DOCKETED	
Docket Number:	23-OPT-01
Project Title:	Fountain Wind Project
TN #:	248309-4
Document Title:	2021 spotted owl memo
Description:	N/A
Filer:	Caitlin Barns
Organization:	Stantec Consulting Services, Inc.
Submitter Role:	Applicant Consultant
Submission Date:	1/4/2023 11:30:38 AM
Docketed Date:	1/4/2023



ENVIRONMENTAL & STATISTICAL CONSULTANTS

2725 NW Walnut Blvd., Corvallis, OR 97330
Phone: 307-214-2799 • www.west-inc.com • Fax: 307-637-6981

TECHNICAL MEMORANDUM

DATE: October 29, 2021

TO: John Kuba - ConnectGen

FROM: Joel Thompson and Samantha Hanson - WEST, Inc.

RE: 2021 California Spotted Owl Survey Results, Fountain Wind Project, Shasta

County, CA

Introduction

CG Fountain Wind LLC contracted Western EcoSystems Technology, Inc. (WEST) to provide biological survey support for the development of the proposed Fountain Wind Project (Project). The Project is located on approximately 29,500 acres (11,938 hectares) of private land in central Shasta County, California. The primary land use within the Project area is commercial timber production. The dominant vegetation type in the Project area 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 area due to both historical wildfire and commercial timber harvest activities.

California spotted owl (spotted owl; *Strix occidentalis occidentalis*) is currently designated as a California Species of Special Concern (CDFW 2021). WEST completed a risk assessment (Hutchison and Chatfield, 2020) that discussed the potential for Project impacts to spotted owls and their habitats, including assessments of historical spotted owl activity centers and potentially suitable spotted owl habitat within or near the Project. Although historical spotted owl activity centers exist within and adjacent the Project vicinity (Figure 1), there has been no documented spotted owl activity within the Project area in the last two decades (CNNDB 2018). Additionally, much of the potentially suitable spotted owl habitat in close proximity to the Project has been harvested in recent years under one or more approved timber harvest plans.

This memo provides the methods and results of spotted owl surveys conducted in accordance with Mitigation Measure 3.4-7 of Shasta County's Environmental Impact Report for the Project (Shasta County 2021).

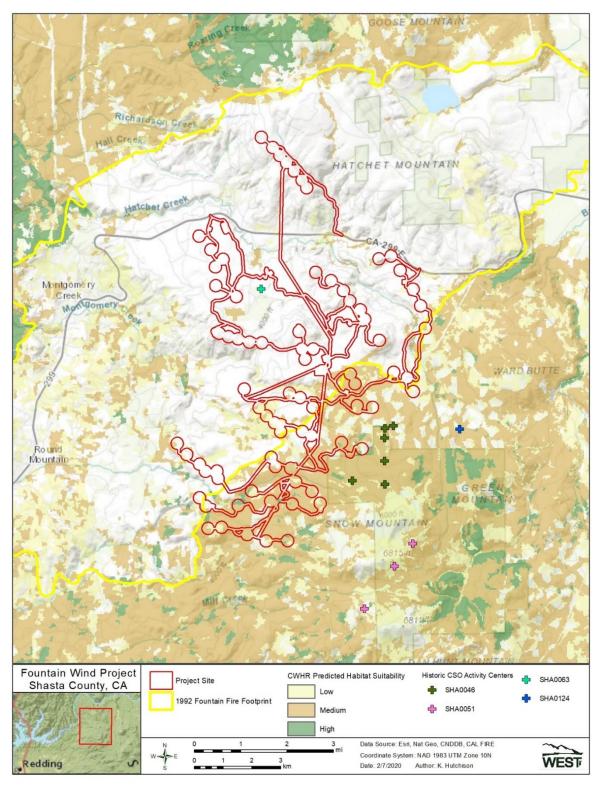


Figure 1. Historical California spotted owl (CSO) occurrences and predicted suitable spotted owl habitat near the Fountain Wind Project in Shasta County, California, as obtained from the California Natural Diversity Database (CNDDB) and California Wildlife Habitat Relationships (CWHR).

Methods

Surveys for spotted owls were conducted in 2021 to ensure that spotted owls were not nesting in areas that may be impacted by Project construction activities. Spotted owl surveys were conducted during the nesting season (March – August) in medium-high suitability nesting and roosting habitat located within a 0.25-mile of potential disturbance areas associated with proposed Project infrastructure (e.g., roads, underground collection, turbine pads, etc.). Field surveys aligned with the USFWS endorsed *Protocol for Surveying Proposed Management Activities that may Impact Northern Spotted Owls – 2012 Revision (USFWS 2012)*.

Project infrastructure was buffered by 0.25 mi and survey stations established in proximity to forest patches of medium-high suitability for use by spotted owls, which occur primarily in the southern and eastern portions of the Project (Figures 1 and 2). Surveys were conducted from 36 fixed survey stations (Figure 2) spaced such that they provided coverage of all targeted medium-high suitability habitat patches. Six rounds of surveys were conducted at each survey station between the months of March and August 2021. Each survey consisted of a 10-minute session of acoustic playback of spotted owl vocalizations. In the event of a spotted owl detection, a daytime follow-up visit was conducted to determine nesting status.

Results

Surveys were conducted between May 6 and July 20, 2021 (Table 1). Survey datasheets and a map of all detections are included as Appendix A. On May 6, 2021, a spotted owl was heard during surveys, its location estimated to be approximately 0.25 mi southeast of the nearest proposed turbine. A daytime follow-up visit was conducted the next day (May 7) to relocate the spotted owl and determine its residency/nesting status. The follow-up visit resulted in the discovery of a spotted owl pair and nest on US Forest Service land approximately 0.4 mi northeast of the nearest proposed turbine (Figure 2). On July 6, a pair of spotted owls was detected less than 1.0 mi from the owl detection and nest documented on May 6 and 7. The male from the pair was relocated during a daytime follow-up visit conducted the following day (July 7) and it was determined that, based on the color-coded leg band observed, it was the male from the nesting pair previously documented on May 7. The same male spotted owl was again heard on July 19 and its leg band confirmed when the bird was visually observed approximately 0.3 mi from the nearest proposed turbine (see Appendix A).

Table 2. Results of California spotted owl (CSO) acoustic playback surveys conducted between May 6 and July 20, 2021 at the Fountain Wind Project, Shasta County, California.

Survey Dates	Result
May 6 – 7, 2021	Pair / Nest confirmed 0.4 mi from Project
May 19 – 20, 2021	No CSO detected
June 14 – 15, 2021	No CSO detected
June 27 – 28, 2021	No CSO detected
July 6 – 8, 2021	Pair heard / male confirmed as part of nesting pair
July 19 – 20, 2021	Male heard and confirmed as part of nesting pair

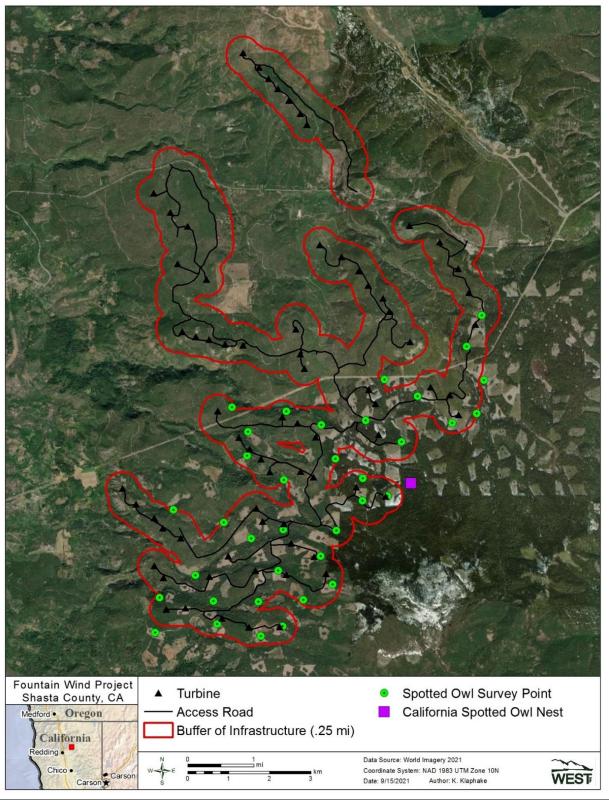


Figure 2. Spotted owl nest site and survey stations located in areas of older forest considered suitable for use by nesting spotted owls at the Fountain Wind Project, Shasta County, California. Northern and western portions of the Project do not include suitable spotted owl nesting habitat and were not surveyed.

Discussion and Conclusions

Based on the results of surveys conducted in areas of moderate-high suitability habitat in 2021, the likelihood of spotting owls nesting within the Project area or surrounding 0.25-mi buffer appears to be low. This data supports the historical data and prior risk assessment (Hutchison and Chatfield 2020), which indicated a low risk of impacts to spotted owls given the minimal amounts of habitat present and the lack of spotted owl activity documented in the Project vicinity in recent years.

References

- California Department of Fish and Wildlife, Natural Diversity Database (CDFW). April 2018. Special Animals List. Periodic Publication. 66pp.
- Shasta County Department of Resource Management Planning Division (Shasta County). 2021. Fountain Wind Project, Final Environmental Impact Report. Use Permit No. UP 16-007. Available online at: https://www.co.shasta.ca.us/index/drm/planning/eir/fountain-wind-project
- US Fish and Wildlife Services (USFWS). 2012. 2011 NSO Survey Protocol 2012 Revision. Protocol for Surveying Proposed Management Activities that may Impact Northern Spotted Owls. February 2, 2011, Revised January 9, 2012.

Page / of 1 (including maps)

Survey Area:		Owl Site(s):		Visit#/
Contractor:	WEST, Inc	Crew: D-GARZA		Month: 5 Day: <u>0 b</u> , 2021
Weather (circle):	Clear, Fog, Partly Cloudy,	Overcast, Drizzle, Rain, Snow		Method: Electronic
Wind (circle): Calm (<	1 mph), Light air (1-3 mph), Light bi	reeze (4-7 mph), Gentle breeze (8-12 mph),	Unsuitable (13+ mph)	

ST#	1	me	Resp.	Sex	Age	Species	Call Type(s)		ct Time	Bearing	Dist
	Degiii	End					,,,,	Initial	Final	(Azimuth)	(feet)
0201	2003	2013	N		1						
CSO 2	2016	2026	\sim								
cso 3	2029	2039	N					1			
cs0 4	2046	2056	AAC	И	U	AEAC	Stan	2054	2056	284	500
CS0 5	2102	2112	N		,						
cso 9	2119	2129	N								
cso 6	2135	2145	\sim								
cso 7	2147	2157	N								
CSO 8	2200	2210	A	U	U	MEKE	Stan	2203	2210	208	175
CSO 11	2214	2224	N						d		
CSO 12	2228	2238	\sim								
CSO 14	2243	2253	~			*					
CS013	2257	2307	A	F	U	STOC	A	2305	2307	120	1150
CSO 20	2325	2335	\sim								
cso 19	2345	2355	N								
cso 18	2359	2409	A	U	U	AEAC	Stan	2400	2409	214	1300
CSO 17	2412	2422	N					Luc.			
cso 15	2425	2435	A	u	ч	BUVI	Stan	2427	2435	308	1230
CSO 16	2441	2451	N								
CSO 10	2459	0109	N								

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

Resp. Codes: N = now response, A = audit or 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: STOC = Northern Spotled Owl, STNA = Barred Owl, STRIX = Strix-species unknown, BUVI = Great Horned Owl, AEAC = Northern Saw-whet Owl, MEKE = Western Screech Owl, GLCA = Northern Pygmy Owl, FLOW = Flammulated Owl

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

Page 2 of 2 (including maps)

Survey Area:		Owl Site(s):	Owl Site(s):					
Contractor:	WEST, Inc	Crew:	D.GARZA	Month: 5	Day: <u>06</u> _, 2021			
Weather (circle):	Clear, Fog, Partly Cloudy,	Overcast, Drizzle, Ra	ain, Snow		Method: Electronic			
Wind (circle): Calm (<	(moh) Light air (1-3 moh) Light I	reeze (4.7 mph) Gentle	breeze (8-12 mph) Unsuitable (13+ mph)					

CT#	I	Ti	me	Resp.	Sex	Age		Call Tama (a)	Contac	ct Time	Bearing	Dist
ST#	Hike	Begin ·	End	code	×	ge	Species	Call Type(s)	Initial	Final	(Azimuth)	(feet)
CSO 22		0116	0126	N								
CS0 25		0131	0141	N								7
CS0 23		0145	0/55	N								
CSO 24		0159	0209	A	4	4	MEKE	Stan	0200	0209	260	330
cso 33		0215	0225	N								
CSO 35		0228	0238	N								
CS036		0241	0251	\sim								
		2										
							,					
										7		
		*1.					`					
1		À.										V
		-										
	0.000											
		W PROPERTY OF THE PROPERTY OF										
										111111111111111111111111111111111111111		

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

Age: A = adult. S = subadult, J = juvenile 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 Species Codes: STOC = Northern Spotted Owl, STVA = Barred Owl, STXA = Barred Owl, STXA = Barred Owl, STXA = Street Horned Owl, AEAC = Northern Saw-wheld Owl, STXA = Western Screech Owl, GLCA = Northern Pygmy Owl, FLOW = Flammulated Owl 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

Page of Fountain (SCT) Spotted Owl Day-Visit Form Start Time 1815 End Time 2026 Total Time 131 (minutes) Visit# Month: 5 CSO 13 Survey Area: Fountain Location: 2021 D. GARZA Crew: Contractor: WEST, Inc. Weather (code): 46, Clear Other (specify): **Female** Juvi #1 Juvi #2 Male Wind (code): Initial Audio 1923 2020 Survey Method: Electronic **Audio Type** - Note contact Initial Visual 1930 2020 **Final Contact**

Mouse #	Out	TIME Taken	Fate	O\ Sex	NL Age	Behavio r Code	Notes
١	1933	1935	C	M	A		cached mouse in tree
2	1946	1948	E	M	A		ate mouse
3	1955	2010	N	M	A		took mouse to nest tree
						1	
						``	

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 Sex Codes: 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	Sect	1/4	1/16	1/64			
CSO	MIA	340	OLE	18	5W	5W	NE			
C20	F/U	34N	02E	18	SW	SW	NE			
Ne	est	34N	025	18	SW	SW	NE			

Sex/Age Observation
Type Left Leg Right Leg

M/A VB Blue Metal White background / Black Triangles

F/U VN

Type Codes: VN=visual, no bands read BB=first banding BB=band replaced VB=color bands read, bird free BB=first banding BB=band replaced VI=banded, incomplete read = NOTES:

NOTES: Survey follow-up of 5/6/21 female detection. Male voosting in Stand of >6ft at base Dougtirs, white first, Pines, about 100m up hill from Nest tree.

Male took Monse3 to Nest tree, then heard female in tree, they both emerged from tree. Female returned to Nest after 1-2 min. Too dark to see more than silhouette of female. Nest tree is huge Doug-fir > 8ft diameter at base, Not broken to p. Nest is side cavity about 2/3 SCT Proprietary Information to top of tree, facing down hill side. Located on North side of draw at 601413 E, 4517321 N.

Page _	of	_ (including maps)
		1

Survey Area: _		Owl Site(s):	Owl Site(s):				
Contractor:	WEST, Inc	Crew: D. GARZA	Month	: 5	_ Day: 07	_, 2021	
Weather (circle): Clear Fog, Partly Cloudy, Ove	ercast, Drizzle, Rain, Snow			Method: Ele	ctronic	
Wind (circle):	Calm (<1 mph), Light air (1-3 mph), Light breeze	e (4-7 mph), Gentle breeze (8-12 mph), Unsuitable (13+ mph)				

ST#	HKe	Ti	me	Resp.	Sex	Age	Chaoine	Call Type(s)	Contac	ct Time	Bearing	Dist
31#	Če.	Begin '	End	code	×	e	Species	Call Type(s)	Initial	Final	(Azimuth)	(feet)
SO 21		2114	424	N								
SU 26		2133	2143	N								
50 28		2145	2155	N								
SO 27		2260	2210	N								
SO 29		2218	2228	V								
50 30		2233	2243	N								
50 31		2246	2256	N								
30 34		2301	2311	N								
csu 32		2315	2325	N			1					
		113										
	y	A,										
		*										
			13:									

							·					
							News to the term of the second					

Page	1 of 2	(including	mans)
age_		(including	maps

Survey Area:		Owl Site(s):	Visit#
Contractor:	WEST, Inc	Crew: D. GARZA	Month: <u>0</u> 5 Day: <u>/</u> 9, 2021
Weather (circle):	Clear, Fog, Partly Cloudy,	Overcast, Drizzle, Rain, Snow	Method: Electronic
Wind (circle): Calm (<1 mph), Light air (1-3 mph), Light bi	reeze (4-7 mph), Gentle breeze (8-12 mph), Unsuitable (13+	mph)

ST#	I Ke	Tir	me	Resp.	Sex	Age	Species	Call Type(s)	Contac	ct Time	Bearing	Dist
	6	Begin '	End	code	×	ō	Species	Call Type(s)	Initial	Final	(Azimuth)	(feet)
90 32		2008	2018	\mathcal{N}								
CSU 36		2022	2032	\mathcal{N}								
SU 35		2035	2045	N								
CSO 33		2049	2059	N				1				
CSO 24!	-	2105	2115	N								
CSU 23		2120	2130	N								
cso 25	-	2135	2145	N								
So 22	1	2150	2200	N								
CSO 20		2203	1213	N			,					
cso 14	-	2218	2228	N						10		
CSO 12		2230	2240	N								
CSO 11	CHANGE OF THE PARTY OF THE PART	2243	2253	N								
CSO 10		2256	2306	N					in .			
C50 17		2309	2319	N								
CSO 15		1322	2332	N								
CSO 16		2339	2349	N								
CSO 18		2355	2405	2								
CSU 19	1	2409	2419	N								
C50 9		2429	2439	N								
CSO 7		LY 42	2452	N								

Page 2 of 2 (including maps)

Contra Weath	ctor: er (ci	rcle)	: Cle	WEST, Inc ear, Fog, Par	tly Cloudy,	Overca	Owl Site(s): Crew: Dist # 2 Month: 05 Day: 19, 202 Percast, Drizzle, Rain, Snow Method: Electron (4-7 mph), Gentle breeze (8-12 mph), Unsuitable (13+ mph)									
ST		I Ike		Light air (1-3 mpl me End	Resp.	reeze (4	-7 mph), Age	Species	3-12 mph), Unsuitable Call Type(s)	(13+ mph) Contac	t Time Final	Bearing (Azimuth)	Dist (feet)			
CSO	6	:	2454	0104	N											
CSO	9		0109	0119	N											
CSO	5	!	0127	0137	V											
CSO	4	1	0143	0153	N											
<u>১</u> ১১ ১৯১ ১৯১	1	1 1	0202	02/2	\sim											
CSU	2		0214	0224	N											
CS0	3	!	0226	0236	N											
								-								
		!									5					
			11													
		!						1								
									ii.							

_	1 - 1	
Page	(_of _/_	_ (including maps

Survey Area Contractor:			VEST, Inc		_	Crev	Site(s):	GARZA		Mon	V hth: <u>5</u> Day	
Weather (circle)		cle alm (<1 mph),	ear, Fog, Pari Light air (1-3 mph	tly Cloudy, ͡ਗ), Light br	Overca reeze (4-	st, Dri 7 mph),	izzle, Rain, Sr , Gentle breeze (ow 8-12 mph), Unsuitable	e (13+ mph)		Wetn	od: <u>Electronic</u>
ST#	工灰色	Tii Begin •	me End	Resp.	Sex	Age	Species	Call Type(s)	Contac Initial	ct Time Final	Bearing (Azimuth)	Dist (feet)
CSO 21		2007	2017	N								
CS0 26		2027	2037	N								
CSO 28		2040	2050	N								
CSO 27		2052	2102	N								
CSO 29		2104	2114	N								
CS0 30		2/19	2129	N	-							
CS0 31		2132	2142	\vee								
CSO 34		2146	2156	N								
		3 J.					,					
		1.										
								×				

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, FLOW = Flammulated Owl 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

	1 /	1
Page _	of	(including maps)

Survey Area:		Owl Site(s):	Owl Site(s):						
Contractor:	WEST, Inc	Crew: D.GA	ARZA	Month:	Day: 14, 2021				
Weather (circle):	Clear, Fog, Partly Cloudy,	Overcast, Drizzle, Rain, Snov	w		Method: Electronic				
Wind (circle): Calm (<	1 mph), Light air (1-3 mph), Light br	eeze (4-7 mph), Gentle breeze (8-	-12 mph), Unsuitable (13+ mph)						

ST#	1	me	Resp.	Sex	Age	Species	Call Type(s)	Contac		Bearing	Dist
	Degin	End	code			•	,,,,	Initial	Final	(Azimuth)	(feet)
CSO 20	2028	2038	N								
CSO 14	2042	2052									
CSO 12	2055	2105									
CSO 11	2108	2118									
cso 10	2121	2131									
CSU 19	2140	2150									
CGO 18	2154	2204									
CS0 15	2210	2220									
CSU 16	2226	2236	-			-					
CSU 17	2240	2250	Med a transport								
CSU 68	2256	2306	-								
CSU 07	2308	2318	Mills angue								
CSO 06	2320	2330	**************************************								
cso 09	2341	2351	Marine Color								
CSG 05	2402	2412	Marie Lang			4			۸		
cso 04!	2417	2427									
CSU 02	2435	2445									
CSO 01	2448	2458	and a comment				1				
CS6 03	0102	0112	1								
1											

Time: All times are in military format (midnlight 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

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, FLOW = Flammulated Owl

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

	1	/
Page _	_of _	(including maps)

Survey Area:		Owl Site(s):	, Visit#		
Contractor:	WEST, Inc	Crew:	D.GARZA	Month:	Day: 15, 2021
Weather (circle):	Clear, Fog, Partly Cloudy,	Overcast, Drizzle, Ra	ain, Snow		Method: Electronic
Wind (circle): Calm (s	(1 mmh) Light air (1-3 mmh) Light hre	eze (4-7 mph) Gentle	breeze (8-12 mph) Unsuitable (13+ mph)		

ST#	Ti	me	Resp.	Sex	Age	Species	Call Type(s)	Conta	ct Time	Bearing	Dist
1	Begin ·	End	code	×	je	Species	Call Type(s)	Initial	Final	(Azimuth)	(feet)
CSO 36	2024	2034	\sim								
CSO 32	2039	2049									
250 34	2052	2102	1								
CSO 31	2106	2116	A	U	5	MEKE	Stan	2109	2116	260	328
cso 30	2419	2129	\sim								
cso 29	2133	2173									
250 26	2146	2156									
CSO 27	2159	2209									
cso 28	2213	2223				1					
CSO 21	2232	2242									
050 22	2248	2253									
CSU 25	23 03	2313									
CSO 23	2317	2327									
CSO 24	2331	2341									
CSO 33	2348	2358									
CS0 35	2401	2411	1								
<u> </u>											
									7		

	. 1	
Page _	of	(including maps)

Survey Area:		Owl Site(s):			Visit#
Contractor:	WEST, Inc	Crew:	D. GARZA	Month: 6	Day: <u>27</u> , 2021
Weather (circle)	: Clear Fog. Partly Cloudy,	Overcast, Drizzle, Rain	, Snow		Method: Electronic
Wind (circle):	Calm (<1 mph), Light air (1-3 mph), Light bro	eze (4-7 mph), Gentle b	reeze (8-12 mph), Unsuitable (13+ mph)		

674	I	Tir	me	Resp.	Sex	Age	C	C-11 T(-)	Contac	t Time	Bearing	Dist
ST#	∐.Ke	Begin	End	code	×	ge	Species	Call Type(s)	Initial	Final	(Azimuth)	(feet)
CSO 20		2017	2027	\wedge								
CSO 14	1	2033	2043	1								
Cso 12		2045	2055				- Control of the Cont					
CS0 11		2059	2109									
CSO 10		2112	2122									
C50 17		2126	2136									
CSO 15		2141	2151									
cso 16		2158	2203						-			
CSO 18		2213	2223		2		2					
C50 19		2227	2237									
CSO B		2246	2256									
cso 7		2259	2309				*					
C50 6		23((2321	The state of the s								
CS0 9		2326	2336									
cso 5		2345	2355									
cso 4		2400	2410	We see "Pleasures								
cso (2419	2429						1			
CSO 2		2431	2441									
cso 3		2443	2453	4								
Time: All		nes la militare format (CONTRACTOR OF THE CONTRACTOR O	

_	1 - 1	
Page _	_of _	(including maps)

Survey Area:		Owl Site(s):		Visit#
Contractor:	WEST, Inc	Crew: D. GARZA	Month:	b Day: 29, 2021
Weather (circle):	Clear, Fog, Partly Cloudy,	Overcast, Drizzle, Rain, Snow		Method: Electronic
Wind (circle): Calm	(<1 mph), Light air (1-3 mph), Light b	reeze (4-7 mph), Gentle breeze (8-12 mph	n), Unsuitable (13+ mph)	

ST#	Tike	Tir	me	Resp.	Sex	Age	Chanina	Call Type(=)	Contac	ct Time	Bearing	Dist
- !	6	Begin '	End	code	×	ge	Species	Call Type(s)	Initial	Final	(Azimuth)	(feet)
CSO 36		2032	2042	\wedge								
OSU 32		2046	2056									
CS0 34		2059	2109				Y					
CS0 31		2113	2123									
CS0 30		2125	2135									
CS0 29		2139	2149									
CSO 26!		2152	2202									
CSO 28		2205	2215									
CSO 27		2219	2229				-					
CSO 21		2242	2252									
CSO 22		2300	2310									
CSO 25		2315	2325				*					
CSO 23		2329	2339									
CSO 24		2344	2354									
cso 33		400	2410									
CSO 35		2414	2424	1								
Time: All tim		ra in military format (m										

D	1 -	(including	
Page _	<u>or</u>	(including	maps)

Survey Area:)	Owl Site(s):	Visit #_5
Contractor:	WEST, Inc	Crew: D. GARZA	Month: Day: _&, 2021
Weather (circle):	Clear Fog, Partly Cloudy,	Overcast, Drizzle, Rain, Snow	Method: Electronic
Wind (circle): Calm (<	1 mph), Light air (1-3 mph), Light bre	eze (4-7 mph), Gentle breeze (8-12 mph), Unsuitable (13	+ mph)

	_	I	Ti	me	Resp.	Sex	Age	A!	C-11 T (-)	Conta	ct Time	Bearing	Dist
ST	#	Тike	Begin :	End	code	×	e G	Species	Call Type(s)	Initial	Final	(Azimuth)	(feet)
cso	10		2034	2044	N								
C50	17		2047	2057	1								
CSO	(5)		2100	2110									
CSO	6		2115	2125									
CS0	18		2132	2142									
CSU	19		2145	2155									
CSO	20		2200	2210									
CSO	14		2215	2225									
C50	12		2228	2238				1					
CSO	11		2241	2251									
CSO	8		2255	2305									
C50	7		2308	2318								12.5000000000000000000000000000000000000	and the second second popular
CSO	6		2320	2330									
CSO	9		2337	2347									
CSO	5		2354	2404	V								
C50	4		2411	2421	A	FM	U	STOC	W/4	0017	0018	212	2500
C\$0	2		2439	2449	N	l							
550	1		2452	0102									
CSO	3		0107	0117	V								
Time								¥					

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

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

Heard Pair calling

Fountain (SCT) Spotted Owl Day-Visit Form

Page __/ of _/_

: 59°F, Clear : Electronic TIME t Taken 10 2045 17 2107 2119 3 2145	Ini At Ini	itial Audidudio Type itial Visua al Contac OV Sex	2 4 4 all 2	Male 007 Note 030 120 Behavior Code	Ate Ate	Juvi #1		Other (specif	
TIME Taken 10 2045 17 207 3 2145 E = eats C = cae	Fate	oudio Type itial Visua nal Contae OV Sex M M	A A	Note 030 120 Behavio	Ate Ate	nouse			
TIME Taken 10 2045 17 207 2119 3 2145	Fate	OV Sex	NL Age	Note 030 120 Behavio	Ate Ate	nouse			
t Taken 10 2045 17 207 0 219 3 2145 E=eats C=cac	Fate	OV Sex M	NL Age	Pehavio	Ate Ate	nouse			
t Taken 10 2045 17 207 0 219 3 2145 E=eats C=cac	Fate	Sex M M	NL Age	Behavio	Ate Ate	nouse			
t Taken 10 2045 17 207 0 219 3 2145 E=eats C=cac	EEE	Sex M M M	Age A A		Ate Ate	nouse			
17 2107 0 2119 3 2145 E=eats C=cac	E	M	A	1	Ate Ate	nouse			
2119 3 2145 E = eats C = cac	E	M	A	1	Ate Ate	nouse			
3 2145 E = eats C = cac			A	Į.					
3 2145 E = eats C = cac	E	M	A	ž.					
				ži.					
				ą.					
				2					
				-					
	1								
								N = takes mo	
nale F = female									
		0	WL AN	D NEST	LOCATIO	NS			
Sex/Age	То				Sect		4	1/16	1/64
MA	341	V	07	E	18	54	/ ^	E	SE
						-			
st									
			BA	NDING S	STATUS				
			Left	Leg			Ri	ght Leg	
VB	13	slue 1	neta			white	Backyon	ind/Black	Triangle
							J		0
		***************************************		2015 to the control occurrent selection					
vievel ne bende	road UF	Devisoral		- VD	-l b d	ad bindform	00 1 1		
		=hand r	enlaced	VI=ha	nded income	lete read	=		
first banding	Br		121	Pair o	letection	1. Mal	· musti	ou in d	. 10 0
first banding 24 follow-1	up of	7/4	1121						VVV VIII D
							CB=bands	read, bird in h	nand
	Sex/Age M/M est Observation Type VB	Sex/Age To	Sex/Age Town M/A 34N est Observation Type VB Blue visual, no bands read UB=visual, first handing RP=hand r	OWL AN Sex/Age Town Ra M/M 34N 07 est Observation Type Left VB Blue M C A Wisual, no bands read UB=visual, unbande first handing BR=hand replaced	OWL AND NEST Sex/Age Town Range M/A 34V 02E Pest BANDING S Observation Type Left Leg VISUAL, no bands read VISUAL, no bands read VISUAL, no bands read OWL AND NEST Range VISUAL, NO DECEMBER 1997 VISUAL, NO BANDING S Respond replaced VISIAL VISUAL RESPONDED TO THE PROPERTY OF THE PROPERTY	OWL AND NEST LOCATION Sex/Age Town Range Sect M/A 34V 02E /8 BANDING STATUS Observation Type Left Leg VB BINEMETA Wisual, no bands read UB=visual, unbanded VB=color bands read First handing RR=band replaced VI=banded income	OWL AND NEST LOCATIONS Sex/Age	OWL AND NEST LOCATIONS Sex/Age Town Range Sect 1/4	OWL AND NEST LOCATIONS Sex/Age Town Range Sect 1/4 1/16

Page of (including maps)

Survey Area:		Owl Site(s):			Visit # <u>5</u>
Contractor:	WEST, Inc	Crew: D.GARZI	1	Month:	Day: <u>8</u> , 2021
Weather (circle):	Clear, Fog. Partly Cloudy,	Overcast, Drizzle, Rain, Snow			Method: Electronic
Wind (circle): Calm ((1 mph) Light air (1-3 mph) Light he	reeze (4-7 mnh) Gentle breeze (8-12 m	nh) Unsuitable (13+ mnh)		

ST#	Ti	me	Resp.	Sex	Age	Species	Call Type(s)	Contac	ct Time	Bearing	Dist
6	Begin *	End	code	×	0	Opecies	Can Type(s)	Initial	Final	(Azimuth)	(feet)
CSO 35	2030	2040	N								
CSO 32	2046	2056									
CSO 33	2101	2111									
CSO 24	2117	2127	Name of the Party								
CSO 23	2132	2142									
CSO 25	2147	2157									
CSU 22	2202	2212	and Transletter								
cso 2	2219	2229	- SOURCE OF								
cso 26	2237	2247	Tangal Pad			•					
CSO 28	2250	2300									
CSO 27	2304	2314	Section as								
CSO 29	2322	2332	rom drauge								
CSO 30	2336	2346	PARTHE								
CSO 31	2348	2358	vaugga;s								
CSO 34	2402	2412	Constrain								
CSO 36	2416	2426	4								
								y			
!											

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, FLOW = Flammulated Owl 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

Page __of __ (including maps)

			-	
Survey Area:		Owl Site(s):		Visit #&
Contractor:	WEST, Inc	Crew: D. GARZA		Month: 7 Day: 19, 2021
Weather (circle):	Clear, Fog. Partly Cloudy,	Overcast, Drizzle, Rain, Snow		Method: Electronic
Wind (circle): Calm (<	1 mph), Light air (1-3 mph), Light b	reeze (4-7 mph), Gentle breeze (8-12 mph), Ur	suitable (13+ mph)	

ST#	Time		Resp.		Age	Sausian .	Coll Type(s)	Contact Time		Bearing	Dist
31# 6	Begin	End	code	×	e g	Species	Call Type(s)	Initial	Final	(Azimuth)	(feet)
Cso 20	2028	2038	\sim								
CSU 14	2042	2052	,								
cso 12	2054	2104									
C50 11	2107	2117									
CSU 10	2120	2130	Marine Land Section							\	
CS0 17	2133	2143									
CSU 15	2146	2156	and the same of th								
cso lb	2203	2213									
CSO 18	2219	2229					1				
CS0 19	2232	2242									
CS6 8	2252	2302	AUTORIA SARAGO								
cso 7	2305	2315	мистепул								
CSO 6	2317	2327									
CS0 9	2333	2343	1								
90 5	2352	2402	В	M	A	STOC	4	2355	0009	240	750
CSO 4	2412	2422	N								
C50 1	2431	2441	1								
CSO 2	24 43	24 53								ė:	
cso 3	2455	0105	1								

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

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

FWS Company Proprietary Information

Visual on Band: Right leg-white Background/Black triangles

Page	_of _	(including	g maps)
	7	Visit#_	6

Survey Area:		Owl Site(s):	Visit#_6
Contractor:	WEST, Inc.	Crew: D. GADZA	Month: ₹ Day: 20 , 2021
Weather (circle):	Clear, Fog. Partly Cloudy,	Overcast, Drizzle, Rain, Snow	Method: Electronic
Wind (circle): Calm (<	1 mph), Light air (1-3 mph), Light	preeze (4-7 mph), Gentle breeze (8-12 mph), Unsuitab	le (13+ mph)

ST# E	1	Ti	me	Resp. on a code	Se	Age	Species	Call Type(s)	Contact Time		Bearing	Dist
	බ	Begin	End		×				Initial	Final	(Azimuth)	(feet)
CS0 30		2010	2020									
CSO 32		2026	2036									
CS0 35		2040	2050									
Cso 33		2053	2103	A	U	U	MEKE	Stan	2101	2102	130	160
CSU 24		2108	2118									
CS0 23		2121	2131									
CSO 25		2137	2147									
SO 22		2152	2202									
CSO 21		2209	2219				/	,				
CSO 26		2226	2236									
CSO 27		2240	2250					4.				
CSO 28		2252	2302									
CSO 29		2308	2319									
CSO 31		2320	2330									
CS0 34		2334	2344				0					
CSO 36		2347	2357									
							- Maria					
											F	

