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## **2023 CALIFORNIA SPOTTED OWL SURVEYS**

# Fountain Wind Project Shasta County, California



## Prepared for:

CG Fountain Wind LLC 1001 McKinney, Suite 700 Houston, Texas 77002

## Prepared by: Joel Thompson and Samantha Hanson

Western EcoSystems Technology, Inc. 2725 NW Walnut Boulevard Corvallis, Oregon 97330

November 13, 2023



#### STUDY PARTICIPANTS

Joel Thompson Senior Manager / Sr Reviewer
Samantha Hanson Project Manager / Report Writer
Andrea Chatfield Senior Reviewer
Ryan Voetsch CSO Surveyor
Sarah. Jones CSO Surveyor
Casey. Henry CSO Surveyor

#### REPORT REFERENCE

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#### INTRODUCTION

CG Fountain Wind LLC (Fountain Wind) is proposing to develop the Fountain Wind Project (Project), in Shasta County, California. In 2021, Western EcoSystems Technology, Inc. (WEST) performed California spotted owl (CSO; *Strix occidentalis occidentalis*) surveys at the Project (Thompson and Hanson 2021) as part of pre-construction surveys designed to support Project permitting at the County level. CSO surveys in 2021 documented nesting activity associated with the historical CSO activity center (SHA0046) located on US Forest Service lands east of the Project (Figure 1), but no CSO activity within the Project. In early 2023, the California Energy Commission (CEC) commenced a review of the Project's application for site certification, which includes the review of potential Project impacts under the California Environmental Quality Act (CEQA). At the request of the CEC, Fountain Wind committed to conducting a second year of CSO surveys at the Project to help inform the CEC's CEQA analysis. Fountain Wind and WEST coordinated with the CEC on a CSO survey plan provided to the CEC in June 2023 and revised in July 2023. The following report describes the methods and results of CSO surveys conducted by WEST at the Project in 2023.

#### PROJECT AND SURVEY AREA

The Project is located on private timberlands in central Shasta County, California (Figure 1). The primary land use within the Project and surrounding area is commercial timber production. The dominant vegetation type in the Project Siting Corridors (Figure 1) is early seral mixed coniferous forest (post-fire and unburned), with smaller amounts of mixed montane chaparral, and mixed montane riparian forest/scrub. Dominant overstory species include a combination of white fir (Abies concolor), Douglas fir (Pseudotsuga menziesii), incense cedar (Calocedrus decurrens), ponderosa pine (Pinus ponderosa), sugar pine (P. lambertiana), and California black oak (Quercus kelloggii). Late seral forest is largely absent from the Project Siting Corridors due to both historical wildfire and commercial timber harvest activities (Figure 1). Habitat suitability models (CDFW 2021) for CSO indicate potentially suitable habitats are limited to the eastern and southern portions of the Project; however, much of the predicted suitable spotted owl habitat in or near the Project has been harvested in recent years under one or more approved timber harvest plans (Figure 1).

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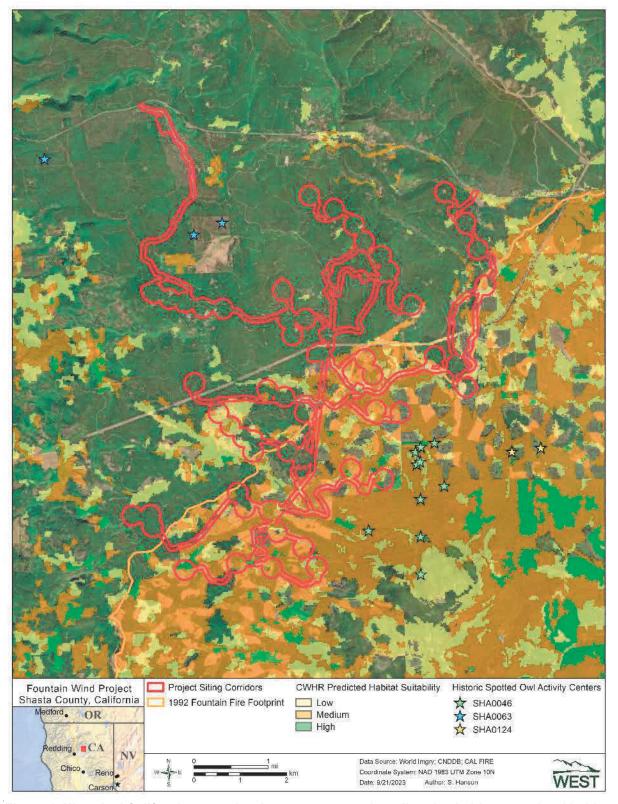


Figure 1. Historical California spotted owl occurrences and predicted suitable spotted owl habitat near the Fountain Wind Project in Shasta County, California, as obtained from the California Natural Diversity Database (CNDDB) and California Wildlife Habitat Relationships (CWHR).

#### **METHODS**

Protocol surveys for CSO were conducted in areas of predicted suitable nesting and roosting habitats located within a 0.25-mile (mi) buffer of the Project Siting Corridors, which include all areas of potential disturbance associated with proposed Project infrastructure (e.g., roads, underground collection, turbines pads, etc.). Field surveys largely aligned with the Protocol for Surveying Proposed Management Activities that may Impact Northern Spotted Owls - 2012 Revision, which is endorsed by the USFWS (Northern Spotted Owl [NSO] Protocol; USFWS 2012); however, the survey area included only a 0.25-mi buffer of disturbance areas, consistent with the 2021 surveys. The 0.25-mi buffer is consistent with NSO survey protocols for disturbance only projects, as well as avoidance buffers identified in the Draft and Final Environmental Impact Reports (EIRs) released by Shasta County during an earlier evaluation of the Project, which found impacts to CSO to be less than significant (Shasta County 2021). The Draft and Final EIRs included a minimization measure that specified a no-impact buffer of 0.25 mi around active CSO nests or unsurveyed CSO habitats during the nesting season. This 0.25-mi buffer is also consistent with Mitigation Measures in the Final EIR for the nearby Hatchet Ridge Wind Project (Shasta County 2007). While the Project will have some impact on forests considered potentially suitable for CSO, these impacts will be disjunct and dispersed along linear rights-of-way, typically consisting of less than five acres in each location (e.g., a turbine pad or road through a small stand) where potentially suitable habitats are impacted. Most of the Project will have no direct impact on CSO habitat and will only result in disturbance (e.g., construction noise). Given that habitat impacts are minimal, disjunct, and dispersed across the Project, and previously prescribed avoidance buffers were 0.25 or less, the 0.25 survey buffer was chosen to define the CSO survey area again in 2023.

CSO survey points were largely confined to the southern and eastern portions of the Project and 0.25-mi buffer, as suitable habitat is lacking in the previously burned areas in the northwestern portion of the Project (Figure 2). Survey stations used in 2023 were consistent with those used in 2021 (Thompson and Hanson 2021), with stations spaced such that they provided full coverage of all targeted potentially suitable habitat patches within the 0.25-mi buffer (Figure 2). While only 30 survey stations were needed to sufficiently cover the current Project and 0.25-mi survey buffer, all 36 survey points surveyed in 2021 (which included a slightly larger Project area) were surveyed again in 2023. This included six points located 0.5 to 1.2 mi south of the Project that extended survey coverage beyond the described 0.25-mi survey buffer along the southern edge of the Project (Figure 2).

CSO surveys were conducted by acoustic playback of spotted owl vocalizations using digital callers (e.g., Cabela's© Outfitter Series Predator Caller by FoxPro) loaded with a variety of spotted owl calls made available by the USFWS. Surveys consisted of a minimum 10-minute survey period at each point, during which calls (typically 3-4 calls) were played, alternated with 1-2-minute-long listening periods. A variety of both male and female calls were used. Each round of surveys (i.e., one complete survey of all 36 points) was separated by at least seven days.

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Due to heavy winter and spring snows, initiation of spotted owl surveys throughout the region was delayed due to access limitations, largely precluding early season surveys in April and May across the region. Access at the Project opened up in late May and six rounds of surveys were conducted during the June-August portion of the spotted owl survey period.

When a CSO response was recorded, a daytime follow-up visit was conducted to attempt to locate the CSO and identify an activity center (e.g., roost or nest). If the initial follow-up survey did not result in confirmation of a CSO activity center, at least two additional surveys were conducted in the area to ensure a total of at least three daytime or nighttime follow-up surveys of the response area. Completion of these additional surveys resulted in more than six visits to some survey points when a detection occurred late in the survey season (e.g., during visits 4–6).

One known historical activity center is present within 0.5 mi of the Project. This activity center (MASTEROWL# SHA0046; CDFW 2023; Figure 1) has consistently been occupied, with data dating back to the late 1980's. Over this time period, the activity center (including the CSO nest detected during the 2021) has moved around the contiguous block of higher quality habitat located just east of the Project in the Lassen National Forest, with the various activity centers approximately 0.4–0.75 mi from the nearest proposed Project disturbance (Figures 1 and 2). In the recent past, this activity center has been monitored by the adjacent landowner (Sierra Pacific Industries [SPI]; CDFW 2023), and SPI staff indicated they would be monitoring this activity center again in 2023. WEST coordinated with SPI regarding this activity center as necessary to minimize disturbance to the resident pair in 2023.

#### **RESULTS**

CSO surveys were conducted between June 19 and September 8, 2023 (Table 1). Detailed survey results by round are presented below, with survey datasheets included as Appendix A.

Table 1. Results of California spotted owl acoustic playback surveys conducted between June 19 and August 29, 2023, at the Fountain Wind Project, Shasta County, California.

Survey Dates	Result
June 19–21, 2023	Female detected, not found during follow-up
June 28-29, 2023	No detections
July 10-11, 2023	No detections
July 19–21, 2023	Pair and single female detected, not found during follow-up
August 2-4, 2023	Female and male detected, not found during follow-up
August 28–29, 2023	No detections
September 8, 2023	No detections

#### Round 1: June 19-21, 2023

A full round of surveys was completed at all points from June 19-21. On June 20, during the first round of surveys, a female CSO was heard from point 29 just south of the Project, its estimated location being outside the 0.25-mi survey buffer and approximately 0.3 mi from the nearest

proposed disturbance (a road right of way) and 0.5 mi south of the nearest proposed turbine (Figure 2). A daytime follow-up visit was conducted the next day (June 21) to relocate the owl and determine its residency/nesting status, however no CSO was detected.

#### Round 2: June 28–29, 2023

A full round of surveys was completed at all points June 28–29, which included the area around the June 20 CSO detection. No CSO were detected during this second round of surveys.

#### Round 3: July 10-11, 2023

A full round of surveys was completed at all points from July 10-11, which again included the area around the June 20 CSO detection. No CSO were detected during this third round of surveys. Western screech owls (*Megascops kennicottii*) were detected from survey points 4, 8, and 10 on July 10 and from point 26 on July 11, and one great horned owl (*Bubo virginianus*) was detected from point 33 on July 11 (Appendix A).

#### Round 4: July 19-21, 2023

A full round of surveys was completed at all points from July 19-21. On July 19, a CSO pair was detected during surveys at point 5 along the eastern edge of the Project (Figure 2). The location of the pair was estimated to be approximately one mile northeast of the 2021 nest associated with activity center SHA0046 and approximately 0.4 mi from the nearest proposed turbine, which is located in an area of young regenerating forest that is not CSO habitat (Figures 1 and 2). The detection was approximately 0.9 mi from the nearest proposed disturbance within potentially suitable CSO habitat, (i.e., mature forest) which was also associated with a road right of way near survey point 6(Figures 1 and 2). A daytime follow-up visit was conducted the following day (July 20); however, no CSO were located. Later in the night of July 20, a female CSO was heard from point 34 during surveys along the southern edge of the Project, its location estimated to be approximately one mi south of the nearest proposed turbine (Figure 2). A daytime follow-up visit was conducted in this area the next day (July 21); however, the CSO was not detected.

On July 19, a western screech owl was detected from point 10 and great horned owls were heard from points 21 and 29 (Appendix A). A western screech owl was also detected on July 20 from point 16 (Appendix A).

#### Round 5: August 2-4, 2023

A full round of surveys was completed at all points from August 2-4. On August 4, a CSO pair was heard from point 29 during surveys along the southern edge of the Project, their location estimated to be outside of the 0.25-mile survey buffer. The detections were near the previous CSO detection from June 20, 0.3–0.7 mi south of the nearest proposed disturbance (a road right of way) and 0.5–0.7 mi south of the nearest proposed turbine. A daytime follow-up visit was conducted the following day (August 5); however, no CSO were detected.

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#### Round 6: August 28-29, 2023

A full round of surveys was completed at all points from August 28-29, inclusive of the area around the August 4 CSO detection. No CSO were detected.

#### Additional Surveys: September 8, 2023

A final round of surveys was conducted on September 8 in the vicinity of the last CSO detection that occurred on August 4. Nighttime surveys were conducted from the four survey points most proximal to the August 4 detection (points 26, 29, 30, and 31; Figure 2). No CSO were detected during the September 8 visit, which was the third survey in the vicinity of the August 4 detection.

#### **DISCUSSION**

In addition to the CSO surveys conducted by WEST, the underlying land management company, FWS Forestry (FWS), also conducted CSO surveys in the vicinity of the Project in 2023. FWS focused their survey efforts on potentially suitable CSO habitat on lands they manage south of the Pit River, excluding the area being surveyed by WEST for the Project (FWS 2023). FWS initiated and completed their surveys during the late nesting season (July–August 2023). WEST coordinated with FWS on surveys in adjacent areas to avoid duplication of efforts and to minimize potential harassment of CSO, as appropriate. FWS recorded CSO detections in the same general area as those documented by WEST to the south of the Project. FWS reported detections of a female CSO on July 14 and July 28, in areas south of point 34 (Figure 2). These two detections were approximately 0.9 and 1.4 mi south of the nearest proposed turbine, respectively. FWS also conducted follow-up visits on these detections and, like WEST's results, failed to find any CSO roost or nest locations.

Given the combined survey results of WEST and FWS in areas south of the Project, the repeated detections of a female CSO and one detection of a pair (male and female) suggests presence of at least one occupied CSO territory outside the southern Project boundary. However, because no CSO were located during follow-up daytime visits, no roost or nest locations were identified and nesting status could not be determined. The central location amidst all the 2023 detections south of the Project is a stand of timber between Little Cow Creek and the North Fork Little Cow Creek to the east of point 34, the entirety of which is outside the 0.25-mi survey boundary associated with the Project (Figure 2).

Similarly, the CSO pair detected east of the Project on July 19 suggests the presence of an occupied territory, likely associated with historical activity centers SHA0046 or SHA0124 (Figures 1 and 2). However, due to the lack of detections during the daytime follow-up survey (i.e., identification of a roost or nest location) or during subsequent acoustic surveys, an activity center could not be established, and nesting status was unknown. The adjacent landowner (SPI) also conducted surveys in the area east of the project and reported only a single male CSO detection during their efforts in 2023. Their one detection was of the banded male CSO associated with activity center SHA0046, which was located approximately 0.5 mi southeast of the 2021 nest

location associated with the activity center (Figure 2). SPI also indicated continued presence of barred owls in the historical CSO activity center SH0124, located further to the east.

Based on the results of surveys conducted in areas of potentially suitability CSO habitat in 2021 and 2023, the likelihood of CSO nesting within the Project or surrounding 0.25-mi buffer appears to be low. The two years of survey data are consistent with the historical data and support an earlier CSO risk assessment prepared for the Project in 2020 (Hutchison and Chatfield 2020), which indicated a low risk of impacts to spotted owls given the generally low habitat suitability across most of the Project, the fragmented nature of the higher quality habitat present within the Project, and the lack of spotted owl activity documented in the Project area in recent years.

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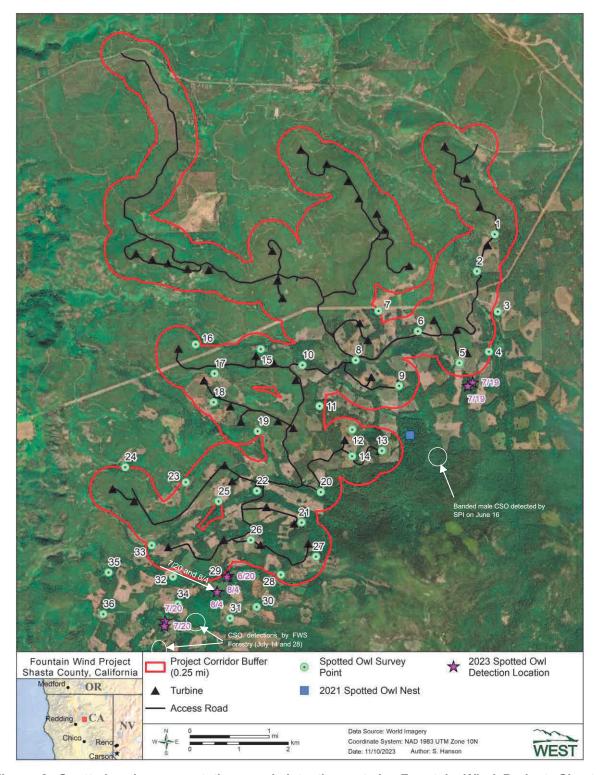


Figure 2. Spotted owl survey stations and detections at the Fountain Wind Project, Shasta County, California. Northern portions of the Project do not include suitable spotted owl nesting habitat and were not surveyed. Areas of CSO detections by the land management company (FWS Forestry) and neighboring landowner (Sierra Pacific Industries [SPI]) are also called out (white circular areas and arrows).

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Appendix A. California Spotted Owl Survey Datasheets for the Fountain Wind Project	ct

Survey Area:	Fountain	Owl Site(s):		Visit#	
Contractor:	West, Inc	Crew: R. Voetsch		2	
Weather (circle):	Clear, Fog, Partly Cloud	y, Overcast, Drizzle, Rain, Snow	Month:	Day: _/9, <del>202</del> 2	5
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Species Codes:

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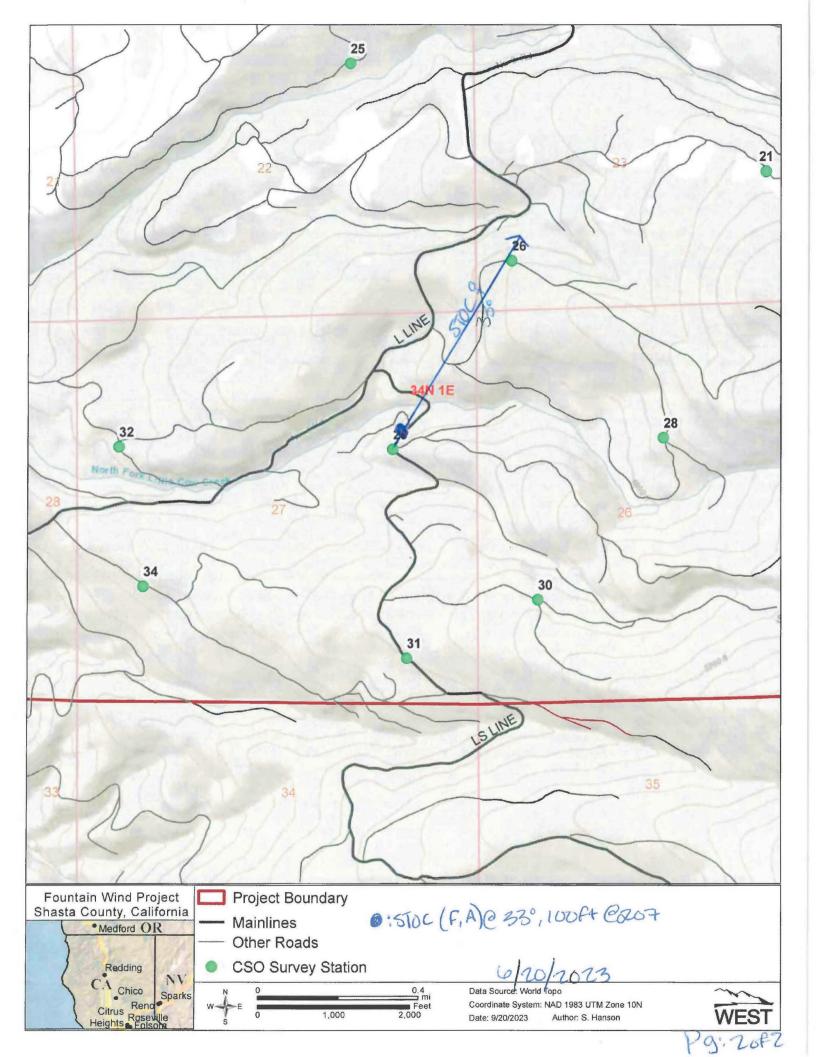
Resp. Codes: N = no owl response e. A = audio response only, V = visual response only, B (or A, V) = both audio and visual response

Sex: M = male, F = female, U = unknown

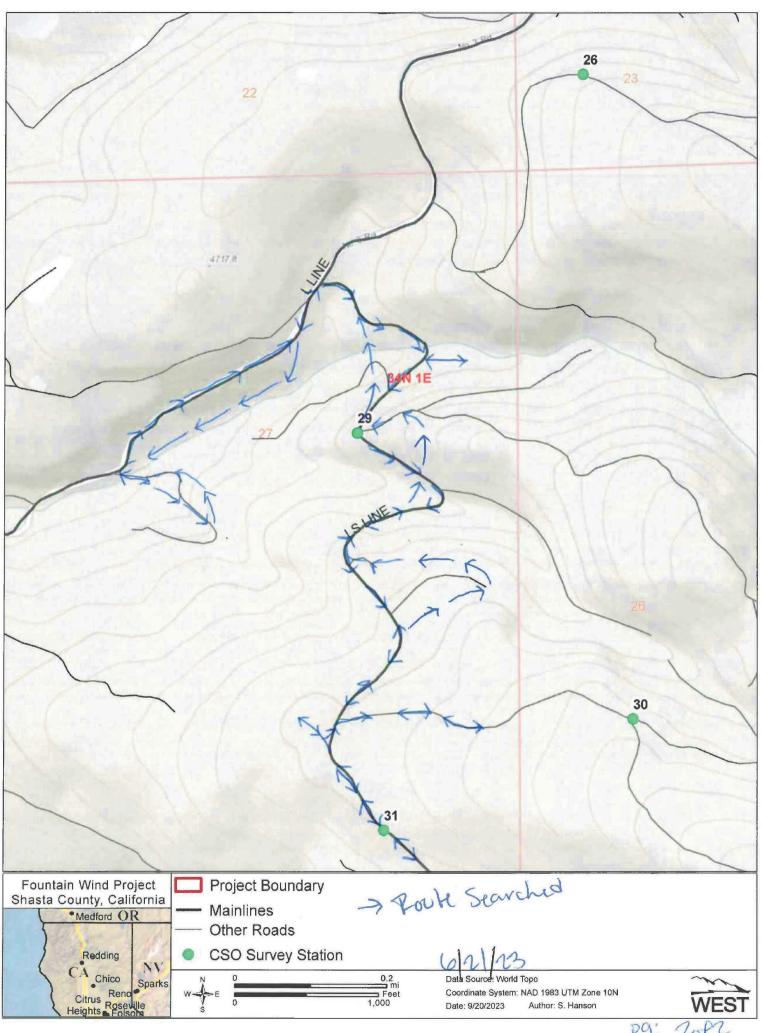
Age: A = adult S = subadult, J = juvenile

Species Codes: Code N = ToC = Northern Spotted Owl, STVA = Stric-species unknown, BUVI = Great Horned Owl, AEAC = Northern Saw-whet Owl, MEKE = Western Screech Owl, GLCA = Northern Pygmy Owl

4 = 4 Note Call (STOC Only), A = Agitated, B = Bark, beg = begging, C = Continuous, W = Whistie, B = 8 Note call (STVA only), Stan = other non-Strix owls



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Wind (circle): Calm (<1	mph), Light air (1-3 mph), Light b	reeze (4-7 mph), Gentle breeze (8-12 mph), Unsuitable (13+ mph)		Method: Elec	ctronic

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Survey Area:	Fountain	Owl Site(s):	Visit # 2
Contractor:	West, Inc	Crew: K. Voetsch	7,77
Weather (circle):	Clear Fog, Partly Cloud		Month: 6 Day: 28, 2023
Wind (circle): Calm	(<1 mph), Light air (1-3 mph), Lig	ht breeze (4-7 mph), Gentle breeze (8-12 mph), Unsuitable (13+ mph)	Method: Electronic

ST#	Hike	Time	Resp.	Sex	Age	Species	Call	Contac	t Time	Bearing	Dist	Lat	Long
Oin	ê	Begin End	code	×	Ф	Opecies	Type(s)	Initial	itial Final (Azimut		(feet)	WGS84-G	PS data only
l	N	20:46 20:56	N						NACO-000				
3	N	21:10 21:20	N										
2	N	21:26 21:36	N								777		
4	N	21:48 21:58	N										2
4 5	N	21:10 21:20	N										X
6		22:26 22:36											
7	-	22:41 22:57											
8	N	22:56 23:06	N										
10	V	23:10 22:20	(1										
10	N	23:30 23:40	k)										
16	N	23:50 24:00	7						N 16 8 805055 N 18 8				
17		00:06 00:16											
18		00:25 00:35											
19	N	00:48 00:58	SN										
24		01:18 01:28											
33		01:36 81:46											
35	N	01:54 02:04	N				18						
	1	02:11 02:21	1 10 10 10 10								Annual Control of the		
	-		•										
							WAR 20 W W W W W W W W W W W W W W W W W W						

All times are in military format (midnight is 2400).

Resp. Codes:

Species Codes:

Survey Area: _	Fountain	Owl Site(s):	Visit #_ Z
Contractor:	West, Inc	Crew: P. Voetsch	7077
Weather (circle	clear Fog, Partly Cl	oudy, Overcast, Drizzle, Rain, Snow	Month: 6 Day: 29, 2022
Wind (circle):	Calm (<1 mph), Light air (1-3 mph),	Light breeze (4-7 mph), Gentle breeze (8-12 mph), Unsuitable (13+ mph)	Method: Electronic

ST#	Ŧ	Time	Resp.	Sex	Age	Species	Call	Contac	t Time	Bearing	Dist	Lat	Long
	前	Begin End	1	_	r.	Openico	Type(s)	Initial	Final	(Azimuth)	(feet)	WGS84-GPS data only	
		20:5021:00	N								and the second		
12		21:09 21:19	N										
14	N	21:29 21:39	N										
12 14 13		21:57 22:07				13 75	a bi	re (	1.1 mi	24 ,	min (	27)	
20	N	22:27 22:37	N										
		22:51 23:01											
		23:11 23:21											
		23:28 23:38						No.					
	N	23:50 24:00	N										
	N	00:22 6:32	N										
27 28	N	03:44 00:54	N										
26		01:00 01:10			-								
29	N	01:21 01:31	N		and the same of th			Processing and the second					
<b>19</b> 30	N	01:43 01:53	N										
31	N	02:01 02:11	N		and the same of th								
32	N	02:26 02:36	N										
		62:44 02:54											
9		3:30 03:40											

Time: All times are in military format (midnight is 2400).

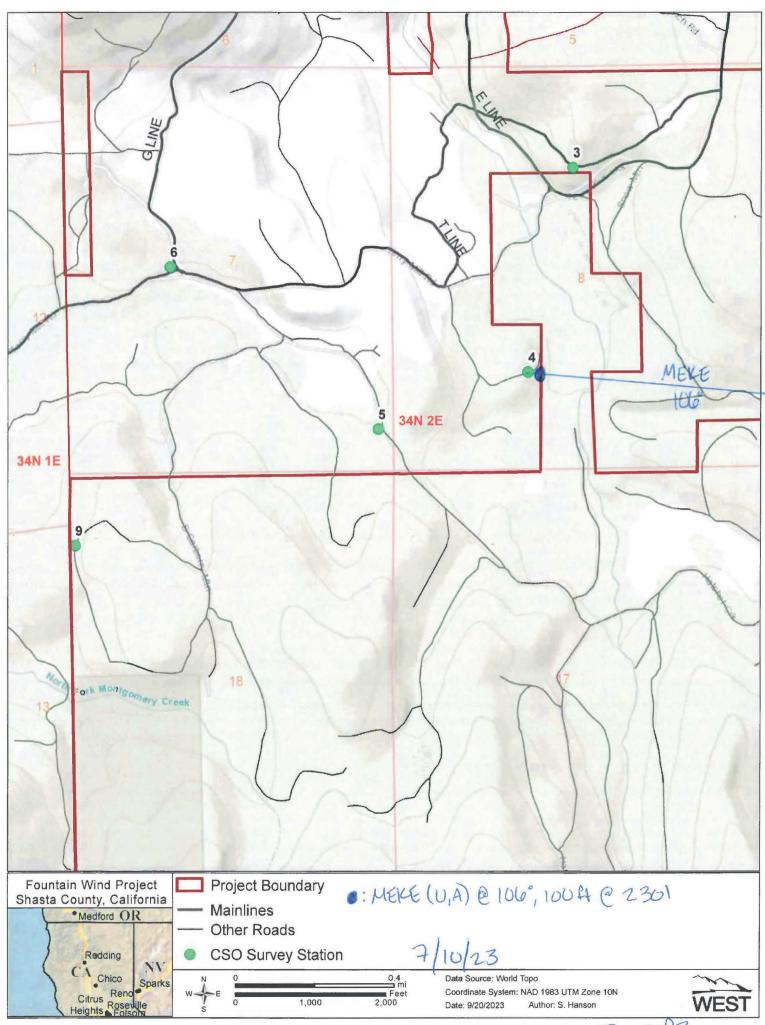
Resp. Codes: Species Codes: Call Type(s): 4 = 4 Note Call (STOC Only), A = Agitated, B = Bark, beg = begging, C = Continuous, W = Whistle, 8 = 8 Note call (STVA only), Stan = other non-Strix owls

Survey Area:	Fountain	Owl Site(s):	Visit # <u>3</u>
Contractor:	West, Inc	Crew: Stones	
Weather (circle):		oudy, Overcast, Drizzle, Rain, Snow	Month: Day: , 2022 Sur
Wind (circle): Calm	(<1 mph), Light air (1-3 mph), L	ight breeze (4-7 mph), Gentle breeze (8-12 mph), Unsuitable (13+ mph)	Method: Electronic

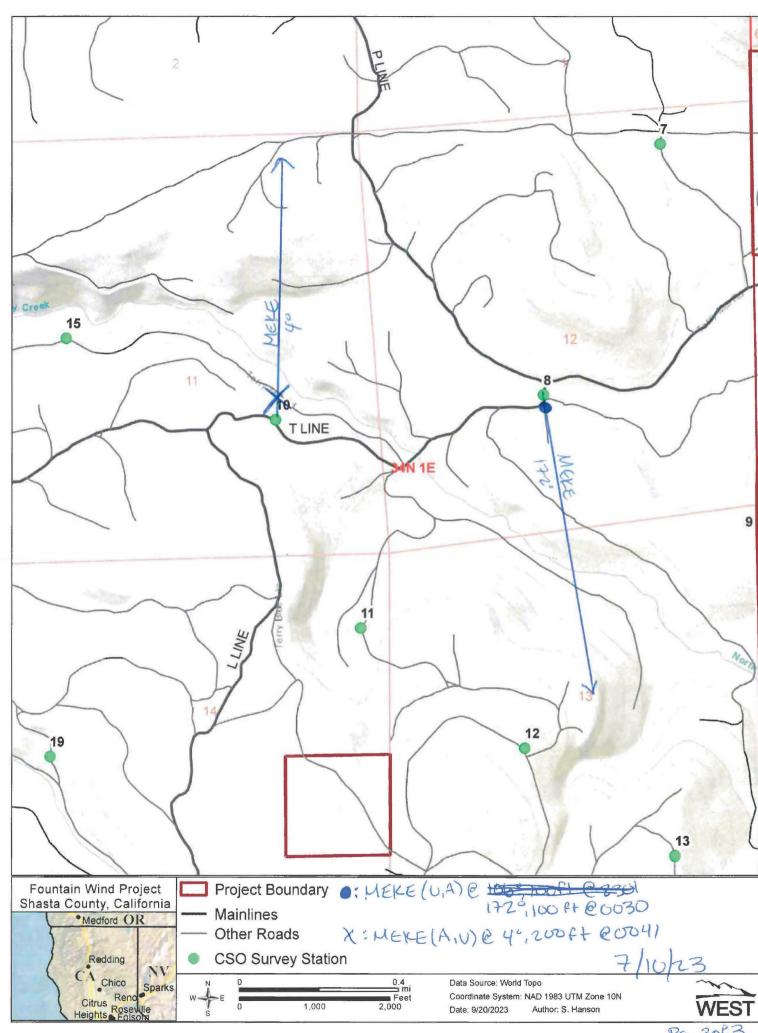
ST#	Ŧ	Ti	me	Resp.	Sex	Age	Species	Call	Conta	ct Time	Bearing	Dist	Lat	Long
31#	K(0)	Begin	End	code	×	ē	Species	Type(s)	Initial	Final	(Azimuth)	(feet)	WGS84-0	GPS data only
)		2147	2157	N										
3		2214	2224	N										
2		1197.8	2244	N										
4		2301	2311	A	U	A	MEKE	Stan	2301	2306	106°	100	40.815671	-121.778133
5		2322	2332	N										
6		2354	0004	N										
7		6009	6019	N										
8		0024	0034	A	U	A	MEKE	Stan	0030	0633	172°	100	40.814287	
10		0037	6647	A	U	A	MEKE	stan	6041	0047	40	200	40.814288	-121.823595
17		0053	0103	N										
15		0109	0119	N										
16		0141	0151	N										
1 11														
	-													

Time: All times are in military format (midnight is 2400).

Resp. Codes: Species Age: A = adult. S = subadult, J = juvenile



Pg 2093



Survey Area:	Fountain	Owl Site(s):	Visit #
Contractor:	West, Inc	Crew: 5 Jones	
Weather (circle):	Clear, Fog, Partly Cloudy,	Overcast, Drizzle, Rain, Snow	Month: Day:, 2022
Wind (circle): Calm	(<1 moh). Light air (1-3 mph). Light bre	eze (4-7 mph). Gentle breeze (8-12 mph) Unsuitable (13+ mph)	Method: Electronic

ST#	I	Ti	me	Resp.	Sex	Age	C	Call	Conta	ct Time	Bearing	Dist	Lat	Long
51#	KB	Begin	End	code	×	je	Species	Type(s)	Initial Final		(Azimuth)	(feet)	WGS84-GPS data only	
3	X	2110	2120	N										
			nile,	22	m	n	RT							
4	-	2135	2145	N										
12	-	2154	2204	N										
11		2209	2219	N										
18		2235	2245	N										
19		2250	2366	N										
24		2327	2357	N										
33		2348	2358	A	u	A	BUVI	Slan	2353	2356	190°	200	40.780525	121.860382
35		0005	0015	N										
b		0020	0036	N										
34		0039	0049	N										
32		0100	0110	N										
29		0116	0126	N										
30		6134	0144	N										
30		0149	6159	N					0217					
26 27		6211	0221	A	h	A	MEXE	Slan	2117	0720	104°	200	40.781791	-121.835814
2A		6231	0241	N										
28		6250	6360	N										
21		6322	0332	N										

Time: All times are in military format (midnight is 2400).

Resp. Codes: Species Codes: Stoc = Northern Species Co Age: A = adult. S = subadult, J = juvenile

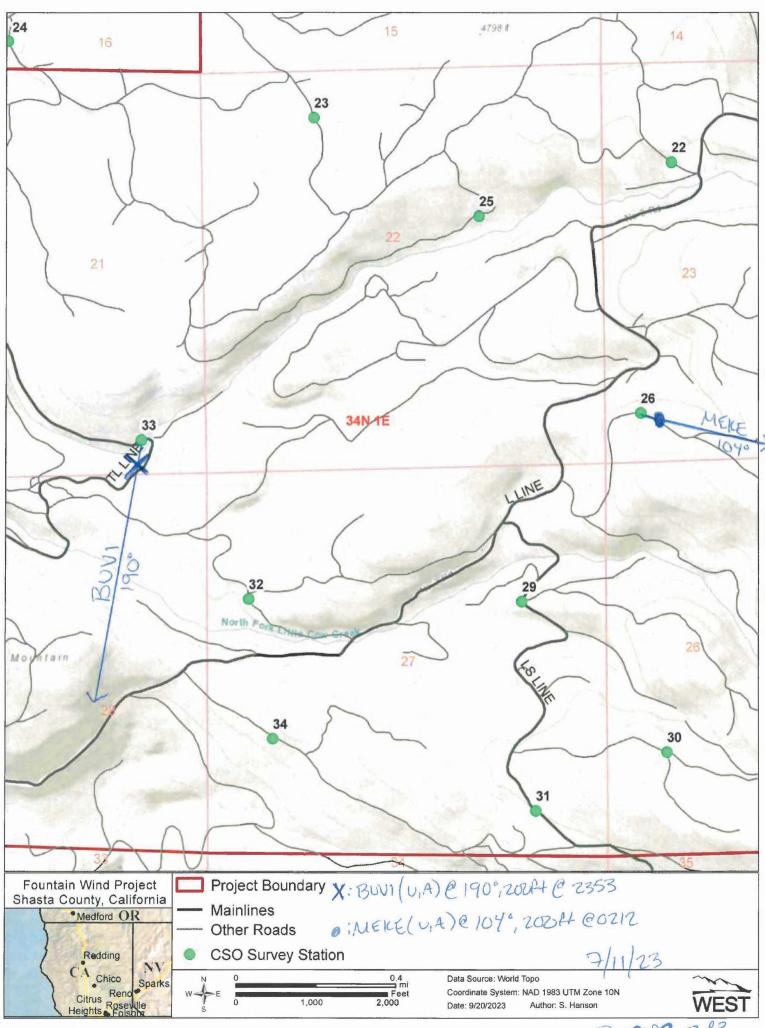
Page Z of 3

Survey Area:			Fount	ain		Ow	l Site(s):			Visit # 3	
Contrac	tor:		West,	Inc		Cre	w:S	Jones			2673
Weather	(circle):		Clear	Fog,	Partly Cloudy	, Overcast, D	rizzle, Rain, Snow				Month: Day:, <del>2022</del>
Wind (ci	ircle): Ca	ılm (<1 <del>mph</del> ),	Light a	air (1-3	mph), Light	breeze (4-7 mpt	n), Gentle breeze (8-1	12 mph), Un	suitable (13	3+ mph)	Method: Electronic
		Time	T	T . T			Cantant Time	Dooring	Dist	1 -4	Laur
CT#	王	Time	Resp.	Se	Species	Call	Contact Time	Bearing	Dist	Lat	Long

OT4	I	Ti	me	Resp.	S	A	Species	Call	Contac	t Time	Bearing	Dist	Lat	Long
ST#	Hike	Begin	End	code	×	e	Species	Type(s)	Initial	Final	(Azimuth)	(feet)	WGS84-G	PS data only
2		0351	0461	N										
15		0411	0421	N						***************************************				
3			0443	N										
20		0564		N										
9			0545	N										
1		- 333	03(3					***************************************						
													Canada and a state of the control	
					<del> </del>									
	-													
					-	-								
					-									
		Parameter		-										
		and a property of the second o												
					of article desired in the second									
****************								V 1805 1744 88 40 40 40 40 40 40 40 40 40 40 40 40 40						
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		an tank many			and the same of th									
0.	1	All times are in	1										l	

Time: All times are in military format (midnight is 2400).

Resp. Codes: Species Codes: Stock Stock



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Page of The
Vicit # 4

Survey Area:	Fountain	Owl Site(s):	Visit #
Contractor:	West, Inc	Crew: R. Voetsch	
Weather (circle):		dy, Overcast, Drizzle, Rain, Snow	Month: 7 Day: 19, 2022
Wind (circle): Calm (	<1 mph), Light air (1-3 mph), Lig	iht breeze (4-7 mph), Gentle breeze (8-12 mph), Unsuitable (13+ mp	Method: Electronic

ST#	Tike	Ti	me	Resp.	Sex	Age	Species	Call	Contac	t Time	Bearing	Dist	Lat	Long
31#	Ko	Begin End		code	×	e	Openies	Type(s)	Initial	Final	(Azimuth)	(feet)	WGS84-0	GPS data only
1	N	20136	20.46	N										
3	N	21:01	21:11	N										
2	N	21:18	21:28	N										
4	N	21.44	21.54	N										
		22:07	22:18	A	F	A	STOC	B. 4, A	22:15	22:18	148°	1500ft	40.810195	-121.782551
1				A	M	A	STOC	4,CA	22:15	22:18	148°	1500ft	40.810185	-121.782551
1							Heard	again fr				28.4		
				A	F	A	STOL	A, C	22:30		1880		40.809528	-121.783769
1				A	M	A	STUC	4	22:30	22:31	1880	700S+	40.809528	-121.783709
7	N	23:06	23:16	N										
8	N	23:29	23.39	N										
10	N	23:43	23:53	A	U	A	MEKE	STAN	23:50	23:53	130	10008+	40.816500	-121.823593
22	N	00'04	00:14	N										
25	N	00:25	00:35	N										
	N	00:46	00:56	N										
21	N	01-21	01:31	A	M	A	BUVI	STAN	01:30	01:31	110	100051	40:787649	-121.824414
27	N	01-51	02:01	N										
28	N	02:11	02:21	N										
26	N	02:26	02:36	N										
31	N	02:47	02:57	N		- The second sec								

Time: All times are in military format (midnight is 2460).

Resp. Codes: Species Codes: Species Codes: Call Type(s):

All times are in military format (midnight is 2460).

N = no owl response e. A = audio response only, V = visual response only, B (or A, V) = both audio and visual response

Sex: M = male, F = female, U = unknown

Age: A = adult. S = subadult, J = juvenile

Species Codes: Codes: Species Codes: Code N, STVA = Strix-species unknown, BUVI = Great Horned Owl, AEAC = Northern Saw-whet Owl, MEKE = Western Screech Owl, GLCA = Northern Pygmy Owl

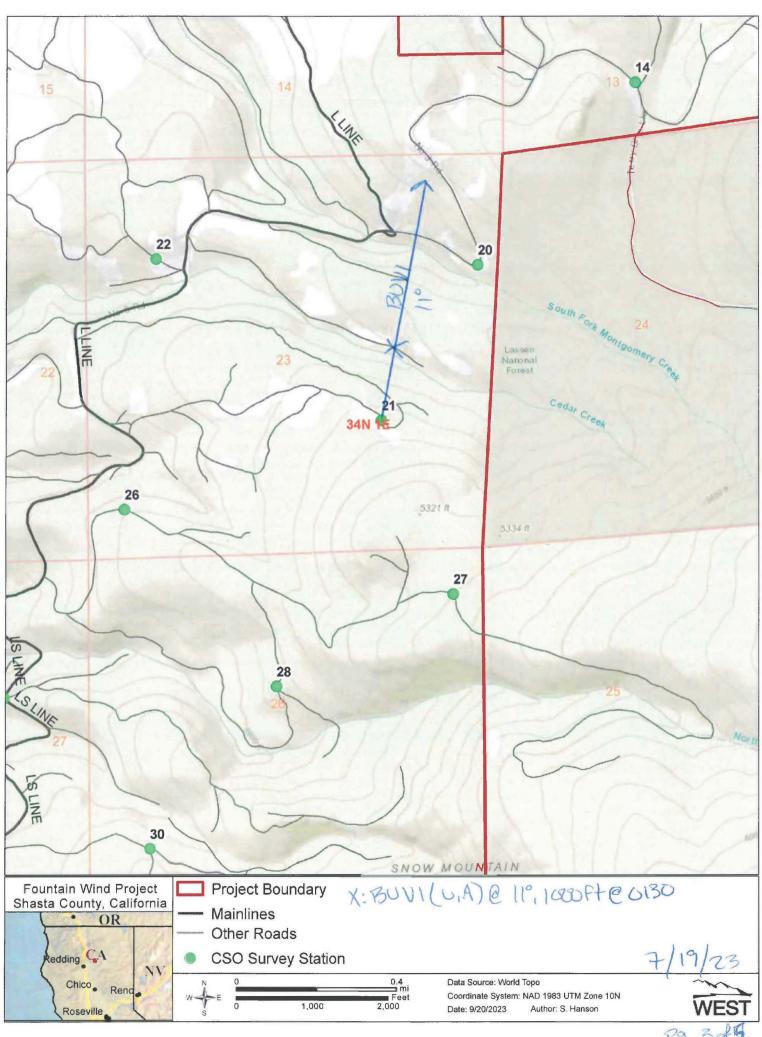
Let A = 4 Note Call (STOC Only), A = Agitated, B = Bark, beg = begging, C = Continuous, W = Whistle, 8 = 8 Note call (STVA only), Stan = other non-Strix owls

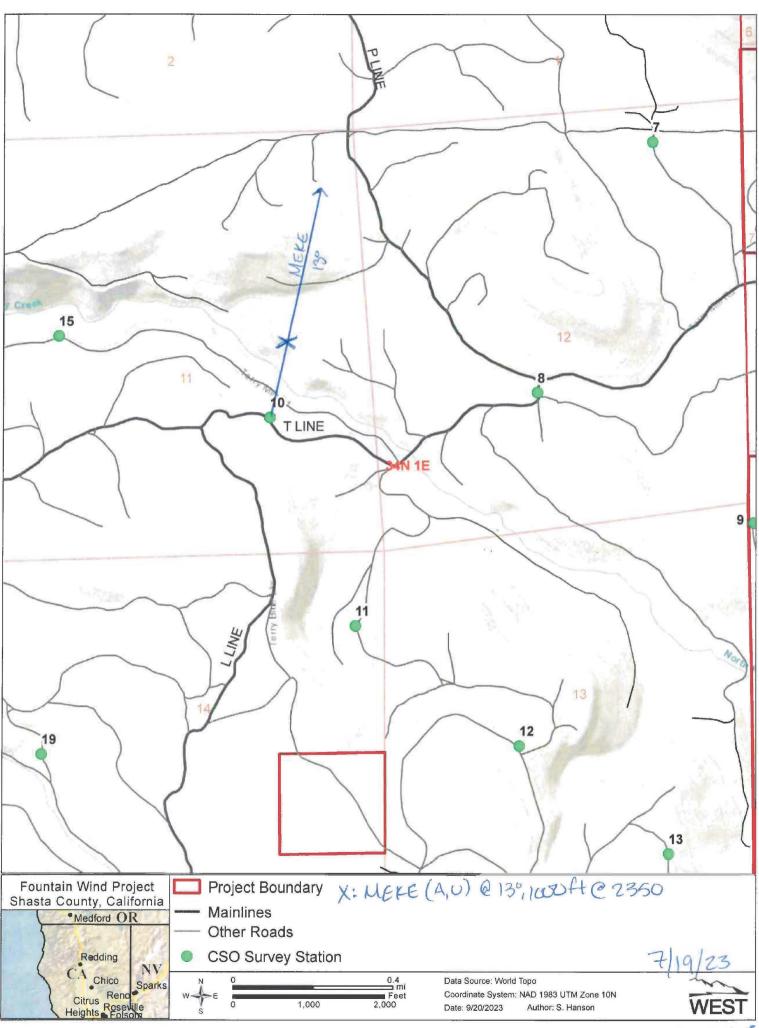
Survey Area:	Fountain	Owl Site(s):	Visit # <sup>2</sup> /
Contractor:	West, Inc	Crew: R. Voetsch	
Weather (circle):	Clear, Fog, Partly	Cloudy, Overcast, Drizzle, Rain, Snow	Month: 7 Day: 19, 2022
Wind (circle): Ca	ılm (<1 mph), Light air (1-3 mph),	Light breeze (4-7 mph), Gentle breeze (8-12 mph), Unsuitable (13+ mph)	Method: Electronic

ST#	Tike	Ti	me	Resp.	Sex	Age	Species	Call	Conta	ct Time	Bearing	Dist	Lat	Long
		Begin	End		×	ge	Species	Type(s)	Initial	Final	(Azimuth)	(feet)	WGS84-G	PS data only
30	N	03:03	03.13	N										
<b>30</b> 29	N	83:20	03:30	A	M	A	BUVI	STAN	03:24	03:28	331°	i200ft	40.777525	-121.845285
W 101 11														
v. v. or here in														
	1													

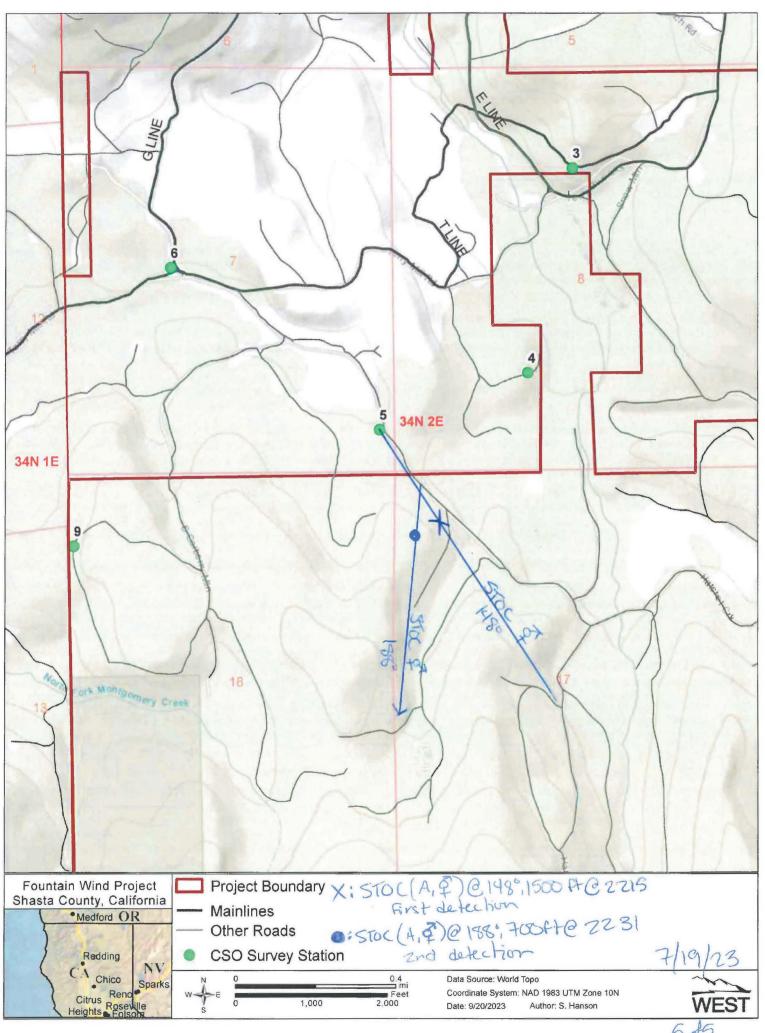
Time: All times are in military format (midnight is 2400).

Resp. Codes: Species Age: A = adult. S = subadult, J = juvenile



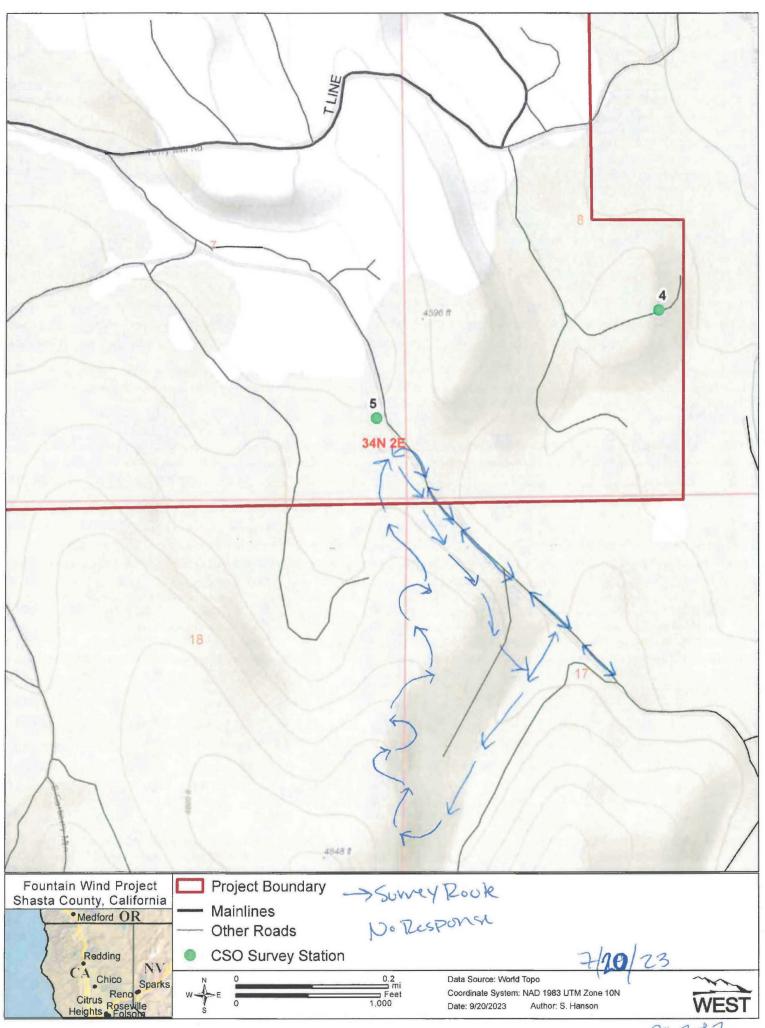


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	isit#_	4	_ Sta	of T	notes atta	Spo	otte	d C	)wl D	ay-	Visit F	orm	Tatal Tim	178	(minutes)
			Fountain			Lo	ocat	ion:		2 .1	1 1		Month:	Day:	<u>20</u> , 2021
C	ontracto	r: <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	EST, Inc					С	rew:	C <sub>1</sub> V	oetsch				
V	Veather (	code):	Clear				8				Spotte			Other (spe	cify):
V	Vind (cod	de): (	alm		In	itial Audi	0		Male	,	emale	Juvi #1	Juvi #2	1	
S	urvey M	ethod:	Electronic			udio Typ	8.0			-					
						itial Visu									
	Y		51 - STATE		Fir	nal Conta									
	Mouse #	Out	TIME Taken	Fa	ite	O' Sex	WL Ag	ge	Behav Cod		Notes				
	Į														
									302° 00000 - 000000000		VIII. VIII. JANUARI VIII. VIII	N. N. H. W. L.	The State of the S		
								\							
													1 NO TOURS (NO TOURS		
										16 160 3			e or other or members. In line,	en amuno es a ses as m	in to the property of the property and property to
L	= leaves wi	th mouse	& relocated v	v/o mo	use	X = lea	ves	with I	mouse &	not	relocated	T = takes n	rver leaves nouse to anoth uvenile or fled	ner owl O =	nouse to nest explain in notes nknown
	_	. 1		ĭ			WL			T L	OCATIO	ONS			
- 1	Spec	ies	Sex/Age	7.1	То	wn		Rai	nge	ī	Sect	1	14	1/16	1/64
							+							······································	
		D.I.	4												
		Nes	it			10-10-10-10-10-10-10-10-10-10-10-10-10-1		BAI	NDING	ST	ATUS				
	Sex/Ag		Observation Type					Left	Leg				R	ight Leg	8
														, <u>, , , , , , , , , , , , , , , , , , </u>	
							_	_							
ŀ		_		-											
Ty	pe Codes:	VN=v	isual, no band	s read	UI	B=visual	, unb	ande	d VB	=colc	or bands r	ead, bird free	CB=band	s read, bird ir	n hand
			rst banding			R=band i	0.70					plete read			
N	OTES:	Folla	n-nb 1	for	2	5T0	1	F	pair	di	elec	tion e	on 7/19	1/2023	1
		$N_0$	Respor	150	(										



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	Vu	HLC	888	8.70			u	

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Survey Area:	Fountain	Owl Site(s):		Visit#
Contractor:	West, Inc_	Crew: KNoetsch		7672
Weather (circle):	Clear, Fog, Partly Cloud	, Overcast, Drizzle, Rain, Snow	Month:/	Day: 20_, 2022
Wind (circle): Calr	n (<1 mph). Light air (1-3 mph) Ligh	t breeze (4-7 mph) Gentle breeze (8-12 mph) Unsuit	able (13+ mph)	Method: Electronic

ST#	Ŧ	Ti	Time Resp. Spec		Species	Call	Contac	ct Time	Bearing	Dist	Lat	Long		
31#	ke	Begin	End	code	×	Je	Species	Type(s)	Initial	Final	(Azimuth)	(feet)	WGS84-G	PS data only
9	N	20:39	20:49	2										
6	N	21:03	2113	N										
15	N	21:28	21:38	N		-								
16	N	21:49	21:59	A	u	A	MEKE	STAN	21:50	21:59	1540	Zoust	40.817414	-121.848741
17	N	22:07	22:17	N				100						
19	N	22:26	22:36	N										
18	N	22:43	22:53	N										
24	N	23:05	23/5	N										
33	N	23:23	23:33	N										
35	N	23.38	23.48	N										
36	N	23:55	00:05	N										
34	N	00:13	00:36	A	F	A	STOC	AS	00:23	00:36	217e	800ft	40.767221	-121,857458
1							Prote is	.Us sound	d Sur	Her a	ung th	ian ini	tial A calls (Approx,	1500St in sameding
V														Hempt closer detection
1		00-48	00:51	A	F	A	STOC		00148	0051	2310	400st	40.767221	-121,857458
						1	Second	detection	1	F STOC	From	n (596	607/45/3661)	
1		01-05	01:26	A	F		STOC	4	01:05	01.26	2400		40.766035	-121.857610
1	1					个	Third.	detection		1	From	15966	85/4513572)	
\		01.38	01-58	A	F	1	STOC	4		01:48	1 12 -12		40,767221	-121.857458
	_					1		defection				1	53/4513718)	

Time: All times are in military format (midnight is 2408).

Resp. Codes:

Resp. Codes:

N = no owi response, A = audio response only, V = visual response only, B (or A, V) = both audio and visual response

Sex: M = male, F = female, U = unknown

Age: A = adult. S = subadult, J = juvenile

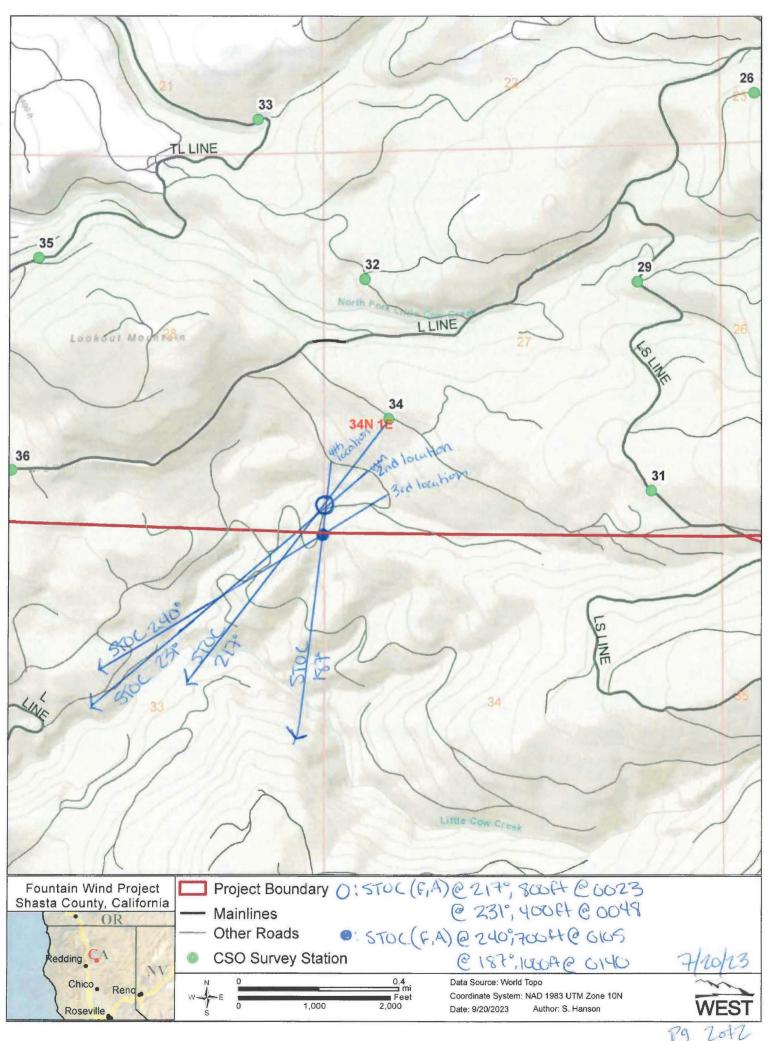
Species Codes:

Species Codes:

Call Type(s):

4 = 4 Note Call (STOC Only), A = Agitated, B = Barred Owl, STRIX = Strix-species unknown, BUVI = Great Horned Owl, AEAC = Northern Saw-whet Owl, MEKE = Western Screech Owl, GLCA = Northern Pygmy Owl

4 = 4 Note Call (STOC Only), A = Agitated, B = Barrk, beg = begging, C = Continuous, W = Whistle, 8 = 8 Note call (STVA only), Stan = other non-Strix owls



Page / of 2 **Fountain ACS** Spotted Owl Day-Visit Form Visit # 4 Start Time 18.29 Total Time 122 (minutes) End Time 20:31 Month: 7 Day: 2(, 2023 Survey Area: Fountain Location: Crew: R. Joetsch Contractor: WEST, Inc. Spotted owls Other (specify): Weather (code): Ceny Male Female Juvi #1 Juvi #2 Wind (code): Calm Initial Audio Survey Method: Electronic Audio Type Initial Visual Final Contact Mouse TIME OWL Behavior Notes 丝 Out Taken Fate Sex Age Code Behavior Codes: E = eats C = caches I = ignores D = drops then ignores H = holds until observer leaves N = takes mouse to nest L = leaves with mouse & relocated w/o mouse X = leaves with mouse & not relocated T = takes mouse to another owl O = explain in notes M = male F = female U = unknown Age Codes: A = adult S = subadult J = juvenile or fledgling U = unknown **OWL AND NEST LOCATIONS Species** Sex/Age Town Range 1/16 1/64 Nest **BANDING STATUS** Observation Sex/Age Left Leq Right Leg Type

NOTES:

**BB**=first banding

Type Codes:

VN=visual, no bands read UB=visual, unbanded

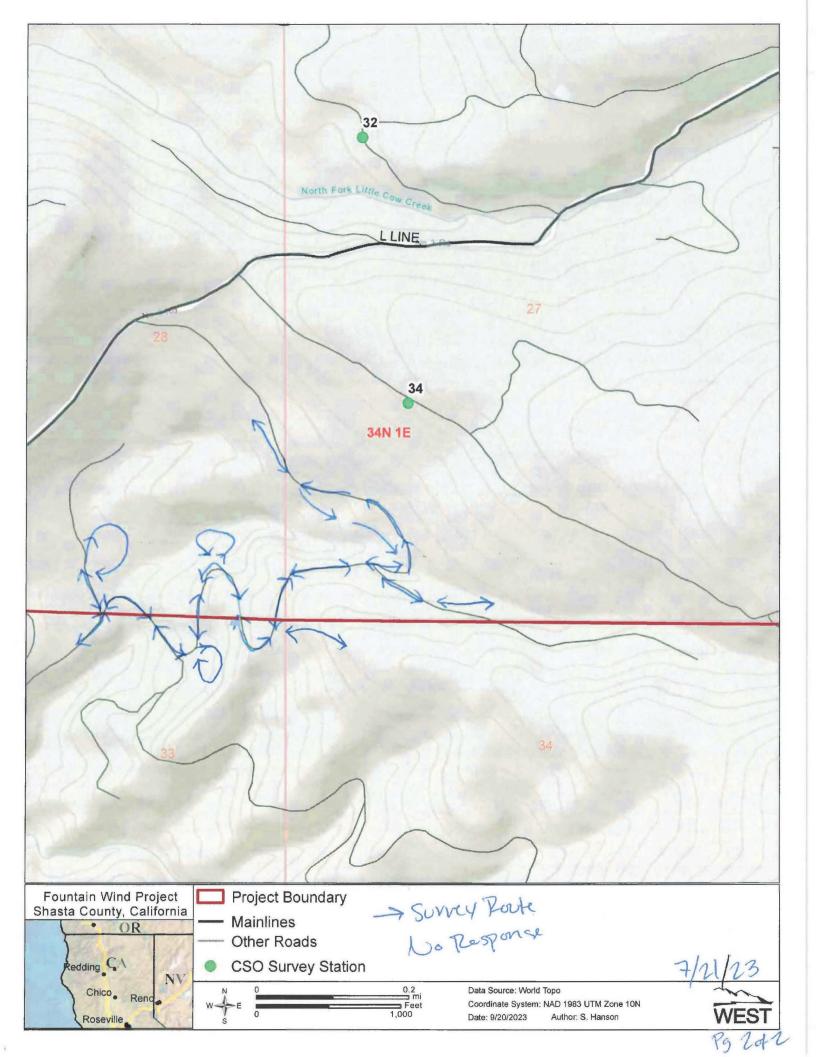
BR=band replaced

Follow-up for F STOC defection from 7/20/23 night survey at pt 34.
No Response

VB=color bands read, bird free

VI=banded, incomplete read

CB=bands read, bird in hand



FOU	ntain	NSO	Form
1 00			

Survey Area:	Fountain	Owl Site(s):		Visit#4
Contractor:	West, Inc	Crew: R. Voetsch		2.0
Veather (circle):	Clean, Fog,	Partly Cloudy, Overcast, Drizzle, Rain, Snow	Month:	Day: 21, 2022
Vind (circle): Calm	n (<1 mph), (Light air (1-	mph), Light breeze (4-7 mph), Gentle breeze (8-12 mph), Unsuitable (13+ mph)		Method: Electronic

ST#	Hike	Tii Begin	me End	Resp.	Sex	Age	Species	Call Type(s)	Conta Initial	ct Time Final	Bearing (Azimuth)	Dist (feet)	Lat	Long
2	1							-71-1-7	IIIIIdi	rillal	(Azimuth)	(reet)	WGS84-GPS dat	a only
2	N	20:41	20-51	N										U U U U U U U U U U U U U U U U U U U
		21:09		N										
1	N	21:27	21:37	N										
3	1	21:51		N			13 %	a hike	. 71.1	14: 73	4010	RT)		
							13 0	a nire	- ( // .	120	Spirel	~ /		
			22:30											
	N	22-38	22:48	$\sim$										
				-										
				-						-				
								ć.						
No. 11									5. 5 X					7 AN A A
					-									
										-				

Time: All times are in military format (midnight is 2400).

Resp. Codes: Species Codes: Species Codes: Species Codes: Species Codes: Species Codes: Call Type(s): 4 = 4 Note Call (STOC Only), A = Agitated, B = Bark, beg = begging, C = Continuous, W = Whistie, 8 = 8 Note call (STVA only), Stan = other non-Strix owls

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Survey Area:	Fountain	Owl Site(s):		Visit # <u>5</u>
Contractor:	West, Inc	Crew:CHenru	1000 11 11 1000 12 1000 12 1000 12 1000 10 100	2073
Weather (circle)	: Clear Fog Partly Cloudy	Overcast, Drizzle, Rain, Snow	Month:_	8 Day:, <del>2022</del>
Wind (circle):	Calm (<1 mph), Light air (1-3 mph), Light	breeze (4-7 mph). Gentle breeze (8-12 mph). U	insuitable (13+ mph)	Method: Electronic

OT#	Ī	Time	Resp.	တ	Age		Call	Contac	t Time	Bearing	Dist	Lat	Long
ST#	Ks.	Begin End	Resp.	Xe	ge	Species	Type(s)	Initial	Final	(Azimuth)	(feet)	WGS84-G	PS data only
1		2132 2142	N										
2		2147 2157									,		
3		2702 2212											
4		2334 2344											
6		2351 0001	1										
7		0008 0018		1									
8		0022 0632											
15		6640 acto											
16		0102 0112											0 100 x x x 1000 2000 1998 100 0 1000
17		0119 0129	1									***	
10	4:	61360146											
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	1			1	2000								
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Time: All times are in military format (midnight is 2400).

Resp. Codes:

Resp. Codes:

Species Codes:

Sex: M = male, F = female, U = unknown

Age: A = adult. S = subadult, J = juvenile

Species Codes:

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Sex: M = male, F = female, U = unknown

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Sex: M = male, F = female, U = unknown

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Species Codes:

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Species Codes:

Species Codes:

Sex: M = male, F = female, U = unknown

Age: A = adult. S = subadult, J = juvenile

Species Codes:

Specie

Page / of 2

Survey Area:	Fountain	Owl Site(s):			Visit#5	)
Contractor:	West, Inc	Crew: (, Henry				
Veather (circle):	Clear, Fog, Partly Cloudy	, Overcast, Drizzle, Rain, Snow		Month: 3	_ Day: <u> </u> , 2	2022
Vind (circle): Ca	alm (<1 mph), Light air (1-3 mph), Light	breeze (4-7 mph), Gentle breeze (8-12 mp	h), Unsuitable (13+ mph)		Method: Electro	onic

ST#	1	Time	Resp	Se	Age	Sanaina <sup>3</sup>	Call	Contac	t Time	Bearing	Dist	Lat	Long
51#	0	Begin End	code	×	Je .	Species	Type(s)	Initial	Final	(Azimuth)	(feet)	WGS84-G	PS data only
5		2024 2034											
9		2045 2055	1					,					
11		2112 2120					-						
12		2129 2135	1										
14		2146 2156									0.000000		
13		2211 222	1						* **C **				
20		2736 224	0								****		
22		2255 230	5				:						
25		1312 322											
23		2329 2339	3		10	A A			W. S.				
18		0007 COF				1							
19		0020 0030					N						
24		0057 010-	- 1										
33		0117 012											
35		0132 0142											
36		0148 0155		2 2 2500			The state and	DOMESTIC: 1					
34		0204 6214					39						
34	-	0230 0241											
21		0318 0320	6 J										
							1						

Time: All times are in military format (midnight is 2400).

Resp. Codes: N = no owl response, A = audio response only, V = visual response only, B (or A, V) = both audio and visual response

Sex: M = male, F = female, U = unknown

Age: A = adult. S = subadult, J = juvenile

Species Codes: Species Codes: Species Codes: Species Codes: A = adult. S = subadult, J = juvenile

Species Codes: Species Codes: Species Codes: Species Codes: A = adult. S = subadult, J = juvenile

Species Codes: Species Codes

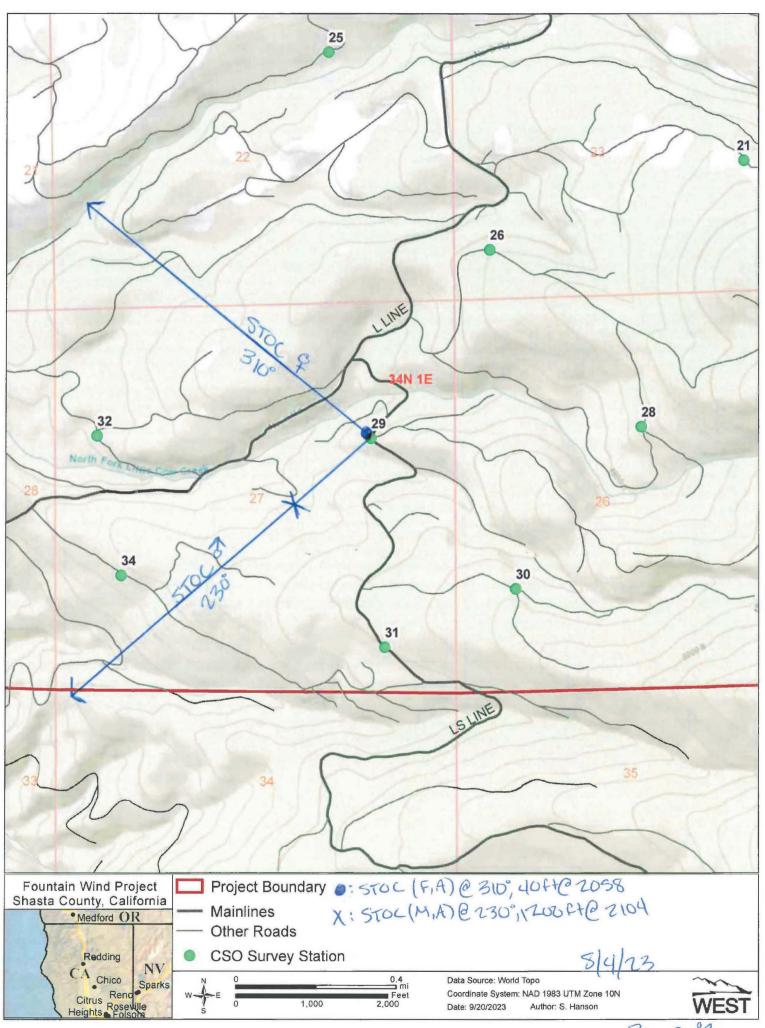
Survey Area: \_ **Fountain** Owl Site(s): West, Inc Contractor: Crew: Clear, Fog, Partly Cloudy, Overcast, Drizzle, Rain, Snow Weather (circle): Wind (circle): Calm (<1 mph), Light air (1-3 mph), Light breeze (4-7 mph), Gentle breeze (8-12 mph), Unsuitable (13+ mph) Method: Electronic

	7	Tir	me	Rosn	S	>		Call	Contac	ct Time	Bearing	Dist	Lat	Long
ST#	美田	Begin	End	Resp.	Sex	Age	Species	Type(s)	Initial	Final	(Azimuth)	(feet)		PS data only
32		2020	2030	N										
30		2041	2051	N			7.8							
29		2056	2118	A	F	A	STOC	4,A	2058	2112	310	40	40,775085	-121.842485
				A	M	A	STOC	4,A	2104	2108	230	1200		-121.844882
27		2131	2141	N										
28		2157	7707	1										
26			un	Y	8									
								368						
								7.50						
							2	30000 1. 11.70.71						
*														
				1										
							0 6770000							
-														
													0.000 aug	

All times are in military format (midnight is 2400).

Resp. Codes:

Species Codes: Age: A = adult. S = subadult, J = juvenile



P9 222

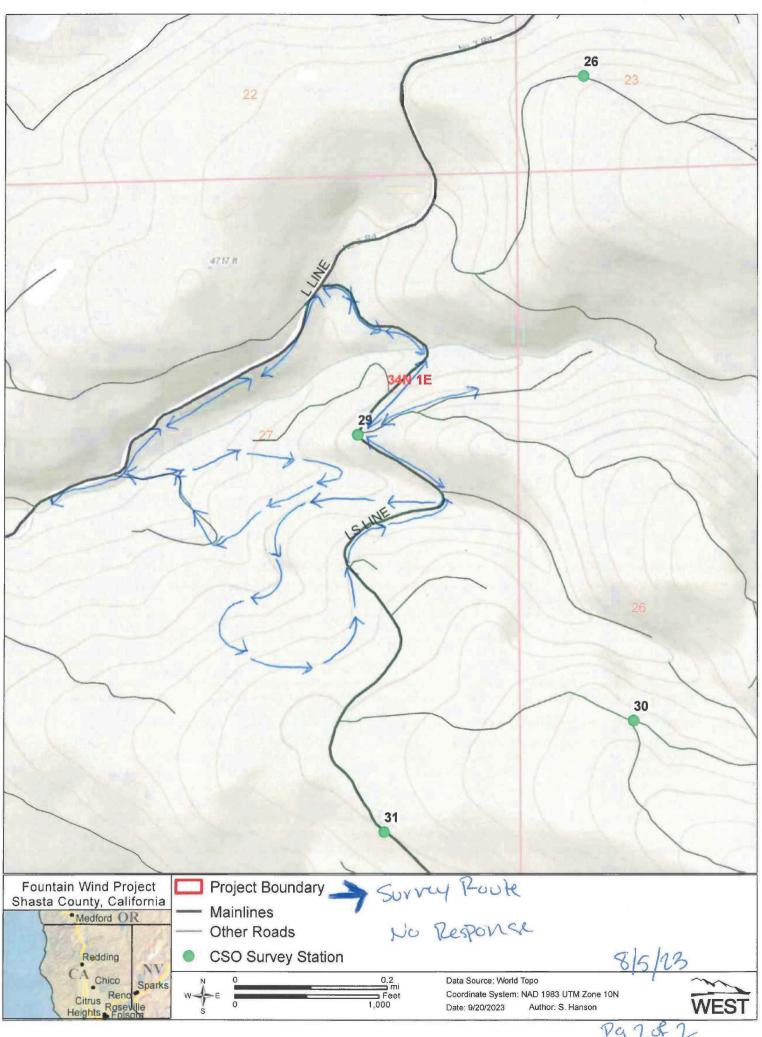
# Fountain ACS

Spotted Owl Day-Visit Form

Dago	C NAMES OF	of	2
Page		OI	-

Visit#	5	_ Star	t Tir	S me	pot 46	ted (	Owl Da End	y-V Tir	/isit F ne 🌈	orm 348	Total	Time	e 122	(mi	inutes)
Survey Ar													Day:		
Contracto							Crew:								and of
Weather (	code):	lear					Male		Spotte		Juvi #	<b>#2</b>	Other (speci	fy):	
Survey Me			ŀ	Initial A	0.90.090	-					1				
				Initial V Final Co	Isual								A Section 1		\
Mouse #	Out	TIME Taken	Fat	e Se	OWI	L Age	Behavi Code		Notes						
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				4	-	/							7.20		
			<del></del>		-						<del></del>			rames to pr	12 No. 17 No.
	h mouse	e ats C = cac & relocated w/ e F = female	o mou	ise X =	leave Ag	s with e Cod	mouse & r	not re adult	slocated S = su	T = takes badult J =	mouse to a	nother		plain ir	
Speci	es	Sex/Age	1	Town	OW		ID NEST	LO	CATIC Sect		1/4		1/16	1	64
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Sex/Age		bservation Type					NDING : Leg	STA	TUS			Rig	ht Leg		
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		N OP	on	n St	#	25	7								

No Response



Survey Area:	Fountain	Owl Site(s):		Visit# 6
Contractor:	West, Inc	Crew: R. Voetsch		
Weather (circle):	Clear Fog, Partly Clou	udy, Overcast, Drizzle, Rain, Snow	Month:	Day: <u>28</u> , 2022
Wind (circle): Calm (<	1 mph), Light air (1-3 mph), Li	th breeze (4-7 mph) Gentle breeze (8-12 mph), Unsuitable (13+ mph)		Method: Electronic

ST#	Hike	Time	F	Resp.	Se	Age	Species	Call	Contac	t Time	Bearing	Dist	Lat	Long
31#	Ke e	Begin Er	d	code	×	n	Species	Type(s)	Initial	Final	(Azimuth)	(feet)	WGS84-G	PS data only
1	N	19.45 19:	55 N	()										
3	N	20:12 20:		2										
2	N	20:30 20:4	10	N										
4		20:57 21:0		J										
5		21:19 21:												
6	N	21:36 21:1	16 1	N										
7		21:57 22		1)				to the state of th						
8	1	22:15 22:												
10		22:31 22:		N										
17		22:55 23:	-	N										
15		23:12 23:												
	N	23:34 23:	445	N										
18		23:57 00:												
		05:18 00:												
24	N	00:50 01:	001	1				*						
33		01:08 01:												
	1	0124 01		Tarana Caracas Caraca Carac										
		01143 013												
		02:00 02:		N										
	'V			<u> </u>										

Time: All times are in military format (midnight is 2400).

Resp. Codes: Species Codes: Stoc = Northern Spotted Owl, STVA = Barred Owl, STRIX = Strix-species unknown, BUVI = Great Horned Owl, AEAC = Northern Saw-whet Owl, MEKE = Western Screech Owl, GLCA = Northern Pygmy Owl 4 = 4 Note Call (STOC Only), A = Agitated, B = Bark, beg = begging, C = Continuous, W = Whistle, 8 = 8 Note call (STVA only), Stan = other non-Strix owls

Survey Area:	Fountain	Owl Site(s):		Visit # 6
Contractor:	West, Inc	Crew: L. Voctsch		20
Weather (circle):	Clear Fog, Partly Clou	idy, Overcast, Drizzle, Rain, Snow	Month: 0	Day: <u>,</u> 202
Wind (circle): Calm (<	1 mph), Light air (1-3 mph), Lig	ght breeze (4-7 mph). Gentle breeze (8-12 mph), Unsuitable (13+ mph)	1	Method: Electron

ST#	Hiko	Time Begin End		Resp.	Sex	Age	Ag	Species	Call	Contac	t Time	Bearing	Dist	Lat		Long
	ko			code			Species	Type(s)	Initial Final		(Azimuth)	(feet)		WGS84-GPS data only		
30	N	19:587	80.08	N												
31		20:18 2	THE RESERVE THE PARTY OF THE PA	N												
29	N	20:34 7	20:44	N												
		20:52 2		N												
27	1	21:18 2	The second secon	N												
28	N	21:38	21:48	N								***************************************				
	1	21:54 2		N												
21			2231	N						****						
23			23:26	N						100						
25		23:35 2	***************************************	N				**********								
22	1	00:43	2000	NI												
20			01:10	N					7							
14	-	0148		N										*****		
13			01:56	N												
1 -	7	01-16	71.30	10			13 15	a hike	(tilm	24 m	IN RT					
12	N	02:18	7778	11			15 17	nirac		1						
11		02:41														
Q		03:13														
	12	03.13	17.63													

Survey Area:	Fountain	Owl Site(s):			Visit#	7_
Contractor:	West, Inc	Crew: R. Voertsch		Ω		
Weather (circle):	Clear Fog, Partly Cloudy,	Overcast, Drizzle, Rain, Snow		Month: 9	Day: <u> </u>	, 2023
Wind (circle): C	alm (<1 mph), Light air (1-3 mph) Light	oreeze (4-7 mph), Gentle breeze (8-12 mph	ı), Unsuitable (13+ mph)		Method: Elec	tronic

	Hike	Time		Resp.	Sex	Ag	Species	Call	1	t Time	Bearing	Dist	Lat	Long
		Begin	End	code		W.		Type(s)	Initial	Final	(Azimuth)	(feet)	WGS84-G	PS data only
9	N	00:18	00.28	N										
31	al	00:36	0046	()										
30	1)	00:51	01 01	N										
21	0/	00.51	151175		-									
16	N	01:16	01:40	N								- Contraction		
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Time: All times are in military format (midnight is 2408).

Resp. Codes: N = no owl response, A = audio response only, V = visual response only, V =