
5		WSJA									
6		W BAR	HOWR								· • ·
7 ·		OATI									
8		COHA	**								
9		ACWO	-							<u> </u>	
10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	BCSP	-								
11		505P									
12		YUWO									
13		MOQU									
14		CORAL									
15	-	ANITU									
16											
17											
18											
19											· · · · · · · · · · · · · · · · · · ·
20		· · · ·									· · · · · · · · · · · · · · · · · · ·

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Comments per observation #:

	LBV#\$/SWFL#3
LBV/SWFL	\ Ø
BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT	Survey # STATION:
DATE: 6/21/10 OBSERVER: Enk LAGSte START TIME: 733 END TIME:	800 GPS ─ PAGE / OF /
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END) GOOD FAIR POOR CLOUD COVER (%)	<u> </u>
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W NW n/a SPEED (MPH) I	_ow: 0 / 2 High: 0 / 4 Ave: 0 / <b>4</b> 3.2
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END None) light rain rain light snow snow sleet ha	il other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
1		÷	ATEL								
2	-		OATI								
3			5058								
4	0740		YEWA	1	7.	1	PE	WRS		-	Percher, Singing
5			MODO								
6			WSGT								
7			COFA	-	÷.						
8			Lego								·
9			CATH								
10			STJA								
11			WEBL								• •
12			ALWHAM								
13			14 1								
14											
15											
16											
17	·										
18											
19											
20											

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\* Age: (A) Adult, (SA) Subadult, (F) Fledgling <sup>1</sup> Special Status species and all raptors

<u>D065</u>

LBV#7 WIFE#4

BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey # 1	STATION: BAS G
DATE: 6 July 2010 OBSERVER: Drawing Mich	START TIME: 0517 END TIME:	BOS32 GPSSMIY	PAGE ( 07 /
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=E	END) GOOD FAIR POOR CLOUD COVER (%		P(PF) 48 148
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END)	NNE E SE S SW W NW n/a SPEED (MPH)	Low: 6, 70 High: 3.2	131 Ave: 14 11, 5
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END	lone light rain rain light snow snow sleet h	ail other	

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
1			ATPL								
2			SPTO								
3			5050								
4			CORA								· · · · · · · · · · · · · · · · · · ·
5			SOSP CORA WESJ AUGR HURI								· · · · · · · · · · · · · · · · · · ·
6			HUFI								
7			·								
8		<u> </u>									
9											
10										_	· · · · · · · · · · · · · · · · · · ·
11											
12											
13										_	
14		<u> </u>		-	·						
15									<u>.</u>		
16											
17											
18											
19											
20											

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

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<sup>1</sup> Special Status species and all raptors

Comments per observation #: \_

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LBV#7 WIFL#4

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BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT Survey # STATION: 4
DATE: 7/6/10 OBSERVER: During Multicition START TIME: 0543 END TIME: 0720 GPS SAUL PAGE OF
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END, GOOD FAIR POOR CLOUD COVER (%) & / C TEMP (°F) 43 / 53
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW W W SPEED (MPH) LOW ( High: 12/1, 9 Ave: 3/
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None>light rain rain light snow snow sleet hail other

\_\_\_\_\_

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
			Moro			e.					
2	-		wasp	3		£					
3	·		BALGR	3	al 2	3					
4			WBN4	<u> </u>	264						
5			BABL CAOU?				· · · · ·			-	•
6			CORA AMCR							-+	
7			ARL	(Are	125	تونعه	Acardy				
8			NULO								
9	······································		WREN LANG?								
10			LEGO				····				· · · · · · · · · · · · · · · · · · ·
11		JMCB7-701-	BUSH - BHCO	•			·				
12		J. (-B) 101-	WAST								
13	· · · · · · · · · · · · · · · · · · ·	JMC01470701	WEIKI COHA-		ed.	1	Phy inger	Paperey			
14			CATO					3			
15			HOURS	>			*				
16			<u>COYE</u> 505P								
17			BERR	-							
18		JMCB7-702	,								
19			DATI 3			airte	Olun (Lot.	tid South	is hote	Der	yof Sarwayaraa)
20			Actuo BLPH			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	()our				<u>) ( -                                  </u>
check	c if Auditor	ry only	a.360 : "								

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling MALL '. <sup>1</sup> Special Status species and all raptors MODD :

1 - Singing

LBV#7 WIFLHY

	CAMPO WIND ENERGY PROJECT	Survey #	STATION: <u>*3</u>
DATE: 7/6/10 OBSERVER: 00496	START TIME: 0730 END TIME	: 0637 GPSS	<u>414</u> PAGEL_OF_L
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=E	ND GOOD FAIR POOR CLOUD COVER	(%) <u>&amp; / &amp;</u> (%)	темр (°F) <u>64 / 80</u>
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END)			h: [.4/3.7 AveQG/ 43
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)	lone light rain rain light snow snow sleet	hail_other	

Obs No.TimeGPS CodeSpeciesSex $Age^*$ $\#$ Inds.Activity (1st, 2nd, 3rd)HabitatRaptor/ Non- Raptor1NULLO HUVI:IIIII2LEGO ATE/IIII3SPTO:Cell. $*$ prodeIII	Breeding Status/Behavioral Notes
	X
3 One " and the walk	
SP(8, 100, 1900)	
4 JMCONTO TO COHLA col. + 2+ juns perchade and third colling	
5 GOBNY TO OAT	
6 HOOR DIVE	
7 Sost State	
8 Bar D	Man de Suit Minne de A
9 CORA: (jugicadeals)	
10 NULLOO JEBAGR	
11 LAGO:	
12 ATT · · · · · · · · · · · · · · · · · ·	
13	
14	
15	
16	
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\* Age: (A) Adult, (SA) Subadult, (F) Fledgling <sup>1</sup> Special Status species and all raptors

		LBV#7WIFL#4
BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey # STATION: 🕂 🚬
DATE: 1/6/10 OBSERVER: Doug	chieren Chillek START TIME: END TIME:	0942 GPS 5/ 12/ PAGE _ OF 1
	END FAIR POOR CLOUD COVER (%	
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=EN	D) N HE E SE S SW W NW n/a SPEED (MPH)	Low: 0.7 / 1 High: 57 55 Ave: 27 / 2.0
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)	None light rain rain light snow snow sleet h	ail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
1			WOWP .								
2			LAGO :								
3			Stor)								
4			Haor Fos Pi					<u> </u>			
5			BAGRI	(124	mily	)					
6			1000								
7			1000 1000 1000 1000								
8			ine .								
9										-	
10											·
11											
12											
13	•										
14											
15											
16											
17											
18											
19											
20											
° che	ck if Audito	ory only					10110	ulan Da		~	SARI

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling <sup>1</sup> Special Status species and all raptors

; @

MVayon Dancer ?

DAAT WAG-

Comments per observation #:

		LBV#7 WIFE#4
BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey # STATION: #4.4
DATE: 7/6/10 OBSERVER: Dang	CAMPO WIND ENERGY PROJECT	1003 GPS SM14 PAGE ) OF (
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=1	END) GOOD FAIR POOR CLOUD COVER (9	%) <u>&amp; / \$</u> TEMP (°F) <u>76 / 76</u>
	N NE E SE S SW W NW	
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)	None light rain rain light snow snow sleet	nail other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aa	Breeding Status/Behavioral Notes
1			GATI								
2			OATI YEQOA:								
3			5070 5054								
4			AUSH								
5		· · · ·	haver (	>							
6			N4000								
7		-					*****				
8											
9				** <b>.</b> .							
10											
11											
12											
13	· · ·										
14											
15											
16											
17											
18											
19											
20											

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

DISFL/LBV BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT	SUFL ILRVI
BIRD AREA SEARCH DATASHEET CAMPO WIND ENERGY PROJECT	Survey # 5 8 STATION: 2
DATE: 1610 OBSERVER: BAJER: START TIME: 0941 END TIME: 100	3 GPS X PAGE LOEL
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=END)	10 TEMP (°F)86.6 190.0
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END) N NE E SE S SW (MSNW n/a SPEED (MPH) Low:	<u> 2.0/1.3</u> High: <u>26/3.1</u> Ave: <u>1.6/11.9</u>
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) None light rain rain light snow snow sleet hail oth	ber

Obs No.	1	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	1	aptor/ Von- aptor	Aa	Breeding Status/Behavioral Notes
1	0941		CORA							L	$\geq$	
2			HIJI								$\times$	
3			ATTL									
4			LSEST				·					
5		EMILLID	LA60						-			
6			ONTI									
7		····· ····	BHGR		FL		ii				$\checkmark$	Corf. breeding
8			Blach						_		×	(Dear Break(r)
9	-		GUSH						V	2 I		
10												
11												
12					_						+	
13												
14												
15												
16												
17	-				<u> </u>							· · · · · · · · · · · · · · · · · · ·
18										+		
19						-						
20												

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

	REA SE	Lらい EARCH DATASH	EET	с	AMPO			OJECT			Survey # $58$ STATION: 3
DATE:	7/16	0000000	R: 2MU			STA		END	TIME:	A	30 GPS PAGE   OF
VEATH	HER: VI	SIBILITY (CIRCLE)	ONE; 1=START; 2	2=END)	GÓO	2 D) FA	IR POOR		- VER (%	5)_(	30 gps / page / of / 07 TEMP (°F) 07 / 1857
VIND I	DIRECTI	ON: (CIRCLE ONE;	1=START; 2=EN	) D) N	NE E	SE S	SW 🖗 NW 1	n/a SPEE	D (MPH)	Lov	v: <u>]]</u> High: <u>]]</u> Ave: <u>]]</u> ,
RECI	PITATIO	N: (CIRCLE ONE; 1	=START; 2=END)	None	e ligh	t rain	rain light sno	w snow	sleet h	ail	other
Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
1 C	759		HAND						N		strange location billsize p
2			Acuso						N	X	· ·
3.			RTHA	ν	AFL	3.			R		<u> </u>
4			DATI						N		
5			1.260						1.		
6			CORA							X	
7			SPTO							$\mathbf{\nabla}$	
8		BALLOG	LALOO						14140		
9			PAAI								
10		1	LAZB								
11			ATTEL						40 VPM magic as because highly		
12			HOWR		1			<b>4</b> 1999	ide Nanify Young Lines 14		
13			NUWO						Ý	X	
14		BIACOOG	COLA	U	FL				R		
15			BUAR	****					N	$\times$	
16		· · · · · · · · · · · · · · · · · · ·	111-555						910		
17		 	HUYI								
18			ALT								· · · · · · · · · · · · · · · · · · ·
19			USBNU						nuu alino treasiliata ko		·····
20			503P		92						

\* Age: (A) Aduit, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

SWFL/LBV		
BIRD AREA SEARCH DATASHEET	CAMPO WIND ENERGY PROJECT	Survey # <u>5</u> _ STATION:
DATE: 7/16/10 OBSERVER: BMS, ER:		
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=EN	D) GOOD FAIR POOR CLOUD COVER (%)	0 1 0 TEMP (°F) 63.4 178.
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END)	N NE E SE S SW W NW n/a SPEED (MPH) L	ow: <u> </u>
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END) NO	ne light rain rain light snow snow sleet hai	other

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Aª	Breeding Status/Behavioral Notes
1	0549	RSHA	B" USHLON		NEL	24			R	$\gamma$	ZIFL
2		Renta		•••	A				R		
3		Julie	-						N	$\succ$	
4		- ALLANAL							-	$\geq$	
5		ATTEL							-	¥	· · · ·
6		NUWO								X	
7		LEST								У	
8		1-0 0)								У	
9		NDFL MODD KUBL							of the second second	×	
10		MSOO							-	$\mathbf{\mathbf{y}}$	
11		KUSBL							a management and	X	
12		GAE							1	X	· · · · ·
13		LEDD	<i></i>							X	
14		MALL	· · · · · · · · · · · · · · · · · · ·						a de la construcción e sus de la construcción e sus de la construcción de la construcción de la construcción de		
15		BHGR	:						A selection of the sele		
16		PHA,							Constant of the second s		
17		DARNO							vi animite (eliter		
18		CALT							Ver	X	
19		Hask							ria antipatri tangan di		
20	-	Have BLGR							V.	A	

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Page 2 of 2	Date: 7	610	Observer: BAU -ER
·	. ,	1	

SUP: UBH Survey #: 5 8 Station #:

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Rap No Rap	n-	Aa	Breeding Status/Behavioral Notes
21		·	BENR				-		N	}	$\times$	
22			AGUD									
23			SPTO									
24	A643	BAK BOIL	Brico	$\sim$								flysy
25	<u> </u>	in the second	HUVI									
26			ANHU								X	
27									an share to share the state		X	
28			DLSW						din seguera a seguera			
29											$\times$	
30		BML606	CoHU						a and a stress of		$\times$	
31			0ATN						ana ang a sa panané		$\succ$	
32			COLA						a a sign and the schedule of the de-			
33			CAQU						ماكرت الألك فعاليهم فيصعبه		X	
34			CATL						والمراجع والمحافظة والمحافظة والمحافظة		$\times$	
35			BEPH						ويورجه فقائمه فالتعالي			
36			GRRD		j.				and the second second		$\times$	

\* check if Auditory only \* Age: (A) Adult, (SA) Subadult, (F) Fledgling

<sup>1</sup> Special Status species and all raptors

Acti	vity Codes		Habitats	Sensitive Species Codes												
PE Perched		CCH	Chamise Chaparral	BE	Bald eagle	CO	Cooper's hawk	SA	Sharp-shinned hawk							
so	Soaring	RSC	Red Shank	BL	Bank swallow	FH	Feruginous hawk	SW	Short-eared owl							
FL	Flapping		Chaparral	BS	Belding's Savannah	GS	Grasshopper sparrow	WF	Southwestern willow							
CS	Circle	BSS	Big Sagebrush		sparrow	GV	Gray vireo		flycatcher							
~~	Soaring		Scrub	SG	Bell's sage sparrow	GE	Golden eagle	ຣບ	Summer tanager							
ΗU	Hunting/	SSS	Upper Sonoran	CB	Brown headed cowbird	LG	Lawrence's goldfinch	SH	Swainson's hawk							
	Foraging		Subshrub Scrub	BW	Burrowing owl	BV	Least Bell's vireo	TB	Tricolored blackbird							
от	Other	SOCH	Scrub Oak Chaparral	CC	California condor	LH	Loggerhead shrike	VF	Vermilion flycatcher							
01	04101	CLOW	Coast Live Oak	LA	California horned lark	LO	Long-eared owl	WK	White-tailed kite							
		<b>QLO</b>	Woodland	RP	California rufous-	ME	Merlin	YB	Western yellow-billed							
		SWS	Southern Willow		crowned sparrow	NH	Northern harrier		cuckoo							
		0110	Scrub	CW	Coastal cactus wren	PF	Peregrine falcon	YW	Yellow warbler							
		NNG	Nonnative Grassland	CG	Coastal California gnatcatcher	FA PU	Prairie falcon Purple martin	YC	Yellow-breasted chat							

Comments per observation #:

SUFL/LBV		SWFL LOW
SWFL/LBV BIRD AREA SEARCH DATASHEET		
DATE: 116 10 OBSERVER: BMUER		0538 GPS 8 PAGE OF
WEATHER: VISIBILITY (CIRCLE ONE; 1=START; 2=ER	ND) COOD FAIR POOR CLOUD COVER (9	6) <u>0 / 0</u> TEMP (°F) <u>113 / 715</u>
WIND DIRECTION: (CIRCLE ONE; 1=START; 2=END)	N NE E SE S SW W NW n/a SPEED (MPH)	Low: <u>) / ()</u> High: <u>) / ()</u> Ave: <u>)</u>
PRECIPITATION: (CIRCLE ONE; 1=START; 2=END)		

Obs No.	Time	GPS Code	Species	Sex	Age*	# Inds.	Activity (1st, 2nd, 3rd)	Habitat	Raptor/ Non- Raptor	Дa	Breeding Status/Behavioral Notes
1	0522		SPTO						N	${\mathcal X}$	
2		1.5	ATFL							$\checkmark$	
3			BRSR							X	
4			YWAR							V.	
5			CALT							X	
6			5050						The second se		
7			CALT 538 1.555						and the second second		
8			HOFI						To de Viena jacon		
9			CATE							X	
10			BUSH	1						2	
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20											

\* Age: (A) Adult, (SA) Subadult, (F) Fledgling

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Comments per observation #: