



FOCUSED PROTOCOL SURVEYS FOR CALIFORNIA RED LEGGED FROG

AT&T SITE CSL02626
EVENSON PLUMBING
2780 BLACK WALNUT ROAD
SAN LUIS OBISPO, SAN LUIS OBISPO COUNTY, CA 93405
FA #13790138

PREPARED FOR:
AT&T
5001 EXECUTIVE PARKWAY
SAN RAMON, CALIFORNIA 94583

DATED: AUGUST 5, 2019

PREPARED BY:
ACE ENVIRONMENTAL, LLC
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LAS VEGAS, NEVADA 89178
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ACE PROJECT NO. 19-303-132-159

August 4, 2019

Kerry Willoughby
Ace Environmental, LLC
9976 Peak Lookout Street
Las Vegas, NV 89178

Subject: Results of Focused Protocol Surveys for California Red Legged Frog at Communications Tower Site CSL02626 in San Luis Obispo County, California.

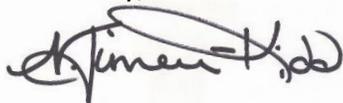
Dear Ms. Willoughby,

As recommended, focused surveys for the federally listed California Red-Legged Frog (CRLF) were conducted at the proposed communications site in See Canyon, near Avila Beach, California. Because the proposed site is within 500 feet of a creek that is suitable for the CRLF and there were reported occurrences within the area, surveys were recommended to determine if the proposed project could cause impacts to a listed species.

Focused surveys following U.S. Fish and Wildlife Service's protocol were conducted by qualified biologist Wendy Knight. No CRLF were found during the surveys and there for the project will not result in impacts to this species.

Should you have any questions regarding this report, please do not hesitate to contact me at (949)632-2756

Sincerely,



Nina Jimerson-Kidd
Wildlife biologist

Attachments:

1. Focused survey results summary report with data forms
2. Biologist's Qualifications

ATTACHMENT 1: FOCUSED SURVEY REPORT

**Results of 2019 California Red-legged Frog Survey
AT&T Telecommunications Facility CSL02626
Black Walnut Road
See Canyon, Avila Beach, California**

Prepared By:
Pacific Coast Ecology
1442 Lizzie Street
San Luis Obispo, CA 93401

United States Fish and Wildlife Service protocol surveys for California red-legged frog (CRLF; *Rana draytonii*) were conducted in June and July 2019 at 2780 Black Walnut Road in See Canyon, San Luis Obispo (Figure 1). Surveys were conducted by CRLF permitted biologists Wendy Knight (TE105545-3) and Susan Christopher (TE058073-3).

The proposed CSL02626 project is to construct a 150-foot tall AT&T mono-pine at 2780 Black Walnut Road. The proposed project is approximately 300 feet of an unnamed creek which flows through See Canyon and which is a tributary to San Luis Obispo Creek.

Surveys of the approximately 480-foot (145 meter) stretch of creek that runs across the property were initiated on June 3, 2019 and completed on July 17, 2019 (Table 1). No CRLF were observed during the protocol surveys. Pacific chorus frog (*Pseudacris regilla*) adults and several age cohorts of Pacific chorus frog tadpoles were both heard and observed during the surveys. No other amphibians were observed. See data sheets and notes attached as Appendices B and C. Table 1, below, summarizes the survey times and days.

Table 1. Summary of Survey Dates

Date	Survey Type	Start Time	End Time	Surveyor(s)
June 3, 2019	Daytime	5:30 pm	6:30 pm	W. Knight
June 5, 2019	Nighttime	9:30 pm	10:14 pm	W. Knight, S. Christopher
June 12, 2019	Nighttime	8:56 pm	9:30 pm	W. Knight, S. Christopher
June 19, 2019	Nighttime	9:20 pm	10:10 pm	W. Knight, S. Christopher
June 26, 2019	Daytime	4:15 pm	5:24 pm	W. Knight
June 26, 2019	Nighttime	9:15 pm	9:45 pm	W. Knight, S. Christopher
July 16, 2019	Daytime	1:40 pm	2:30 pm	W. Knight
July 17, 2019	Nighttime	9:28 pm	10:00 pm	W. Knight, S. Christopher

Creek Conditions

The creek through See Canyon has a tree canopy composed of black walnut (*Juglans californica*), sycamore (*Platanus occidentalis*) coast live oak (*Quercus agrifolia*) and arroyo willow (*Salix lasiolepis*). See photos attached as Appendix A. The canopy is largely intact, but narrow and there are areas at the eastern part of the property where it has been recently cut and vegetation burned to accommodate orchard trees right up to the edge of creek bank. Within the creekbed, the understory is composed primarily of horsetail (*Equisetum* sp.), watercress (*Nasturtium officinale*), poison oak (*Toxicodendron diversilobum*), sticky snakeroot (*Ageratina adenophora*), and California blackberry (*Rubus ursinus*). Periwinkle (*Vinca minor*) and wild cucumber (*Marah fabaceus*) are also present. Sticky snakeroot is identified as moderately invasive by the Cal-Invasive Plant Council (2019).

Water flow was consistent throughout the surveys. Flow was clear. Filamentous algae was present. There were several large pools that were over one foot deep (0.35 m) throughout the stretch of creek that runs across the property. There were also shallow riffles. The creek banks were undercut in many areas and exposed roots, overhanging vegetation and crevices and burrows in the banks made for complex wildlife habitat. Invertebrates were abundant and included diving beetles, water striders, water boatmen, toe biters and surface beetles.

Apple orchards are located on either bank.

Potential Threats to CRLF

Willows and other riparian vegetation appeared to have been recently cut and or burned in the eastern part of the property. Bank appears to be eroding in areas. Coast live oaks appear to have been topped. Downed trees and branches have been tossed down bank and some are in the creek. Debris piles have been dumped on creek banks. Sticky snakeroot is a moderately invasive plant in riparian areas and is especially invasive in mild, coastal areas (Cal-IPC 2019). Infestations of this plant change the characteristics of riparian areas by outcompeting native plants. This, as well as the aforementioned issues, may impact CRLF habitat quality.

Literature Cited:

Cal-IPC. 2019. Invasive Plant Inventory. Accessed online on August 1, 2019. Available online at: <https://www.cal-ipc.org>

USFWS. 2005. Revised Guidance on Site Assessments and Field Surveys for the California Red-legged Frog. August. Available online at:

August 1, 2019

Appendix A- Survey Area Photos

CRLF Survey Report: Photos

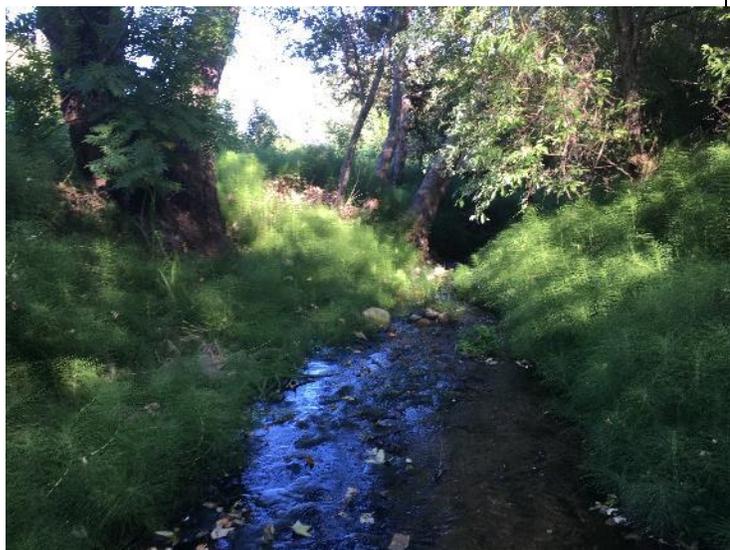


Photo 1. Horsetail dominated creek bed in western portion of property. June 3, 2019.



Photo 2. Creek bed with debris pile. June 3, 2019.



Photo 3. Creek through See Canyon with sticky snakeroot along the left bank. June 3, 2019.



Photo 4. Creek through See Canyon. June 3, 2019.



Photo 5. Pool in Creek. June 3, 2019.



Photo 6. Burned vegetation at top of bank. June 26, 2019.



Photo 7. Cut willows, June 26, 2019.



Photo 8. Apple tree planted at top of the creek bank. June 26, 2019.

August 1, 2019

Appendix B- Data Forms

Appendix A

Appendix E. California Red-legged Frog Survey Data Sheet

Survey results reviewed by _____
(FWS Field Office) (date) (biologist)

Date of Survey: 06/03/2019 Survey Biologist: Knight Wendy
(mm/dd/yyyy) (Last name) (first name)

Survey Biologist: _____
(Last name) (first name)

Site Location: 35° 14' 06.0" N, 120° 45' 15.1" W
(County, General location name, UTM Coordinates or Lat./Long. or T-R-S).

See Canyon, San Luis Obispo County.
ATTACH A MAP (include habitat types, important features, and species locations)

2780 Black Walnut Rd., SLO, CA 93405

Proposed project name: CSL02626

Brief description of proposed action:

Construction of an AT+T unmanned telecommunications facility in the form of a monopine.

Type of Survey (circle one): DAY NIGHT

BREEDING NON-BREEDING

Survey number (circle one): 1 2 3 4 5 6 7 8

Begin Time: 5:30 pm

End Time: 6:30 pm

Cloud cover: none

Precipitation: none

Air Temperature: 69°F

Water Temperature: 17°C

Wind Speed: 0-4 mph

Visibility Conditions: clear

Moon phase: new moon

Humidity: low

Description of weather conditions: clear, sunny day

Brand name and model of light used to conduct surveys: NA

Were binoculars used for the surveys (circle one)? YES NO

Brand, model, and power of binoculars: Bushnell 8x40

**Appendix E.
California Red-legged Frog Survey Data Sheet**

AMPHIBIAN OBSERVATIONS

Species	# of indiv.	Observed (O) Heard (H)	Life Stages	Size Class	Certainty of Identification
<i>Pseudacris regilla</i>	100s	0	tadpoles		positive

Describe potential threats to California red-legged frogs observed, including non-native and native predators such as fish, bullfrogs, and raccoons: none observed

Other notes, observations, comments, etc.

sticky snakeroot dominates portion of bank w/in creek bed (moderately invasive plant according to Cal-IPC)

Necessary Attachments:

1. All field notes and other supporting documents
2. Site photographs
3. Maps with important habitat features and species locations

Appendix E.
California Red-legged Frog Survey Data Sheet

Survey results reviewed by _____
(FWS Field Office) (date) (biologist)

Date of Survey: June 5, 2019 Survey Biologist: Knight Wendy
(mm/dd/yyyy) (Last name) (first name)
Survey Biologist: Christopher Susan
(Last name) (first name)

Site Location: 2780 Black Walnut Rd., SLO, CA 93401
(County, General location name, UTM Coordinates or Lat./Long. or T-R-S).

****ATTACH A MAP** (include habitat types, important features, and species locations)**

Proposed project name: CSLO 2626
Brief description of proposed action:
monopine construction

Type of Survey (circle one): DAY NIGHT BREEDING NON-BREEDING
Survey number (circle one): 1 2 3 4 5 6 7 8
Begin Time: 9:30 pm End Time: 10:14 pm
Cloud cover: 0 Precipitation: none
Air Temperature: 64°F Water Temperature: 17°C
Wind Speed: 0-4 mph Visibility Conditions: clear - very good
Moon phase: waxing crescent Humidity: dry
Description of weather conditions: calm, clear night

Brand name and model of light used to conduct surveys: NiteLite Wizard II, LifeGear

Were binoculars used for the surveys (circle one)? YES NO
Brand, model, and power of binoculars: Canon 8x23, Bushnell 8x40

**Appendix E.
California Red-legged Frog Survey Data Sheet**

AMPHIBIAN OBSERVATIONS

Species	# of indiv.	Observed (O) Heard (H)	Life Stages	Size Class	Certainty of Identification
<i>Pseudacris regilla</i>	1	0	Adult		Positive
<i>Pseudacris regilla</i>	30	H	Adult		positive

Describe potential threats to California red-legged frogs observed, including non-native and native predators such as fish, bullfrogs, and raccoons: none

Other notes, observations, comments, etc. none

Necessary Attachments:

1. All field notes and other supporting documents
2. Site photographs
3. Maps with important habitat features and species locations

Appendix E.
California Red-legged Frog Survey Data Sheet

Survey results reviewed by _____
(FWS Field Office) (date) (biologist)

Date of Survey: June 12, 2019 Survey Biologist: Knight Wendy
(mm/dd/yyyy) (Last name) (first name)
Survey Biologist: Christopher Susan
(Last name) (first name)

Site Location: 2780 Black Walnut Rd., San Luis Obispo, CA
(County, General location name, UTM Coordinates or Lat./Long. or T-R-S). 93405

****ATTACH A MAP** (include habitat types, important features, and species locations)**

Proposed project name: CSLO2626
Brief description of proposed action:
monopine construction

Type of Survey (circle one): DAY NIGHT BREEDING NON-BREEDING

Survey number (circle one): 1 2 3 4 5 6 7 8

Begin Time: 8:56pm End Time: 9:30pm

Cloud cover: 0 Precipitation: none

Air Temperature: 62°F Water Temperature: 17°C

Wind Speed: 0mph Visibility Conditions: clear

Moon phase: waxing 3/4 moon Humidity: dry

Description of weather conditions: calm, clear night

Brand name and model of light used to conduct surveys: Nite Lite Wizard II, Life Gear

Were binoculars used for the surveys (circle one)? YES NO
Brand, model, and power of binoculars: Canon 8x23, Bushnell 8x40

**Appendix E.
California Red-legged Frog Survey Data Sheet**

AMPHIBIAN OBSERVATIONS

Species	# of indiv.	Observed (O) Heard (H)	Life Stages	Size Class	Certainty of Identification
psre	2	0	tadpole		100%
psre	1	0	adult		100%
psre	9	H	adult		100%

Describe potential threats to California red-legged frogs observed, including non-native and native predators such as fish, bullfrogs, and raccoons: None

Other notes, observations, comments, etc.

Willows recently cut since last week + thrown into creek bottom. Apple trees planted on edge of top of bank + riparian vegetation cleared. Appears to be causing bank to erode. Burned bank vegetation. Topped coast live oak trees.

Necessary Attachments:

1. All field notes and other supporting documents
2. Site photographs
3. Maps with important habitat features and species locations

**Appendix E.
California Red-legged Frog Survey Data Sheet**

Survey results reviewed by _____
(FWS Field Office) (date) (biologist)

Date of Survey: 06/19/19
(mm/dd/yyyy)

Survey Biologist: Knight Wendy
(Last name) (first name)

Survey Biologist: Christopher Susan
(Last name) (first name)

Site Location: 2780 Black Walnut Rd. San Luis Obispo, CA
(County, General location name, UTM Coordinates or Lat./Long. or T-R-S). 93405

****ATTACH A MAP** (include habitat types, important features, and species locations)**

Proposed project name: CSL02626
Brief description of proposed action:
monopine construction

Type of Survey (circle one): DAY NIGHT BREEDING NON-BREEDING

Survey number (circle one): 1 2 3 4 5 6 7 8

Begin Time: 2120 End Time: 2210

Cloud cover: 100% Precipitation: none

Air Temperature: 62°F Water Temperature: 17°F

Wind Speed: < 2 mph Visibility Conditions: clear

Moon phase: Waning 3/4 moon Humidity: dry

Description of weather conditions: calm, mild (warm) night
overcast from fog layer

Brand name and model of light used to conduct surveys: Nite Lite Wizard II, Life Gear

Were binoculars used for the surveys (circle one)? YES NO
Brand, model, and power of binoculars: only Bushnell 8x40

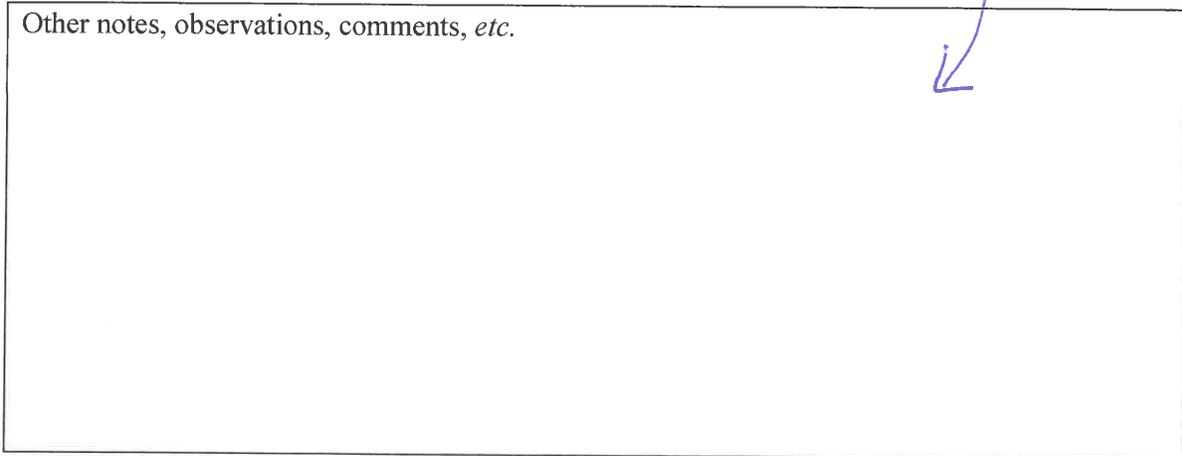
**Appendix E.
California Red-legged Frog Survey Data Sheet**

AMPHIBIAN OBSERVATIONS

Species	# of indiv.	Observed (O) Heard (H)	Life Stages	Size Class	Certainty of Identification
<i>Pseudacris regilla</i>		2 Obs 12 H	3 — adults 1 tadpoles		positive

Describe potential threats to California red-legged frogs observed, including non-native and native predators such as fish, bullfrogs, and raccoons: Burning + clearing of riparian vegetation along top of bank. Brush tossed down bank and some is in the creek.

Other notes, observations, comments, etc.



Necessary Attachments:

1. All field notes and other supporting documents
2. Site photographs
3. Maps with important habitat features and species locations

Appendix E.
California Red-legged Frog Survey Data Sheet

Survey results reviewed by _____
(FWS Field Office) (date) (biologist)

Date of Survey: 6/26/19 Survey Biologist: Knight Wendy
(mm/dd/yyyy) (Last name) (first name)
Survey Biologist: _____
(Last name) (first name)

Site Location: 2780 Black Walnut Road, San Luis Obispo, CA
(County, General location name, UTM Coordinates or Lat./Long. or T-R-S). 93405

****ATTACH A MAP** (include habitat types, important features, and species locations)**

Proposed project name: CSLO2626
Brief description of proposed action:
monopine construction

Type of Survey (circle one): DAY NIGHT BREEDING NON-BREEDING

Survey number (circle one): 1 2 3 4 5 6 7 8

Begin Time: 4:15 pm End Time: 5:24 pm

Cloud cover: 0 Precipitation: None

Air Temperature: 68° F Water Temperature: 19.8° C

Wind Speed: 0-4 mph Visibility Conditions: clear

Moon phase: waning ~1/4 moon Humidity: dry

Description of weather conditions: calm, warm sunny day with slight breeze.

Brand name and model of light used to conduct surveys: N/A

Were binoculars used for the surveys (circle one)? YES NO Bushnell 8x40

Brand, model, and power of binoculars: _____

**Appendix E.
California Red-legged Frog Survey Data Sheet**

AMPHIBIAN OBSERVATIONS

Species	# of indiv.	Observed (O) Heard (H)	Life Stages	Size Class	Certainty of Identification
pacific chorus frog	## 100s 100s	0	tadpole	large very small	pool at upstream end of site

Describe potential threats to California red-legged frogs observed, including non-native and native predators such as fish, bullfrogs, and raccoons: none

Other notes, observations, comments, etc.

Orchard + tilling up to 1 foot of top of bank
riparian vegetation (willows) cut + debris left on
banks + in creek.

Necessary Attachments:

1. All field notes and other supporting documents
2. Site photographs
3. Maps with important habitat features and species locations

**Appendix E.
California Red-legged Frog Survey Data Sheet**

Survey results reviewed by _____
(FWS Field Office) (date) (biologist)

Date of Survey: 6/26/19
(mm/dd/yyyy)

Survey Biologist: Knight Wendy
(Last name) (first name)

Survey Biologist: Christopher Susan
(Last name) (first name)

Site Location: 2780 Black Walnut Rd, San Luis Obispo, CA
(County, General location name, UTM Coordinates or Lat./Long. or T-R-S). 93405

****ATTACH A MAP** (include habitat types, important features, and species locations)**

Proposed project name: CSLO 2626
Brief description of proposed action:
monopine construction

Type of Survey (circle one): DAY NIGHT BREEDING NON-BREEDING

Survey number (circle one): 1 2 3 4 5 6 7 8

Begin Time: 9:00 pm 9:15 start down creek End Time: 9:45

Cloud cover: 0 Precipitation: None

Air Temperature: 60°F Water Temperature: 18°F

Wind Speed: 0 mph Visibility Conditions: clear

Moon phase: Waning ~1/4 moon Humidity: dry

Description of weather conditions: calm, clear night.

Brand name and model of light used to conduct surveys: Nite Lite Wizard II, Life Gear

Were binoculars used for the surveys (circle one)? YES NO
Brand, model, and power of binoculars: Bushnell 8x40

**Appendix E.
California Red-legged Frog Survey Data Sheet**

AMPHIBIAN OBSERVATIONS

Species	# of indiv.	Observed (O) Heard (H)	Life Stages	Size Class	Certainty of Identification
Pacific chorus frog	25	0	large tadpole	no less	positive
	~100	0	tiny tadpole	hatchlings	
	9	H	Adult	—	positive

Describe potential threats to California red-legged frogs observed, including non-native and native predators such as fish, bullfrogs, and raccoons: None

Other notes, observations, comments, etc.

Water level does not appear to have gone down any during course of surveys so far.

- Necessary Attachments:**
1. All field notes and other supporting documents
 2. Site photographs
 3. Maps with important habitat features and species locations

Appendix E.
California Red-legged Frog Survey Data Sheet

Survey results reviewed by _____
(FWS Field Office) (date) (biologist)

Date of Survey: July 16, 2019 Survey Biologist: Knight Wendy
(mm/dd/yyyy) (Last name) (first name)
Survey Biologist: _____
(Last name) (first name)

Site Location: 2780 Black Walnut Rd, San Luis Obispo, CA
(County, General location name, UTM Coordinates or Lat./Long. or T-R-S). 93405

****ATTACH A MAP** (include habitat types, important features, and species locations)**

Proposed project name: CSLO2626
Brief description of proposed action:
monopine construction

Type of Survey (circle one): DAY NIGHT BREEDING NON-BREEDING

Survey number (circle one): 1 2 3 4 5 6 7 8

Begin Time: 1:40 pm End Time: 2:30 pm

Cloud cover: 0 Precipitation: none

Air Temperature: 81°F Water Temperature: 18°C

Wind Speed: ~4 mph Visibility Conditions: clear

Moon phase: full moon Humidity: dry

Description of weather conditions: sunny day, gentle breeze

Brand name and model of light used to conduct surveys: _____

Were binoculars used for the surveys (circle one)? YES NO
Brand, model, and power of binoculars: Bushnell 8x40

**Appendix E.
California Red-legged Frog Survey Data Sheet**

AMPHIBIAN OBSERVATIONS

Species	# of indiv.	Observed (O) Heard (H)	Life Stages	Size Class	Certainty of Identification
Psre	200	0	very small to large w/leg buds		100%

Describe potential threats to California red-legged frogs observed, including non-native and native predators such as fish, bullfrogs, and raccoons: none

Other notes, observations, comments, etc.

same downed riparian vegetation as previously noted

Necessary Attachments:

1. All field notes and other supporting documents
2. Site photographs
3. Maps with important habitat features and species locations

**Appendix E.
California Red-legged Frog Survey Data Sheet**

Survey results reviewed by _____
(FWS Field Office) (date) (biologist)

Date of Survey: 7/17/19
(mm/dd/yyyy) Survey Biologist: Knight, Wendy
(Last name) (first name)
Survey Biologist: Christopher, Susan
(Last name) (first name)

Site Location: 2780 Black Walnut Rd, San Luis Obispo, CA
(County, General location name, UTM Coordinates or Lat./Long. or T-R-S). 93405

****ATTACH A MAP** (include habitat types, important features, and species locations)**

Proposed project name: CSLO2626
Brief description of proposed action:
monopine construction

Type of Survey (circle one): DAY NIGHT BREEDING NON-BREEDING
Survey number (circle one): 1 2 3 4 5 6 7 8
Begin Time: 9:28 pm End Time: 9:59 pm
Cloud cover: 0 Precipitation: none
Air Temperature: 66°F Water Temperature: 18°C
Wind Speed: 0 mph Visibility Conditions: clear
Moon phase: full, not risen Humidity: dry
Description of weather conditions: calm, clear night

Brand name and model of light used to conduct surveys: NiteLite Wizard II, Life Gear

Were binoculars used for the surveys (circle one)? YES NO
Brand, model, and power of binoculars: Bushnell 8x40

Appendix E.
California Red-legged Frog Survey Data Sheet

AMPHIBIAN OBSERVATIONS

Species	# of indiv.	Observed (O) Heard (H)	Life Stages	Size Class	Certainty of Identification
Pseudacris regilla	50	O	tadpole	w/ legs + small	positive
Pseudacris regilla	6	H	adult	---	positive

Describe potential threats to California red-legged frogs observed, including non-native and native predators such as fish, bullfrogs, and raccoons: _____

Other notes, observations, comments, etc.
 Definate decrease in chorus frog vocalizations.
 Creek has become more overgrown along creek.

Necessary Attachments:

1. All field notes and other supporting documents
2. Site photographs
3. Maps with important habitat features and species locations

August 1, 2019

Appendix C- Field Notes

Appendix B

102
5 June 2019 SLO Co

See Lgn., Black Walnut Rd.
CELF Night survey w/ Wendy
Knight. Project Name: Black
Walnut
Roposa action: Cell Tower

Begin 2130 END 2214 clouds 0
Rain 0 AIR 64°F water 17.0°C
wind 0-4 mph V. S. b. l. ins good Moon 10%
Humidity: Dry behind
Lights: Nitelite W-22A II Life gear
Binocs: Canon 8x23, Bushnell 8x40
Species/# / obs, call / Life Stage: 1/1
Ride 1 / obs Ad 100%
Ride 30 Call Ad 100%

Time bets N/A
Clear flowing water, A/l water bugs
algae
Notes diving beetles, water
sniders
Under cut banks, roots, Crickets
0.35 m deep pools

12 June 2019 SLO Co

103
See Lgn., Black Walnut Rd.
CELF Night survey #2 w/ Wendy
Begin 2054 END 2130 clouds 0
Rain 0 AIR 64°F water 17.0°C
Wind: 0 Visibility: Very good
Moon 60%. Humidity: Dry
Species/# / obs, call / Life Stage / ID
Ride 2 obs Tadpole 100%
Ride 1 obs Adult 100%
Ride 9 call Adult 100%

Water runs in some pools.
Diving beetles, water sticklebacks
Willows recently cut since
last week + thrown into
creek bottom. Applies plants
on edge of top of bank +
riparian cleared. Causing
bank to erode. Burned bank
vegetation topped coast
with oaks

19 June 2019 Slo Co.

See Cyn, Black Walnut
 CREF Night Survey w/ Wendy
 Begin also END 2210 Clouds: Fog
 Rain 0 Air 62°F Wet? 17.0
 Wind < 2mph Visibility: Very good
 Moon: Can't see Humidity: Dry
 At start, pair of PSRE in
 complex + 1 small tadpole.
 plus n/2 PSRE calling.
 Water boatman, water spider,
 toe biter, diving beetles,
 surface beetles.

20 June 2019 Slo Co.

See Cyn, Black Walnut

CREF Night Survey w/ Wendy Knight
 Begin: also END Clouds: D
 Rain: 0 Air: 60°F Water: 18.0°C
 Wind: 0 Visibility: Very good
 Moon: not up Humidity: Low
 Searched under bridge where
 Wendy saw a large tadpole
 to day - in this pool 21 med
 + large PSRE tadps w/ 2
 legs, many small recently
 hatched + 2 calling.

20 June 2019

SLO Co.

See Cyn (Crest)
 Plus 7 more PSRE called + 3
 more tadps seen. Some insects
 as before. More overgrown,
 water depth + flow the same
 w/ 1st survey.

27 June 2019

SLO Co.

Stacy + I saw Cyn, Pecker
 Bald eagle perched in oak
 by horse's stream from
 behind Meadows is skill.
 Flowing above ground. Cattle-
 bus pond has dirt down
 below the upper marsh +
 clogged up a little over Night.
PSRE meta are out.

Parker Hill Spade Post:

PH16, the small round pond
 by bus station, the deep one
 in canyon, + the beamed
 (at the pond) (gong E) soil
 had water.

17 July 2019

SLO CO.

See Cyn, Black walnut

CIRLF Night + some w/ windy.

Sunset 8:17 PM. Start 9:28 PM

Clouds: None After water 18:02

Wind: 2 Moon - not up yet

Humidity: low. At start, ~3 PSi

Large tanks w/0 lpg, 1 small

hunting. None calling.

Waterways covers water in

Section where N. person removed

+ low visibility - 2 PSi calling

Small, med + large dms

beetles, surface beetles,

water spiders. Beginning 2

PSi calling.

June 3

10:00-10:30 emails, ICF
time sheet for Greg
scheduling
10:30-10:45 Pincer time sheet

M .5

T 11.5

W 9.5

Th

F .25

3:15-4:15 ICF phone w/ Greg
et al.

4:15-4:30 Greg + Doug
ICF scheduling

CRIT Survey for Nina Kidd

4:30 Survey #1

Start Survey 5:30

clean, D-11 blind 6:00P

Walnut, sycamore, willows

horse tail, cress, poke, etc.

sw apple trees, CA blackberry

tiny Hyla frogs very black

pool of pop live. Riffles

CDak / Monney sink

wooded out banks

100/3

veg over water

herms

complex veg + debris piles

pool in channel

WCA

wild cucumber

ACW0

sw

vineyard on one side

apple orchard on other

6:30 done w/ survey

Pod CAQA

702 768 9803

one way mileage

80763 → 80716

6:26 → 7:03 got gas

June 4

6:15 start

start miles 80716 7:30

8:15 onsite 12:00 lunch

3 Burslem, 4 Granite Rock

Talk w/ Chuck Re: schedule

+ Robin

Return to Robin

June 12 CRLF survey #3
Second night survey.
Rod 702-768-9803

8:00
8:45 onsite
9:45 leave site
riparian veg cut, brush tossed
into creek.
10:30 home

ICF Pismo scour
photos to Doug 7-7:30
La Gloria
phone w/ Jill, emails, review
permits 2:30-3.

6/13 ICF 3-3:00
photos to Doug
new bird nest project from
Nina

6/14 ICF La Gloria
6:00 AM → 6:00 PM
8:1706 →
8:10 arrive onsite. Willis there
12:30 fence that was

Barbara

June 26, 2019

arrive at CEF survey site 4:00

83092 miles

2nd daytime survey

10:00

100s of tracking
fads. 1 large fad

back at see canyon. Rd

5:45 pm

83096 miles

back in SLD 10:05

83106

8:54 arrive on CEF site,

w/ SUE for last breeding
night survey.

6/28 Friday

10:45-11:30

Pismo Score
photos for report

11:30-1:15

SCP app.

1:45-4:30

SCP app.
submitted

TPP 8.4

4:30-5:00 email to

Andrew + Shawn.

South facing slope of
Santa Rita Hills
end 8397s 12.4 miles
1.35 and 1000

7/15 9:15 - 9:45
left Pismo Beach
10:30 - 10:45 ice
hatchet

synthetic
C-120
Friday 1 am Subaru

7/16/2019 1:10 pm leave home
7:40 arrive at site

begin survey
cloud cover 0%
air temp 81°
wind speed 14 mph
moon phase
precip - none
water temp
vis 10/1000
humidity clear

Sunny day, gentle breeze
4-10 mph wind
done 2:30 w/survey
81°
3:05 home

7/17/2019
San Miguel nesting bird
survey
6 AM
start 084167 miles

start survey 7:44
57° F
109° clouds
4 mph wind

LOST
CA ground squirrels

8:40 end survey.
No nest activity on
either pile.

57°
9:45 back in SD
end mileage 84251
8:40-8:46 water up

8/20/2019

ATTACHMENT 2: BIOLOGIST'S QUALIFICATIONS

WENDY KNIGHT

Pacific Coast Ecology

PERMITS

USFWS Recovery Permit for California tiger salamander and California red-legged frog
CDFW Scientific Collecting Permit

EDUCATION

Bachelors Degree, Biology, Colorado College, Colorado Springs, Colorado. 1996.

RELEVANT WORK EXPERIENCE

- ICF International**, Sacramento, California January 2015-present
- Designated Biologist for California tiger salamander and California red-legged frog for Hwy 25 Curve Replacement Project, San Benito County, California. CalTrans Region 6
 - Designated Biologist for California tiger salamander and California red-legged frog for Hwy 246. Road Improvement Project between Lompoc and Buellton, Santa Barbara County, California. CalTrans Region 5

- Pacific Coast Ecology**, San Luis Obispo, California January 2011-present

Biologist

- Prepared Biological Resource Assessments for Cannabis Operations Applications, Santa Barbara County, CA 2018-present
- Aquatic surveys for CTS larvae, Lompoc, CA. Spring 2017, 2018, 2019.
- Designated CTS and CRLF biologist for California Flats Solar Ranch Project, Shandon, CA. January - March 2016
- Prepared Biological Assessment for Pismo Beach Bluff Restoration Project, Pismo Beach, CA. March 2015
- Scoped and excavated small mammal burrows for California tiger salamander, relocated CRLF adults and tadpoles out of project area, monitored construction activities to ensure compliance with Incidental Take Permit and Biological Opinion. Black Road Bridge Replacement Project, Santa Maria, CA. May – December 2014
- Conducted fall and winter 2013 spotlight surveys for kit fox with CDFW, Carrizo Plain, CA.
- Scoped and excavated small mammal burrows for California tiger salamander, Union Valley Parkway, Santa Maria, CA
- Conducted pre-construction nesting bird survey for cellular tower and wood pole replacement sites, San Luis Obispo and Santa Barbara Counties, CA. Ongoing.
- Conducted pre-construction surveys for California red-legged frog (CRLF) and San Francisco dusky footed woodrat, San Francisco Public Utility Commission (SFPUC) Crystal Springs/San Andreas Reservoir Pipeline Improvement Project, San Mateo County, CA
- Relocated CRLF egg mass and adults and conducted bullfrog control, SFPUC Lower Crystal Springs Dam Improvement Project, San Mateo County, CA
- Conducted acoustic monitoring and visual surveys for bat species, Mandalay and Edison Bridges, Oxnard, CA and Santa Ana River Bridge Seismic Retrofit and Routine Maintenance Project, Riverside, CA
- Conducted acoustic monitoring and visual surveys for bat species, SFPUC, Crystal Springs/San Andreas Reservoir Pipeline Improvement Project and Harry Tracy Water Treatment Plant Projects, San Mateo County, CA

- Conducted acoustic monitoring and visual surveys for bat species, Arup/PB Joint Venture Presidio Parkway/Doyle Drive Replacement Project, San Francisco, CA
- Surveyed pipeline ROW for rare plants and exotic plants, SFPUC, Crystal Springs/San Andreas Reservoir Pipeline Improvement Project, San Mateo County, CA
- Monitored construction activities and relocated CRLF from project site, DaSilva Gates Construction, Hwy 1/Salinas Road Interchange Project, Watsonville, CA.

HT Harvey & Associates, San Luis Obispo, California February 2012-October 2014

- Conducted nesting bird surveys, San Mateo and Santa Clara Counties, CA
- Conducted one-way door checks for burrowing owl exclusion and nesting bird surveys and deterrence. California Valley Solar Ranch Project, Carrizo Plain, San Luis Obispo County
- Conducted weekly avian fatality searches in active solar arrays, California Valley Solar Ranch Project, Carrizo Plain, San Luis Obispo County, CA

Terra Verde Environmental Consultants, San Luis Obispo, California Feb 2012-July 2012

- Conducted daily nesting bird surveys for the PG&E San Luis Obispo to Atascadero Reconducting Project, San Luis Obispo County.
- Conducted pre-construction CRLF surveys and monitored clearing of riparian vegetation for impacts to CRLF, Diablo Creek, San Luis Obispo County.
- Conducted CRLF survey in Reservoir Canyon, San Luis Obispo CA.
- Conducted bat surveys using Wildlife Acoustic ultrasonic detector and Sonobat software, Reservoir Canyon, San Luis Obispo CA .

Rincon Consultants, San Luis Obispo, California

August 2005-June 2009

Biologist

- Conducted CRLF protocol surveys in San Luis Obispo and Santa Barbara Counties. Including Santa Margarita Ranch, Picachio Creek, and Santa Maria area.
- Conducted California tiger salamander protocol surveys, Las Flores Ranch and Union Valley Parkway Projects, Santa Maria, CA.
- Inventoried bat species using acoustic monitoring, More Mesa, Santa Barbara County.
- Monitored revegetation project in San Luis Obispo, CA and prepared the annual report to document compliance with Army Corps of Engineers mitigation requirements. Davenport Creek Project Annual Mitigation Monitoring Report: Year 5. November 2007. Client: Weyrich Development Company, Inc.

Morro Group, San Luis Obispo, California

April 2004–March 2005

Biologist

- Monitored and relocated individuals of Morro Bay blue butterfly, Broderson and Tri-W Sites, Los Osos, California.
- Conducted protocol habitat assessments for California tiger salamander, Santa Maria, CA.
- Conducted protocol surveys for California red-legged frogs.
- Conducted protocol surveys for Morro shoulderband snail, Camp San Luis Obispo and Morro Bay Power Plant, San Luis Obispo County, CA.
- Conducted habitat assessments and surveys for monarch butterfly, Nipomo, CA.
- Prepared the Biological Assessments and Natural Environmental Study Reports for Caltrans for bridge replacement projects over the following creeks; Picachio Creek, Leffingwell Creek, and Santa Rosa Creek, San Luis Obispo County, CA.

Research Assistant in the Department of Biological Sciences

- Sampled CTS larvae to determine population distribution, size and developmental stage.
- Monitored roadways and drift fences for California tiger salamander adults (until 2004).
- Prepared annual reports on California tiger salamander monitoring.
- Surveyed riparian areas for California red-legged frogs and conducted bullfrog control.
- Conducted plant surveys to determine the degree of spatial aggregation and temporal variation in Bay checkerspot butterfly hostplants.
- Conducted Bay checkerspot butterfly larval surveys and assisted with various research projects involving adult butterflies.
- Supervised undergraduate field crews.
- Surveyed for Myrtle's silverspot butterfly, Point Reyes National Seashore, CA
- Sampled native bee diversity and abundance on organic and conventional farms, Davis, CA
- Studied bat diversity in clearcuts and forest of various successional stages using Anabat II. Trapped and identified bat species using mist nets and harp traps. Campeche, Mexico

RECENT WORKSHOPS ATTENDED

Declining Aquatic and Semi-Aquatic Herps of the Central Coast, The Wildlife Society, San Luis Obispo, CA, April 2016

San Joaquin Kit Fox Ecology, Conservation, and Survey Techniques, The Wildlife Society, Carrizo Plains, San Luis Obispo County, CA, July 2013

California Tiger Salamander Workshop, Elkhorn Slough Coastal Training Program, Watsonville, CA, April 2013

Acoustic Monitoring of Bats Workshop, The Wildlife Society, Santa Cruz County, CA, May 2012

Bat Ecology and Field Techniques Workshop, The Wildlife Society, Los Molinos, CA, April 2012

California Red-legged Frog Workshop, Elkhorn Slough Coastal Training Program, Watsonville, CA, April 2012

Bat Ecology and Field Techniques Workshop, The Wildlife Society, Monterey County, CA, September 2006.

CEQA Basics, AEP Workshop, San Luis Obispo, CA, November 2003

California Tiger Salamander Workshop, Rohnert Park, CA, October 2003

PROFESSIONAL AFFILIATION

The Wildlife Society, Central Coast Chapter. Representative to the Western Section Executive Board
2013-2016