

**DOCKETED**

<b>Docket Number:</b>	21-AFC-02
<b>Project Title:</b>	Willow Rock Energy Storage Center
<b>TN #:</b>	248939
<b>Document Title:</b>	Flores SCP 6 Nov 2018_KFlores_Redacted pdf
<b>Description:</b>	N/A
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<b>Organization:</b>	Golder Associates
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<b>Docketed Date:</b>	2/23/2023



State of California Department of Fish and Wildlife  
**2018 SCIENTIFIC COLLECTING PERMIT APPLICATION**

DFW 1379 (REV. 10/31/17) Page 1

MAR 28 2018

MAR 28 2018

DocID: D-0024835524-7  
 Trans: 18729699 11/06/18 15:33  
 Outlet: 310001-001 Fee: \$324.75  
 2018 Scientific Collecting Permit  
 See permit for validity dates

DEPARTMENT USE ONLY **BY LRB MAILROOM BY LRB MAILROOM**

THIS PERMIT IS VALID FROM 11/6/18 THROUGH 11/6/21 PERMANENT ID NUMBER SC- 10572 # OF PIs 1 SC- 10572

**PERMIT, AMENDMENTS AND REPORT OF SPECIMENS CAPTURED OR SALVAGED MUST BE IN IMMEDIATE POSSESSION WHILE COLLECTING. Collecting is not allowed under the authority of a sport fishing license.**

- NEW  RENEWAL - When renewing, Report of Specimens Collected or Salvaged (DFW 1379a) MUST BE ATTACHED or application will be returned.
- FEES LISTED BELOW INCLUDE A NONREFUNDABLE APPLICATION FEE AND PERMIT FEE CHECK ALL BOXES THAT APPLY:**
- INDIVIDUAL OR ENTITY \$108.92 APPLICATION FEE (SUBMIT NOW) AND  \$324.75 PERMIT FEE \*(SUBMIT WHEN NOTIFIED)
  - PI \$108.92 APPLICATION FEE (PER PI) (SUBMIT NOW) AND  \$324.75 PERMIT FEE (PER PI)\*(SUBMIT WHEN NOTIFIED)
  - STUDENT - \$27.04 APPLICATION FEE (SUBMIT NOW) AND  \$54.59 PERMIT FEE \*(SUBMIT WHEN NOTIFIED)

\*DO NOT SUBMIT THE PERMIT FEE NOW - You will be required to submit the permit fee if the permit is approved.

(Fees include a nonrefundable three percent (3%) application fee, not to exceed \$7.50 per item) (Section 700.4, Title 14, California Code of Regulations (CCR))

**BEFORE COMPLETING APPLICATION:** Read instructions, permit descriptions, Standard Conditions, and Numbered Authorizations. Complete all appropriate sections of the application (sponsor's section may be required). Type or print clearly.

**SECTION 1 - INDIVIDUAL PERMITTEE INFORMATION - Complete only if applying as an individual OR student.** Provide the following information and attach a statement of qualifications or resume outlining experience with wildlife and activity requested in Section 3.

FIRST NAME Karla	M.I. L	LAST NAME Flores	GO ID NUMBER (from ALDS issued license) 1041146377
AFFILIATION Environmental Science Associates		<input type="checkbox"/> Check here if you want future correspondence mailed to your affiliation	TITLE Biologist
PERMITTEE'S MAILING ADDRESS [REDACTED]		DAY TELEPHONE [REDACTED]	FAX NUMBER [REDACTED]
CITY [REDACTED]	STATE [REDACTED]	ZIP CODE [REDACTED]	EMAIL ADDRESS [REDACTED]
HAIR COLOR [REDACTED]	EYE COLOR [REDACTED]	HEIGHT [REDACTED]	WEIGHT [REDACTED]
AFFILIATION'S MAILING ADDRESS [REDACTED]		CITY [REDACTED]	STATE [REDACTED]
		SEX <input type="checkbox"/> MALE <input checked="" type="checkbox"/> FEMALE	DATE OF BIRTH [REDACTED]

**SECTION 2 - ENTITY PERMITTEE - Complete only if applying as a qualified entity**

Entities include California certified small businesses, aquariums or zoos accredited by the Association of Zoos and Aquariums, museums, California Special Districts, public agencies, non-profit non-governmental organizations, accredited colleges or universities and instructors at accredited colleges or universities. Proof of such status must be provided with a new application. An additional permit fee is required for each PI when the permit is ready to be issued.

ENTITY'S NAME	DAY TELEPHONE	FAX NUMBER
ENTITY'S MAILING ADDRESS	CITY	STATE
		ZIP CODE

**PRINCIPAL SCIENTIFIC INVESTIGATOR (PI) INFORMATION - Provide the following information and attach a statement of qualifications or resume for the full-time permanent employee responsible for providing adequate supervision and training of the employees and volunteers listed below. WHAT IS THE TOTAL NUMBER OF PIs PROPOSED FOR THIS SCP?**

If you have more than one PI proposed under the entity permit, complete and attach page 5 (make copies if needed). The entity shall submit a non-refundable application fee for each PI.

(1) FIRST NAME	M.I.	LAST NAME	TITLE
HAIR COLOR	EYE COLOR	HEIGHT	WEIGHT
		SEX <input type="checkbox"/> MALE <input type="checkbox"/> FEMALE	DATE OF BIRTH
GO ID NUMBER (from ALDS issued license)	DAY TELEPHONE	EMAIL ADDRESS	

**LIST OF AUTHORIZED INDIVIDUALS:** List ALL employees or volunteers that will be working under the Principal Scientific Investigator named above. Attach a separate list if needed. An amendment form and fee must be submitted, approved, and returned to you by the Department before you can add or remove employees and volunteers from this list.

FIRST NAME	LAST NAME	DRIVER'S LICENSE OR DMV ID NUMBER	STATE

**FOR DEPARTMENT OF FISH AND WILDLIFE USE ONLY**

REVIEWED BY DATE	APPLICATION FEE TRANSACTION #	PERMIT FEE TRANSACTION #	# APPLICATIONS	LRB Routed TO/DATE
				1. 2. 3.





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### REPORTING REQUIREMENTS

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The Report of Specimens Captured or Salvaged (DFW 1379a) must be filled out immediately upon completion of each collecting trip. The disposition portion of the report may be filled out when final disposition of the animals is known. Section 650(i), Title 14, of the CCR requires that permittees submit a report within 30 days after the expiration of the permit or upon submitting an application to renew a SCP if the application is submitted prior to the expiration of a SCP. The report and instructions for completing it are available at [wildlife.ca.gov/Licensing/Scientific-Collecting](http://wildlife.ca.gov/Licensing/Scientific-Collecting) in a fill and save format. Upon completion of this electronic report, print a copy and attach it to your Scientific Collecting Permit Application or you may send an electronic copy to the License and Revenue Branch at [spu@wildlife.ca.gov](mailto:spu@wildlife.ca.gov). **Each individual to whom a SCP is issued must provide his or her own Report of Specimens Captured or Salvaged unless otherwise specified in the SCP. If you are not renewing your permit, you are still required to submit a final report within 30 days after the expiration of your SCP. Any Special Report required in the conditions of your SCP must also be submitted.**

If you did not collect any specimens or collected the same individuals as another permittee, you are still required to submit a report. Enter a single line indicating that no specimens were collected or indicate the permittee's name and SCP number for the specimens already reported. **DO NOT DUPLICATE DATA.**

The Department also requires that you record and submit your field observations of Threatened, Endangered, or Special Concern species for addition to the California Natural Diversity Database (CNDDDB). The California Native Species Field Survey Form, instructions, and other accepted formats, including digital, are available at [wildlife.ca.gov/Data/CNDDDB/Submitting-Data](http://wildlife.ca.gov/Data/CNDDDB/Submitting-Data).

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### AMENDMENT

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You are required to complete and submit a Scientific Collecting Permit Amendment Form (DFW1379e) and fee when requesting a change to an existing SCP proposing to change a Principal Scientific Investigator on the permit, or when adding or removing employees or volunteers from the original list. The amendment form and instructions are available at [wildlife.ca.gov/Licensing/Scientific-Collecting](http://wildlife.ca.gov/Licensing/Scientific-Collecting). **YOU MUST NOT BEGIN ANY NEW COLLECTION ACTIVITY UNTIL YOU HAVE RECEIVED A VALIDATED SCP AMENDMENT FROM THE DEPARTMENT.**

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### PERMANENT IDENTIFICATION NUMBERS FOR SCIENTIFIC COLLECTING PERMITTEES

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Each permittee will be assigned a permanent Scientific Collecting Identification Number (SCIN). The SCIN is prefaced with SC followed by six digits and can be found at the top of the SCP. Use your SCIN on all SCP forms and documents submitted to the Department. You must mark all traps used under the authority of your SCP with your SCIN.

If you wish to update your contact information and/or affiliation with the Department, please send an email to [spu@wildlife.ca.gov](mailto:spu@wildlife.ca.gov) stating your name, SCIN, and your updated email, phone number(s), mailing address(es) and affiliation name(s).

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### NOTICE

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**Disclosure Statement** - Under Section 650, Title 14, of the CCR, the Department is authorized to collect information from applicants to maintain a record of licensure. All information requested on this application is mandatory unless otherwise indicated. Under FGC Section 391, other personal information submitted on this application may be released for law enforcement purposes, pursuant to court order, or for official natural resources management purposes or as may otherwise be required under the California Public Records Act.

A licensee may obtain a copy of his/her license records maintained by the Department by submitting a written request to the Custodian of Records, Department of Fish and Wildlife, License and Revenue Branch, 1740 N. Market Blvd., Sacramento, CA 95834 or [lrb@wildlife.ca.gov](mailto:lrb@wildlife.ca.gov). All requests must include the requestor's name, address, and telephone number.

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### \*2016-2017 RULEMAKING AFFECTING SCPs\*

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We thank you for your patience as we work to bring you an improved SCP Program. The Department is revising the Scientific Collecting Permit regulations and permit structure in 2016-2017 – for more information, please visit [wildlife.ca.gov/Licensing/Scientific-Collecting](http://wildlife.ca.gov/Licensing/Scientific-Collecting).





MAR 28 2018

**BY LRB MAILROOM**

FIRST NAME <b>Karla</b>	M.I. <b>L</b>	LAST NAME OR ENTITY NAME (IF QUALIFIED ENTITY) <b>Flores</b>	PERMANENT ID NUMBER <b>SC- 10572</b>
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**SECTION 3 – PERMIT INFORMATION**

USE OF PERMIT: CHECK ALL APPLICABLE BOXES

- Biological Consulting (generally, catch and release only)  
  Research  
  Museum Collection  
  Biological Collection Service  
 State, Federal or Other Agency Biologist  
  Education  
  Other-

**Wildlife and Activity: Reminder - You must provide justification in Section 5 for each wildlife taxa and activity checked here. Check the type of wildlife taxa to be taken AND circle the type of activity requested: S=sacrifice; R=capture and release; C=take into captivity; SL=salvage; M=mark.**

<input checked="" type="checkbox"/> MAMMALS	Wildlife Branch authorizations and conditions are attached	S	R	C	SL	M	<input type="checkbox"/> FRESHWATER FISHES	S	R	C	M	
<input checked="" type="checkbox"/> BIRDS* Other a		S	R	C	SL	M	<input type="checkbox"/> FRESHWATER INVERTEBRATES	S	R	C	M	
<input type="checkbox"/> REPTILES		S	R	C	SL	M	<input type="checkbox"/> ANADROMOUS FISHES	S	R	C	M	
<input type="checkbox"/> AMPHIBIANS		S	R	C	SL	M	<input type="checkbox"/> MARINE FISHES	S	R	C	SL	M
<input type="checkbox"/> VERNAL POOL/TERRESTRIAL INVERTEBRATES		S	R	C	SL	M	<input type="checkbox"/> MARINE AQUATIC PLANTS	S	C	SL		
*See Standard Condition "K"						<input type="checkbox"/> MARINE/TIDAL INVERTEBRATES	S	R	C	SL	M	

**REVIEWED**  
 By Hannah Hughes at 2:19 pm, Oct 26, 2018

**CHECK ONE:** Other SCP permittees are involved in activity of project. YES  NO  (If yes, list the permittees below. Attach separate list if needed.)

FIRST NAME	LAST NAME	SCIN NUMBER
		SC-
		SC-
		SC-

**SECTION 4 – SPONSOR INFORMATION**

Students, teachers and individuals collecting on behalf of an organization must all have one member of the organization sponsor them. Sponsors must fully complete this section of the application. Students must have one faculty member with affiliation to the student's college or university sponsor the student. Elementary and secondary school teachers must be sponsored by their principal. In some other cases, the Department may review an application and determine that a sponsor is needed and will request this information directly from the applicant or organization.

SPONSOR'S FIRST NAME	M.I.	LAST NAME	DAY TELEPHONE
TITLE	ORGANIZATION		EMAIL ADDRESS
MAILING ADDRESS	CITY	STATE	ZIP CODE
SPONSOR'S CERTIFICATION/SIGNATURE: I verify the take described in this application is required by this organization			DATE

**APPLICATION CERTIFICATION**

BY CHECKING ALL BOXES, I HEREBY DECLARE THAT THE FOLLOWING INFORMATION IS PROVIDED IN THE JUSTIFICATION SECTION OF THIS APPLICATION

- Purpose  
  Species + Numbers to be collected  
  Locations + Timeframes for Collecting  
  Species Disposition  
 Methods/Activity  
  Literature Cited  
  Attached Federal/State Permit(s) (Applicable/Not Applicable – Circle appropriate one)

I understand that if I fail to provide all information, circle items or check the boxes, my permit may be denied. I certify that I have read, understand, and agree to abide by, all conditions of this permit and attachments, the applicable provisions of the Fish and Game Code, and the regulations promulgated thereto (Title 14, Section 650). I certify that I am not currently under any Fish and Wildlife license or permit revocation or suspension, and that there are no other legal or administrative proceedings pending that would disqualify me from obtaining this permit. I agree that if I make any false statement as to any fact required as a prerequisite to the issuance of this permit, the permit is void and will be surrendered where purchased, and I understand that I may be subject to prosecution pursuant to FGC Section 1054 or to other administrative actions pursuant to Section 746, Title 14, of the CCR.

APPLICANT SIGNATURE X <i>Karla J. Flores</i>	DATE <b>3/18/2018</b>
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FIRST NAME Karla	M.I. L	LAST NAME OR ENTITY NAME (If qualified entity) Flores	PERMANENT ID NUMBER <b>SC- 10572</b>
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**SECTION 5 – PERMIT JUSTIFICATION** – Required for ALL activities.

IS A FEDERAL OR ADDITIONAL STATE PERMIT OR MOU REQUIRED?  YES (If yes, attach copies.)  NO

PROVIDE START AND END DATE AND/OR EXPLAIN SEASONAL REQUIREMENTS FOR YOUR WORK.	START	END
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**REMINDER - You must provide justification here for each wildlife taxa and activity circled in Section 3. Use the space below to summarize your proposed research. Be sure to include each of the following headers in bold/underlined and as follows: purpose (include scientific or educational need for the requested activity); methods/techniques (include equipment/gear) and the reason for using them; species and numbers to be collected, if known (include scientific and common names); collection locations (include counties and specific locales and reasons for choosing them); and disposition, which describes the organism's fate (i.e. sacrifice, catch and release, salvage, captivity). If you propose to collect in a Marine Protected Area (MPA), give the proper name of the MPA and explain (1) Why collection is required within an MPA and provide justification for why it cannot be conducted outside of an MPA; (2) Why the proposed methods are appropriate for this activity; and (3) Describe the frequency of the proposed activity per collecting area. If you are working in areas where special status species (listed, fully protected, or species of special concern) are expected to be incidentally captured, explain why collection is required in these areas, and describe how your methods/techniques and equipment/gear will avoid or minimize take of non-target sensitive species. If requesting marking/tagging, captivity, or sacrifice, specific details as described above must be included for each species and activity requested. Attach additional pages if needed. Attach complete copies of appropriate federal permits and additional State permits (e.g., Memorandum of Understanding) to avoid delay of processing.**

**Mohave ground squirrel (*Xerospermophilus mohavensis*):**

Purpose: Conduct CDFW protocol level surveys to determine presence/absence  
 Methods: Standard live trapping methods using Sherman/Tomahawk traps  
 Locations: Throughout species range- Inyo, Kern, San Bernardino, Tulare counties  
 Disposition: None to be taken

Note: "take" includes capture.

**White-tailed Antelope ground squirrel (*Ammospermophilus leucurus*):**

Purpose: May be non-target captures while conducting CDFWMGS protocol level surveys  
 Methods: Standard live trapping methods using Sherman/Tomahawk traps  
 Locations: Throughout species range- Imperial, Inyo, Kern, Mono, Riverside San Bernardino, Tulare counties  
 Disposition: None to be taken, released upon capture

**San Diego desert woodrat (*Neotoma lepida intermedia*)**

Purpose: Determine presence/absence  
 Methods: Standard live trapping methods using Sherman/Tomahawk traps  
 Locations: Throughout species range- Los Angeles, Orange, Riverside, San Bernardino San Diego, San Luis Obispo, Santa Barbara, Ventura counties  
 Disposition: None to be taken, released upon capture

**Southern grasshopper mouse (*Onychomys torridus ramona*)**

Purpose: Determine presence/absence  
 Methods: Standard live trapping methods using Sherman/Tomahawk traps  
 Locations: Throughout species range- Imperial, Los Angeles, Orange, Riverside, San Diego counties  
 Disposition: None to be taken, released upon capture

**Northwestern San Diego pocket mouse (*Chaetodipus fallax fallax*)**

Purpose: Determine presence/absence  
 Methods: Standard live trapping methods using Sherman/Tomahawk traps  
 Locations: Throughout species range- Los Angeles, Orange, Riverside, San Bernardino and San Diego counties  
 Disposition: None to be taken, released upon capture

You shall use the "Department's Staff Report on Burrowing Owl Mitigation," dated March 7, 2012.

**Burrowing owl (*Athene cunicularia*)**

Purpose: Conduct protocol surveys to determine presence/absence  
 Methods: Surveys will be conducted according to ~~CBOC (1993) Burrowing owl survey protocol and mitigation guidelines~~  
 Locations: Southern California-Kern, Imperial, Los Angeles, Orange, San Diego, Riverside, San Bernardino, San Diego, Tulare counties  
 Disposition: None to be captured, banded or handled at any time.

**RECEIVED**

**MAR 28 2018**

**BY LRB MAILROOM**



FIRST NAME <b>Karla</b>	M.I. <b>L</b>	LAST NAME OR ENTITY NAME (if qualified entity) <b>Flores</b>	PERMANENT ID NUMBER <b>SC-10572</b>
<b>FOR DEPARTMENT OF FISH AND WILDLIFE USE ONLY</b>			
<input type="checkbox"/> PAGES OF ATTACHMENTS NOTED IN THIS PERMIT SHALL REMAIN WITH THIS PERMIT AT ALL TIMES. CONDITIONS, AUTHORIZATIONS, AND APPROVALS ARE AS FOLLOWS:			ISSUED BY/DATE

Please see attached:  
Wildlife Branch authorizations and conditions (7 pages dated October 25, 2018),  
Standard Conditions for All SCPs (DFW 1379d; 2 pages dated July 01, 2017), and  
Wildlife Authorizations (DFW 1379; 1 page dated October 31, 2017).

DEPARTMENT REVIEWER(S) SIGNATURE		
1. <b>APPROVED</b> <i>By Hannah Hughes at 2:29 pm, Oct 25, 2018</i>	2.	3.



California Department of Fish and Wildlife (Department) - Wildlife Branch  
Authorizations and Conditions for Scientific Collecting Permit (SCP)  
Karla L. Flores  
Environmental Science Associates  
October 25, 2018

SC-010572

**APPROVED**

By Hannah Hughes at 2:29 pm, Oct 25, 2018

This permit was previously issued on March 2, 2015. The terms and conditions set forth in that permit are hereby superseded by this renewal.

**Authorizations and conditions based on your one-page SCP justification received by the Department on March 28, 2018, on file with the Nongame Wildlife Program (NWP).**

**Capture and release** of small mammals (Wildlife Authorization #5b) – including San Diego desert woodrat (*Neotoma lepida intermedia*), Southern grasshopper mouse (*Onychomys torridus ramona*) and Northwestern San Diego pocket mouse (*Chaetodipus fallax fallax*), California Mammal Species of Special Concern (MSSC) – is authorized in accordance with the additional conditions below.

Burrowing owl (*Athene cunicularia*) surveys shall only be conducted as outlined in the conditions below.

**Take** of Mohave ground squirrel (*Xerospermophilus mohavensis*) is authorized in accordance with the Memorandum of Understanding on which you are named (i.e., Principal Investigator: Phil Leitner; issued on December 2, 2016 or any later amendments; Karla L Flores, issued on June 26, 2018 or later amendments).

Permitted activities are restricted to the following geographic areas:

Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Tulare and Ventura Counties

You shall obtain and maintain during the term of this SCP any federal permit(s) required to conduct the activities authorized herein. Copies of these federal permit(s), and any amendments, shall be provided to the Department, and the names of all authorized sub-permittees shall be provided for the federal permit(s). Although the provisions of the federal permit and this SCP may vary, the more restrictive conditions prevail.

The Department contact for the MSSCs is Scott Osborn, [Scott.Osborn@wildlife.ca.gov](mailto:Scott.Osborn@wildlife.ca.gov), 916-324-3564, Wildlife Branch, 1812 9th Street, Sacramento, CA 95811-7000.

#### **Conditions to Scientific Collecting Permit SC-010572**

##### **1. When a Memorandum of Understanding Is Needed**

Intentional take of species listed as Threatened, Endangered, or Candidate under the California Endangered Species Act (CESA), or intentional take of Fully Protected species, is not authorized without a Memorandum of Understanding (MOU) from the Department on which you are specifically named.

To apply for a State MOU, contact the Department Research MOU Coordinator, Scott Osborn ([Scott.Osborn@wildlife.ca.gov](mailto:Scott.Osborn@wildlife.ca.gov)) and/or Esther Burkett ([Esther.Burkett@wildlife.ca.gov](mailto:Esther.Burkett@wildlife.ca.gov)), for study proposal requirements.

##### **2. When Additional Authorization on Your SCP Is Needed**

Intentional take of Federally-listed species is not authorized without a valid federal permit **and** additional written authorization from the Department (e.g., Wildlife Authorization #8), on which you are specifically named or otherwise authorized.

Except as authorized above, intentional capture of California Species of Special Concern (amphibians, reptiles, mammals) requires special authorization on your SCP.

Intentional capture of rabbits, hares and pika, bats, beaver, porcupine, carnivores (e.g., foxes, bear, ringtail, raccoon, marten, fisher, mink, badger, otters, bobcat, mountain lion, seals, sea lions), or big game mammals (e.g., deer, elk, antelope, bighorn sheep) requires special authorization on your SCP.

Intentional take of birds is not authorized without valid federal permit(s) and additional written authorization by the Department (e.g., Wildlife Authorization #7). Additionally, take of bird nests and eggs, California Bird Species of Special Concern, pelicans, herons, egrets, swans, vultures, raptors, cranes, seabirds, waterfowl, and upland game birds all require special authorization on your SCP for methods such as: intrusive nest monitoring, mist-netting, banding, marking, biotelemetry, and collection of biological samples.

Incidentally-captured individuals of non-target wildlife taxa shall be released at the capture site immediately, once identified, without further handling, unless otherwise authorized for work on that species or subspecies in this permit.

You can find a list of species and subspecies designated as Threatened, Endangered, Candidate, Fully Protected, Species of Special Concern, or "Taxa to Watch" in the Department's Special Animals List at the following link: <http://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=109406&inline=1>.

Marking of any species requires special authorization by the Department (See Standard Condition I).

### 3. Location of Research

Your research project may be located in a special status natural community or in an area that provides habitat for a non-target special status plant or animal. It is your responsibility to determine whether or not implementation of your research project could have potential adverse impacts to a listed or special status plant or animal, or special status natural community. To minimize potential impacts, compile relevant biological information in the general project area prior to conducting field work or research. Generally, identify vegetation and habitat types occurring in your project area based on biological and physical properties of the site and surrounding ecological subregion<sup>1</sup>, unless a larger assessment area is appropriate. Conduct a Rarefind or CNDDDB Quick Viewer search (<https://www.wildlife.ca.gov/Data/CNDDDB/Maps-and-Data>) and check with other reliable resources for known occurrences of special status plants, animals, or natural communities at the site before conducting your research. Contact the Wildlife Branch SCP Coordinator ([Justin.Garcia@wildlife.ca.gov](mailto:Justin.Garcia@wildlife.ca.gov), 916-323-0644) if non-target special status plant or animal species are likely to be encountered or are being handled or disturbed.

You shall check with the landowner to determine if any other researchers are permitted to work in the same site or area. Prior to entering Department lands to conduct the research described herein, you shall first receive additional written authorization from the Reserve Manager; see also SCP Standard Condition A.

### 4. Small Mammal Trapping

The authorized method of small mammal capture is by using live-traps (e.g., Sherman- or Tomahawk-brand) of appropriate size to avoid capture of medium-sized mammals or carnivores.

You shall have sufficient experience or training under an individual with mammal trapping experience before independently setting traps. When conducting presence/absence surveys using live-traps for small mammals (for this purpose, species in mammalian families Talpidae, Soricidae, Cricetidae, Dipodidae, Geomyidae, Heteromyidae, Muridae, and Sciuridae), you shall employ all reasonable measures to avoid injury to or mortality of individuals, particularly of special status species or subspecies (e.g., using traps of sufficient size and adjusting trap doors to create a gap to accommodate tails of kangaroo rats or pocket mice).

To avoid the risk of Hantavirus, we recommend handling mammals in open areas and using a respirator when cleaning traps. See also SCP Standard Condition L.

<sup>1</sup> U.S. Forest Service Ecological Subregions of California: <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=86840>



When working in squirrel colonies, report any burrowing owls (*Athene curicularia*) seen on the California Native Species Field Survey Form and contact Esther Burkett at [Esther.Burkett@wildlife.ca.gov](mailto:Esther.Burkett@wildlife.ca.gov) to report the owl location(s). If trapping for common diurnal squirrels, you shall follow the conditions in the Mohave ground squirrel MOU on which you are named.

Mammal species of special concern (MSSC) that are incidentally captured shall be reported to CNDDDB at least annually. You may not continue to trap at a site where MSSC or listed small mammals are captured without additional written authorization via an SCP amendment and/or a MOU for capturing and handling the species.

Report any incidental injury or mortality of a listed, candidate, or fully protected mammal, and MSSC to Scott Osborn ([Scott.Osborn@wildlife.ca.gov](mailto:Scott.Osborn@wildlife.ca.gov)) within three (3) days, and you shall provide a written report of the incident within ten (10) days via email.

**5. Mammal Species of Special Concern – Pocket Mouse, Grasshopper Mouse and Desert Woodrat**

- a. You are authorized to conduct the scientific research activities on the following California Mammal Species of Special Concern:

Northwestern San Diego pocket mouse (*Chaetodipus fallax fallax*) (pocket mouse);

Southern grasshopper mouse (*Onychomys torridus ramona*) (grasshopper mouse); and

San Diego desert woodrat (*Neotoma bryanti intermedia*) (woodrat).

- b. For the purpose of enhancing their survival, you are authorized to conduct the following research activities with the pocket mice, grasshopper mouse and woodrat (authorized MSSC):

- i. Set live traps of at least 12 inches in length to attempt to catch the woodrat, or at least 9 inches in length to attempt to catch pocket mouse or the grasshopper mouse;
- ii. Handle the captured mammals for the purpose of identifying, aging, sexing, and taking standard measurements; and
- iii. Mark with non-toxic black ink or dye on the ventral surface or by hair clipping.

- c. This research may be conducted throughout the geographic ranges of the authorized MSSC. You shall coordinate with other researchers to avoid duplicate work and undue disturbance or take of the authorized MSSC, and to share information on individually-marked individuals of the authorized MSSC.

Prior to beginning field work at a site which you previously have not studied, you shall make a reasonable, good-faith effort to determine whether any person or entity holding a permit allowing study of the authorized MSSC is working in, or has worked during the current field season in, the proposed study site. You shall not conduct work on a site under active study by another permit-holder for the authorized MSSC, unless the Department and the Service contact allow it via written correspondence. You shall check with the landowner to determine if any other researchers are permitted to work in the same site or area.

- d. You shall use Sherman, Tomahawk, or similar box-type traps. Only live-traps of sufficient length or modification to eliminate or substantially reduce the risk of tail or other injuries to kangaroo rats, pocket mice, or other incidentally captured mammals shall be used. You shall clean and sanitize all traps prior to setting out the traps at each site. To help avoid the risk of Hantavirus, we recommend handling mammals in open areas and using a respirator when cleaning traps. See also the following websites and cited documents for Hantavirus risk prevention:

- General Centers for Disease Control and Prevention (CDC) website on HPS (Hantavirus Pulmonary Syndrome): <http://www.cdc.gov/hantavirus/hps/prevention.html>
- Publication for persons working with rodents, including "ecologic" work (Methods for Trapping and Sampling Small Mammals for Virologic Testing, September 1995): [http://www.cdc.gov/hantavirus/pdf/rodent\\_manual.pdf](http://www.cdc.gov/hantavirus/pdf/rodent_manual.pdf)
- Kelt et al. (2010) on behalf of American Society of Mammalogists:



<https://www.mammalogy.org/articles/updated-guidelines-protection-mammalogists-and-wildlife-researchers-hantavirus-pulmonary-sy>

- e. You shall take all due precautions in conducting the authorized activities. You shall close all traps during daylight hours and open them only within one hour before sunset. Unless special precautions (e.g., provision of protective trap housings and thermal insulation) are taken to protect animals from inclement weather, traps will be closed during inclement or extreme weather or when the ambient temperature falls below 50 degrees Fahrenheit. Trapped individuals shall be processed as quickly as possible to reduce stress to the animals and shall be released at the location they were trapped following data collection (exception below in Condition #7i). Mammals shall be released as quickly as possible if unusual weather conditions or other circumstances suggest that they may be at risk if kept in the traps longer (e.g., excessive heat or cold).
- f. You shall set no more traps during each trapping period than can reasonably be checked and safely processed (i.e., removing captured animals from traps and handling) given the study protocol and trapping conditions. The number of traps set shall not exceed 150 traps during a trapping session. All trap locations shall be marked appropriately via GPS and/or flagging to minimize, to the greatest extent feasible, the chance of losing or overlooking traps. The Principal Investigator may request an increase in the number of traps for specific projects by emailing the Department contact.
- g. You shall immediately release at the capture-site, without handling or marking, all incidentally-captured individuals of listed or fully protected species. Include information on any incidentally captured non-target MSSC in your annual report (see Reporting section below). MSSC may be handled in order to take standard measurements and to assess reproductive and general condition of the animal. In the event that a captured listed, fully protected, or special concern mammal is marked, you may handle it to the extent necessary to identify features of the marking (e.g., numbers and colors). In the event you discern a captured listed or special-concern mammal has been marked previously by another researcher, you shall make a reasonable attempt to notify the researcher of the recapture data (See Condition #7c).
- h. You shall not conduct removal trapping or translocation of the authorized MSSC, except with the written approval of the Department contact ([Scott.Osborn@wildlife.ca.gov](mailto:Scott.Osborn@wildlife.ca.gov)).
- i. You shall not hold any individual of the authorized MSSC in captivity, except briefly to allow a trap-chilled or -heated, wet, disoriented, or slightly-injured mammal to recover. You shall not sacrifice any individual MSSC, except in the circumstance in which a debilitating injury requires humane euthanasia.
- j. Should any one serious injury (i.e., compromising survival in the wild) or mortality of the authorized MSSC occur as a result of your methods, the Department contact shall be notified as soon as possible. After the first injury or mortality to the pocket mice and grasshopper mouse, or after the second injury or mortality of the woodrat, all work shall cease after completion of that day's trap check. Before any additional work can be authorized, consultation shall occur between you and the Department contact. The Department contact will need time to consult internally and possibly externally before authorizing any additional capture work. A written report shall be sent to the Department contact in pdf format via email within 10 days of the mortality or injury event. Any serious injury or mortality shall also be discussed in your annual report (see Reporting section below).

#### 6. Burrowing Owls

Passive observation of burrowing owls for nest monitoring purposes is authorized, from a distance. You are **not authorized** to disturb, use burrow scopes or burrow cameras, or closely approach burrowing owl nests. Care shall be taken to avoid flushing owls, and to minimize risk of nest failure or predation due to disturbance of normal behavior patterns. Spotting scopes and/or binoculars shall be used from a distance to avoid disturbance to the owls and to monitor nesting stage and nesting activities.

Passive surveys (walking transects) for burrowing owl presence is authorized. The full burrowing owl habitat assessment and survey protocol shall be followed as described by Appendix C & D of the Department's Staff Report on Burrowing Owl Mitigation, dated March 7, 2012, found at this link: <https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83843&inline=true>.

In California, the burrowing owl breeding season extends from February 1 - August 31, with some variance by geographic location and climatic conditions.



The minimum of four survey visits shall occur as follows: 1) at least one site visit between 15 February and 15 April, and 2) a minimum of three survey visits, at least three weeks apart, between 15 April and 15 July, with at least one visit after 15 June.

Report any burrowing owls seen on California Native Species Field Survey Forms (CNDDDB forms), <https://www.wildlife.ca.gov/Data/CNDDDB>, and send copies of the forms and maps to Esther Burkett ([Esther.Burkett@wildlife.ca.gov](mailto:Esther.Burkett@wildlife.ca.gov)). See Reporting Requirements, below.

Burrowing owl passive relocation, burrow exclusion, translocation, and active relocation offsite, including via one-way doors at burrow entrances, is not authorized by this permit. You may not take, evict, passively relocate, move, translocate, cage, confine, or take burrowing owls into captivity without additional written State authorization from both the Regional Department office (<http://www.wildlife.ca.gov/regions/>) and the Wildlife Branch (contact [Esther.Burkett@wildlife.ca.gov](mailto:Esther.Burkett@wildlife.ca.gov), 916-531-1594).

For future reference, see Appendices E and F of the Department's Staff Report on Burrowing Owl Mitigation, dated March 7, 2012 (<https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=83843&inline>) for examples of exclusion plans and mitigation site management.

If you have any questions, the Department statewide coordinator and contact for burrowing owl research and conservation is Esther Burkett ([Esther.Burkett@wildlife.ca.gov](mailto:Esther.Burkett@wildlife.ca.gov)), 916-445-3764.

#### 7. **Relocation of Terrestrial Wildlife**

California Environmental Quality Act (CEQA) or other project-related relocation of Threatened, Endangered, Candidate, Species of Special Concern or other animal species for movement "out of harm's way" is not authorized by this SCP alone, but may be permitted via separate written authorization from the regional Department office (<http://www.wildlife.ca.gov/Regions>) for the geographic area in which the project is located. Relocation for any other purpose (e.g., research, recovery, or propagation) is not permitted without separate written State authorization via the SCP amendment process.

Field activities for biological monitoring or assessments, Lake and Streambed Alteration Agreements, and construction monitoring related to CEQA, or other project mitigation, requires separate written State authorization via the SCP amendment process if it includes capturing, handling, or relocating animals, intrusive nest monitoring methods, or broadcasting species-specific vocalizations of birds. Incidental take of Threatened, Endangered or Candidate species by a project (CEQA or other) shall be addressed through a California Endangered Species Act (CESA) 2081(b) permit (Fish and Game Code 2081(b)). You shall contact both the regional office (see Condition #9, below) and the Wildlife Branch (Esther Burkett, [Esther.Burkett@wildlife.ca.gov](mailto:Esther.Burkett@wildlife.ca.gov)) prior to beginning any specific relocation activity.

#### 8. **Reporting**

Abstracts, reports, and other publications may be submitted to the Wildlife Branch SCP Coordinator ([Justin.Garcia@wildlife.ca.gov](mailto:Justin.Garcia@wildlife.ca.gov)) and the Department contact(s) noted below, in an electronic format (such as a pdf file), which is the preferred format.

If no activities were conducted with any or all species authorized under the SCP during the previous term of your permit, you shall state this in writing in your annual report and/or RSCS form.

##### **Annual Report for Mammal Species of Special Concern:**

You are required to submit an annual report to the Department contact ([Scott.Osborn@wildlife.ca.gov](mailto:Scott.Osborn@wildlife.ca.gov)), in an electronic format, describing the results and significant findings of your research on the authorized MSSCs (San Diego desert woodrat, NW San Diego pocket mouse and Southern grasshopper mouse).

The annual reports shall be submitted on or before **January 31<sup>st</sup>** of the year following each year of research. The reports shall follow standard scientific format (Title, Date, Author(s) and Affiliation(s), Introduction, Study Area (with map), Methods, Results, Discussion, and Literature Cited). Photographs may be included as needed, or as an Appendix.

The reports shall also include, but not be limited to, the following information for all authorized MSSC:

- A. The dates of field work, site name, and names of all workers;
- B. Number of trap nights, dates, and numbers of mammals per species detected;
- C. The results of sampling efforts for each study site, in tabular format, including the USGS quad name and GPS coordinates of each trapping grid's centroid;
- D. Information on individual health, condition, sex, maturity/estimated age, size, and morphometric measurements;
- E. A map depicting the location of the survey site(s) and labeled with the APN, the USGS quad name, the county and a north arrow.
- F. A separate map or a depiction on the map required in E. above indicating the locations of listed or special concern mammal detections;
- G. Description of the study site including dominant vegetation, including photographs of sites where animals were detected;
- H. A description of the number, causes, and location of any incidental injuries or mortalities; and
- I. The date and location of reposition of each salvable or injured specimen.

**Burrowing Owl Survey Reports:**

Survey Reports described in Appendix C & D of the Department's Staff Report on Burrowing Owl Mitigation (March 7, 2012) are required as part of this permit, in addition to the reporting requirement of sending burrowing owl locations on California Native Species Field Survey forms (CNDDDB forms) to the Biogeographic Data Branch, 1807 13th Street, Suite 202, Sacramento, CA 95811. Survey reports shall be sent to the local Department Regional Office, and to Esther Burkett, via electronic format ([Esther.Burkett@wildlife.ca.gov](mailto:Esther.Burkett@wildlife.ca.gov)) or direct mailing (mailing address: Dept. of Fish and Wildlife, Nongame Wildlife Program, 1812 9th Street, Sacramento, CA. 95811). You may include copies of the CNDDDB forms and maps as an attachment or Appendix to your Burrowing Owl Survey Reports.

**Mandatory Wildlife Report (MWR) Form:**

You shall report all take of wildlife, including incidental take (e.g., capture) of non-target species, on the MWR form within 30 days of expiration of the permit. In cases where large quantities of incidental capture cannot be avoided, such as with dip nets, you may estimate numbers to the best of your ability, or use a general description of the quantity.

When you submit the MWR form, please reference your annual scientific reports for the MSSC research described above and any CNDDDB data that have been submitted to the Department. There is no need to repeat the more detailed information contained in your CNDDDB forms on the MWR form.

**Other Reports:**

You shall also provide copies of abstracts you may prepare for any papers you present, or copies of any papers you prepare for popular articles or scientific journals, or copies of any periodic, annual, or final report that you prepare or assist in preparing for a client or other third party.

For additional reporting requirements, see the MOU (e.g., for Mohave ground squirrel) on which you are named.

**California Natural Diversity Database (CNDDDB):**

For any Threatened and Endangered, Candidate, Fully Protected, or Species of Special Concern (e.g., southern grasshopper mouse) encountered and correctly identified (see the Department Special Animals list), you shall send occurrence data to the CNDDDB. You shall submit point data to the CNDDDB at least annually. Data can be submitted on the standard CNDDDB Field Survey Forms (<https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=257398&inline=1>), in an electronic spreadsheet with an attached map depicting locations of observations, or via the Online Field Survey Form (<https://www.wildlife.ca.gov/Data/CNDDDB/Submitting-Data>). Include known threats to the species in your submittal. A cross reference to your annual report(s) shall also be included.

**9. Standard Provisions**

The attached provisions shall also be followed: Standard Conditions for All Scientific Collecting Permits (2 pages dated July 01, 2017).



**10. Regional Office Notification and Report Circulation**

In addition to the regional office notification requirement in Standard Condition D, you shall send notification to the regional biologists listed below for work in the counties below. You should have a specific project before conducting any work authorized by this SCP or your MOU(s), and notify the regional contact prior to the start of each new project. Submit electronic copies of any reports produced or required by this permit or your MOU(s), within two weeks of completion, to the contact listed below, as appropriate for the counties of your work.

Inyo, Mono

Lacey Greene, [Lacey.Greene@wildlife.ca.gov](mailto:Lacey.Greene@wildlife.ca.gov), 760-872-1128

San Bernardino, Riverside, Imperial

Michael Flores, [Michael.Flores@wildlife.ca.gov](mailto:Michael.Flores@wildlife.ca.gov), 760-200-9186

For burrowing owl only:

Orange, San Diego

Christine Beck, [Christine.Beck@wildlife.ca.gov](mailto:Christine.Beck@wildlife.ca.gov), 858-637-7188

**11. Term**

This Individual SCP shall be in your possession while conducting the work described above, and is valid for three years from the date of issuance.

You may use the SCP amendment form for any modifications to your research in the future (<https://www.wildlife.ca.gov/Licensing/Scientific-Collecting>).

Minor deviation from the stipulated terms and conditions may be authorized on a case-by-case basis when approved by the Department contact unless an amendment to this permit would be required.

Should you have any questions, please contact Scott Osborn ([Scott.Osborn@wildlife.ca.gov](mailto:Scott.Osborn@wildlife.ca.gov)) and/or Justin Garcia ([Justin.Garcia@wildlife.ca.gov](mailto:Justin.Garcia@wildlife.ca.gov)).



## STANDARD CONDITIONS FOR ALL SCIENTIFIC COLLECTING PERMITS

Pursuant to California Fish and Game Code (FGC) Sections 1002, 1002.5 and 1003, and Title 14 California Code of Regulations (CCR), Section 650, the Permitholder is authorized to take and/or possess wildlife according to the authorizations, conditions and restrictions listed on the Scientific Collecting Permit (SCP or permit) issued by the California Department of Fish and Wildlife (Department). These Standard Conditions apply to all General and Specific Use level permits for all Permitholders, Authorized Individuals<sup>1</sup>, and any unnamed Field Assistants conducting activities under a SCP. The Department may revoke, suspend, or unilaterally amend or modify, or deny a permit for failure to comply with the authorizations, conditions or restrictions of the permit, or for other reasons listed in Title 14 CCR, subsection 650(s).

- A. **Possession of Identification.** Authorized Individuals named or covered on the List of Authorized Individuals shall carry in their possession a valid, government-issued photo identification card at all times when conducting any activity authorized by an SCP pursuant to Title 14 CCR, subsection 650(a)(2).
- B. **Permit Documents.** All Authorized Individuals shall carry in their possession a copy of the SCP, and all other required permit documents, pursuant to Title 14 CCR, subsection 650(a)(3).
- C. **Take and Possession Limits/ Allowances.** Permitholders shall always ensure strict compliance with limits and allowances granted by the permit. The limits described in the permit apply to the entire permit and are shared cumulative across the Permitholder and all Authorized Individuals.
- D. **Department Lands.** Prior to entering the following types of Department lands, or other managed areas, to conduct any permitted activities, the Permitholder shall first receive written authorization from the Regional Manager or their designee for the particular area, unless otherwise specifically conditioned in your SCP: Wildlife Area, Ecological Reserve (Title 14, Section 630 CCR, subsection 550(a)(4), and subsection 550(f)), Marine Managed Areas, and Marine Protected Areas (MPAs) (Title 14, CCR Section 632, and Public Resources Code 36602) (i.e., State Marine Reserve, State Marine Conservation Area, State Marine Park, State Marine Recreational Management Area), State Reserve, Marine Life Refuge (FGC Section 10500), Fish Refuge, Rockfish Conservation Area, or Cowcod Conservation Area (Title 14, Section 27.20 through 29.85, CCR).
- E. **Landowner Permission.** The Permitholder is responsible for obtaining permission from the owners and managers of all properties, whether public or private, prior to entering to conduct the activities authorized by the permit. It is the responsibility of the Permitholder to know the boundaries and managing authority of designated protected areas (e.g., State Parks, National Wildlife Refuges, National Parks, National Marine Sanctuaries, etc.).
- F. **Notification of Field Work or Activity.** The Student Permitholder, and the PI, or any Authorized Individual on an Entity and Individual permit, shall notify the Department at least 36 hours, but not more than 14 calendar days, prior to conducting permitted take and/or possession activity(ies) in the field, unless otherwise specified in the conditions of the permit. Additional requirements pursuant to Title 14 CCR, subsection 650(o) apply. The Permitholder shall complete all fields on the Notification of Field Work or Activity form (DFW 1379b) and electronically send the form to Law Enforcement Division contacts, Regional office(s), Regional Biologists, or other contacts, as specified in the permit conditions.
- G. **Reporting Requirements.** Permitholders shall carry the Mandatory Wildlife Report (MWR) form DFW 1379a, or required information fields, in a paper or electronic format while conducting activities pursuant to the permit, and shall record the information during, or upon completion of, each collecting event. Permitholders are required to submit the MWR form within 30 days following the expiration of the permit, or sooner if submitting an application to renew an SCP, whichever comes first, or as required by the Authorizations or conditions in the permit. The MWR is mandatory even if no wildlife was taken or possessed see form DFW 1379a instructions for specifics on how to complete the form).
- H. **California Endangered Species Act and Fully Protected Species.** No person shall intentionally take or possess any State-Threatened and or Endangered, or State-designated Candidate wildlife under the California Endangered Species Act, or any Fully Protected species, without a valid Memorandum of Understanding (MOU), permit, or other written authorization from the Department pursuant to Fish and Game Code Section 2050 *et seq.*, Title 14 CCR, subsections 670.7 and/or 786.9. If any Threatened, Endangered, Rare, or Candidate, or Fully Protected species are

<sup>1</sup>"Authorized Individual" means the Permitholder, the Principal Investigator, or any other person approved by the Department to independently conduct any permitted activity(ies) authorized by the permit, and who is named or covered on the permit's List of Authorized Individuals (LAI) (Title 14, CCR subsection 650(b)(2)).





taken inadvertently or incidentally (e.g., by-catch) as a result of activities authorized by an SCP, then any such wildlife shall be immediately released alive and unharmed at the site of capture without further handling, unless otherwise authorized by the Department. You shall follow additional Department notification and reporting requirements for any incidental capture, injuries and mortalities of these species, as outlined in your SCP conditions, and you may be required to temporarily cease field activities and obtain a MOU.

- I. **California Natural Diversity Database (CNDDDB).** Data collected during SCP activities for species on the Special Animals and the Special Plants, Bryophytes and Lichens lists (<https://www.wildlife.ca.gov/Data/CNDDDB/Plants-and-Animals>) should be submitted directly to the CNDDDB. Data may include field observations of wildlife listed as Threatened, Endangered, or Candidate under the California Endangered Species Act, Fully Protected species, California Species of Special Concern, or other special animals and plants. Please see the CNDDDB webpage for information on appropriate submission methods (<https://www.wildlife.ca.gov/Data/CNDDDB>). The preferred method of data submission for individual observations is the CNDDDB Online Field Survey Form. The CNDDDB accepts data in a range of other formats- see submission guidelines for alternatives and guidance for larger digital datasets.
- J. **Fishing, Hunting, and Falconry.** Sport or commercial fishing, hunting, falconry, trapping, and/or take activities authorized by another Department permit shall not occur on the same trips or time periods as scientific activities, unless otherwise authorized by this SCP.
- K. **Commercial or Personal Use.** The commercial sales, trade, or barter of wildlife taken under a SCP is prohibited, pursuant to Title 14 CCR, subsection 650(a)(5). Personal or human consumption of wildlife taken under an SCP is prohibited, unless specifically allowed by conditions of the permit.
- L. **Other Laws and Permits.** The SCP does not relieve the Permitholder or any Authorized Individual of the responsibility to comply with any other federal, tribal, state, or local law or regulation. The SCP does not relieve the Permitholder or any Authorized Individual of the responsibility to obtain any other tribal, federal, tribal, state, or local permits that may be required. This SCP is invalid unless accompanied by any other required permits for the authorized activities.
- M. **Labeling of Vessels, Vehicles, and Capture Equipment.** All traps, nets, and other capture or research equipment shall be marked with a tag or label that legibly shows the Permitholder's Identification Number (SC-ID) and/or other permit ID, as well as the word "Research," or as otherwise outlined in permit conditions, before placing the equipment in the field. Labeling of vessels is mandatory for MPAs, and labeling of other vessels, vehicles, or aircraft may be required at the Department's discretion, as outlined in your permit conditions.
- N. **Transfer of Possession.** Persons or entities receiving accidentally killed or legally acquired dead wildlife and/or parts thereof possessed pursuant to Title 14 CCR, Section 650 may be named as recipients of those wildlife on the permit itself. A completed Chain of Custody form (DFW 1379c) documenting the transfer(s) of live or dead wildlife and/or parts thereof shall accompany wildlife at all times, including during transport. Live wildlife may only be possessed with a valid permit issued by the Department. Subsequent transfers of such dead wildlife and/or parts thereof to another recipient shall also be documented and accompanied by form DFW 1379c. Reporting of such transfers via DFW 1379c shall occur as specified in the original Permitholder's permit conditions as the donor, as required form DFW 1379c for reporting by a subsequent recipient acting as a donor, or as otherwise stated by Title 14 CCR, subsection 650(p).
- O. **Release of Wildlife.** Unless otherwise authorized by the Department, all captured wildlife shall be immediately released at or near the site of capture after the permitted activity. Any wildlife authorized to be removed from the wild shall not be returned to the wild without prior written permission from the Department.
- P. **Compliance Inspection.** At the discretion of the Department, a Department wildlife officer or other Department employee may accompany persons during any permitted activity(ies) authorized by this SCP. The Permitholder shall, at all reasonable hours, allow a Department representative to enter and inspect the designated storage facility(s) and premises where live, or dead wildlife, and/or parts thereof are stored, and shall allow such Department representative to inspect reports and/or records, and the wildlife in possession.



State of California – Department of Fish and Wildlife  
**2018 SCIENTIFIC COLLECTING PERMIT APPLICATION**  
**AUTHORIZATIONS AND CONDITIONS**  
DFW 1379 (REV. 10/31/17)

**NUMBER AUTHORIZATIONS ISSUED BY THE DEPARTMENT**

For all freshwater species, except vernal pool species (see #4 below), you must provide detailed justification.

**WILDLIFE AUTHORIZATIONS**

4. You may take terrestrial invertebrates and vernal pool invertebrates. Threatened or Endangered Species inadvertently collected shall be immediately released and reported to the Department of Fish and Wildlife, Wildlife Branch, Scientific Collecting Permit Biologist, 1812 9th St., Sacramento, CA 95811 on copies of California Native Species Survey (CNSFS) forms (see **Standard Condition G**) within three business days. Authorized methods of take: hand and net.
- 5a. You may capture and release an unlimited number of amphibians and reptiles, only for the purposes of identification and documentation. All animals captured shall be released alive and unharmed at the capture site and may not otherwise be removed from the wild unless authorized by the Department. Specimens of Threatened or Endangered Species inadvertently collected shall be immediately released and reported to the CNDBB (see **Standard Condition G**). Authorized methods of trapping are hand, dip net, minnow seine, lizard noose, snake tongs and snake hook.
- 5b. You may purposefully capture (see **Standard Condition L**) and release an unlimited number of small mammals, but only for the purposes of identification and documentation. You shall immediately release all captured individuals alive, unharmed, and unmarked at the site of capture and shall not otherwise handle these animals without additional authorization from the Department.
6. You may salvage dead amphibians, reptiles, and mammals. You shall leave specimens that are unsuitable for donation at the site or shall completely destroy them through burial or incineration. You shall obtain additional permission to salvage on private or public property from the landowner or custodian of that property. You shall tag each salvaged specimen with the following information: (a) date of salvage and location of the specimen; (b) name of the person who salvaged the specimen; and (c) the permit number under which the specimen was salvaged. You shall deposit all salvaged specimens in a public scientific or educational institution within one month of acquisition.
7. You may take birds in accordance with your federal permit(s). The Department may require additional or modified conditions that will be noted on your SCP. You shall immediately release any inadvertently-taken Threatened or Endangered Species and report their capture to the CNDBB (see **Standard Condition G**).
8. You may take species that are only federally-listed in accordance with your existing federal permit(s). The Department may require additional or modified conditions that will be noted on your SCP. If you are using traps to take mammals, you must follow Standard Condition L. You shall immediately release any Threatened or Endangered Species not authorized in your federal permit and report their capture to the CNDBB (see **Standard Condition G**).
9. You may take species that are both federally-listed AND CESA-listed, CESA-Candidate, and/or Fully Protected in accordance with your existing federal permit(s) and your State MOU(s) or permits. You shall immediately release any Threatened or Endangered Species not authorized in your federal permit and State MOU or permit, and report their capture to the CNDBB (see **Standard Condition G**).





State of California - Natural Resources Agency  
DEPARTMENT OF FISH AND WILDLIFE  
Wildlife Branch  
1812 9<sup>th</sup> Street  
Sacramento, CA 95811  
<http://www.wildlife.ca.gov/nongame>

EDMUND G. BROWN JR., Governor  
CHARLTON H. BONHAM, Director



June 26, 2018

Karla Flores  
Principal Investigator  
Environmental Science Associates

Dear Ms. Flores,

In response to your written request received on March 23, 2018, the Department of Fish and Wildlife (Department) hereby authorizes you to take California Endangered Species Act (CESA)-listed threatened Mohave ground squirrel (*Xerospermophilus mohavensis*) for scientific research purposes related to conservation and recovery of the species.

The authorization is in the form of a Memorandum of Understanding (MOU) between you and the Department. The MOU is a special permit prepared pursuant to CESA. For the purpose of this agreement, we consider you both the executive signatory and the principal investigator.

Enclosed are two originals of the Mohave ground squirrel MOU, including a List of Authorized Individuals (LAI). If you concur with the terms of the MOU, please sign and date both CESA MOU documents in the appropriate space on page seven. Retain the LAI and one fully signed MOU for your records and as a master for making copies for your field personnel to ensure compliance with all terms and conditions. Please return the other signed MOU to the address in the letterhead, with attention to: Esther Burkett.

Should you have any questions about the MOU, please contact Dr. Scott Osborn, Senior Environmental Scientist (Specialist), by e-mail at [Scott.Osborn@wildlife.ca.gov](mailto:Scott.Osborn@wildlife.ca.gov) or by telephone at (916) 324-3564.

Sincerely,

Erin Chappell, Environmental Program Manager  
Wildlife Branch, Nongame Wildlife Program

cc: Scott Osborn, Esther Burkett  
Wildlife Branch, Nongame Wildlife Program



State of California - Natural Resources Agency  
DEPARTMENT OF FISH AND WILDLIFE  
Wildlife Branch  
1812 9<sup>th</sup> Street  
Sacramento, CA 95811  
<http://www.wildlife.ca.gov>

EDMUND G. BROWN JR., Governor  
CHARLTON H. BONHAM, Director



Expiration Date: December 31, 2021

**Attachment 2  
LIST OF AUTHORIZED INDIVIDUALS**

**Karla Flores (SC-010572)  
Principal Investigator  
Environmental Science Associates**

**Research on Mohave Ground Squirrel in California  
June 26, 2018**

1. Individuals authorized to conduct activities pursuant to this California Endangered Species Act (CESA) Memorandum of Understanding (MOU) for scientific research on Mohave ground squirrel (*Xerospermophilus mohavensis*):

**Principal Investigator: Karla Flores.**

Independent Researchers: None listed at this time.

Field Assistants: None listed at this time.

2. When approved by the Department, Independent Researchers may conduct activities pursuant to this MOU without the direct supervision of the Principal Investigator, and as authorized by the appropriate federal permit(s), when applicable.
3. Field Assistants listed must work under the direct, on-site supervision of the Principal Investigator or an Independent Researcher, and may assist on survey and capture efforts, until such time as the Principal Investigator can certify in writing to the Department, and the Department concurs in writing, that the individual may work independently. Field Assistants should have sufficient training or experience with small mammal trapping in general prior to conducting any activities under this MOU.

June 26, 2018  
Date

  
\_\_\_\_\_  
Scott D. Osborn, Ph.D.  
Senior Environmental Scientist

This List of Authorized Individuals is valid only if dated on or after the issuance date of the MOU.



June 26, 2018

**ISSUED BY THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE on June 26, 2018.**

**THE PARTIES HAVE EXECUTED THIS MOU TO BE IN EFFECT AS OF THE DATE LAST WRITTEN BELOW.**



Erin Chappell, Environmental Program Manager  
Wildlife Branch, Nongame Wildlife Program

**ACKNOWLEDGMENT**

The undersigned: (1) warrants that he or she is acting as the Principal Investigator, (2) acknowledges receipt of this MOU, and (3) agrees to comply with all terms and conditions of the MOU.

---

Karla Flores  
Principal Investigator  
Environmental Science Associates  
1942 N. Deerpark Dr. Apt. 43  
Fullerton, CA 92831  
(619)972-4319  
Kflores2004@gmail.com

---

Date



State of California - Natural Resources Agency  
DEPARTMENT OF FISH AND WILDLIFE  
Wildlife Branch  
1812 9<sup>th</sup> Street  
Sacramento, CA 95811  
<http://www.wildlife.ca.gov>

EDMUND G. BROWN JR., Governor  
CHARLTON H. BONHAM, Director



Expiration Date: December 31, 2021

## MEMORANDUM OF UNDERSTANDING

**Phil Leitner (SC-003061)**  
Principal Investigator

**Research on Mohave Ground Squirrel in California**  
**December 2, 2016**  
**(This supersedes the MOU issued on October 25, 2012)**

This Memorandum of Understanding (MOU) is issued pursuant to California Code of Regulations Title 14 Section 783.1(a), and Fish and Game Code (FGC) Section 2081(a) of the California Endangered Species Act (CESA) whereby through permits or memorandums of understanding, the Department of Fish and Wildlife (Department) may authorize individuals, public agencies, universities, zoological gardens, and scientific or educational institutions, to import, export, take, or possess any endangered species, threatened species, or candidate species for scientific, educational, or management purposes.

This MOU is a legal instrument connected to your Scientific Collecting Permit (SCP; SC-003061) pursuant to Fish and Game Code Section 1002 and CCR Title 14 Section 650, referenced herein for the purpose of linking the two regulatory documents and all authorized research activities.

### **Authorized Species and Research Activities**

For the purpose of enhancing its survival, the Department authorizes you to conduct the following scientific research methods and activities on the CESA-listed threatened Mohave ground squirrel (*Xerospermophilus mohavensis*) (squirrel):

- a) set live traps of at least 12 inches in length to attempt to catch the squirrel;
- b) handle the captured squirrels for the purpose of identifying, aging, sexing, and taking standard measurements;
- c) mark the squirrel by clipping fur, or by placing a mark on the ventral surface with non-toxic indelible ink;
- d) collect a piece of tissue from the margin of the ear for genetic analyses;
- e) tagging ears with monel metal tags;
- f) collaring with radio transmitters; and
- g) implanting transponder tags subcutaneously.

This research is authorized in response to your proposal dated October 12, 2015, on file with the Nongame Wildlife Program, and may be conducted throughout the geographic range of the squirrel in accordance with the conditions below.

*Conserving California's Wildlife Since 1870*



You shall coordinate with other squirrel researchers to avoid duplicate work and undue disturbance or take of the squirrel, and to share information on individually-marked individuals of the squirrel.

The Department contact for this research is Dr. Scott Osborn,  
[Scott.Osborn@wildlife.ca.gov](mailto:Scott.Osborn@wildlife.ca.gov), 916-324-3564, address in the letterhead above.

### **General Conditions**

1. Prior to beginning field work at a site which you previously have not studied, you shall make a reasonable, good-faith effort to determine whether any person or entity holding a CESA MOU or permit allowing study of the authorized squirrel is working in, or has worked during the current field season in, the proposed study site. You shall not conduct work on a site under active study by another permit holder for the authorized squirrel, unless the Department contact allows it via written correspondence. You shall check with the landowner to determine if any other researchers are permitted to work in the same site or area.
2. You shall follow the Department's *Mohave Ground Squirrel Survey Guidelines* (dated January 2003; revised 2010), while conducting work with the squirrel. The above-referenced protocol for visual and trapping surveys may be modified with the written approval of your Department contact.
3. You shall use Sherman, Tomahawk, or similar box-type traps. Only live-traps of sufficient length or modification to eliminate or substantially reduce the risk of tail or other injuries to kangaroo rats, pocket mice, or other incidentally captured mammals shall be used. You shall clean and sanitize all traps prior to setting out the traps at each site. To help avoid the risk of Hantavirus, we recommend handling mammals in open areas and using a respirator when cleaning traps. See also the following websites and cited documents for Hantavirus risk prevention:
  - General Centers for Disease Control and Prevention (CDC) website on HPS (Hantavirus Pulmonary Syndrome):  
<http://www.cdc.gov/hantavirus/hps/prevention.html>
  - Publication for persons working with rodents, including "ecologic" work (Methods for Trapping and Sampling Small Mammals for Virologic Testing, September 1995):  
[http://www.cdc.gov/hantavirus/pdf/rodent\\_manual.pdf](http://www.cdc.gov/hantavirus/pdf/rodent_manual.pdf)
  - Kelt et al. (2010) on behalf of American Society of Mammalogists:  
<http://www.mammalsociety.org/uploads/Kelt%20et%20al%202010.pdf>
4. In attempting to capture the squirrel, you shall protect each trap from excessive heating by placing and maintaining it in the shade of a non-metal structure. You may

place open-mesh traps without such a shelter, unless squirrels captured in these traps may suffer from heat stress. You shall close all traps during hours of darkness, unless you are using the traps to capture nocturnal mammals, and during daylight periods when the ambient temperature in the shade at ground level exceeds 90 degrees Fahrenheit. You shall check traps set to capture the squirrel at least once every four hours.

5. You shall set no more traps during each trapping period than can reasonably be checked and safely processed (*i.e.*, removing captured animals from traps and handling) given the study protocol and trapping conditions. The number of traps set shall not exceed 100 traps per independent researcher during a trapping session, including the Principal Investigator and authorized Independent Researchers
6. You may collect a 1-2 millimeter single tissue sample from the margin of the external ear (pinna) of the squirrel. You shall apply antibiotic cream to the site of the ear wound. Handling time of individuals shall be minimized and measures shall be taken to avoid excessive bleeding or infection and the transfer of infectious agents between squirrels. Squirrels exhibiting signs of excessive physiological stress shall be released immediately. Genetic samples shall only be collected in areas identified by Dr. Marjorie Matocq (University of Nevada, Reno, NV), and shall be collected, stored and shipped to Dr. Matocq, as instructed by her for ongoing population genetics analyses.
7. You shall not hold any individual squirrel in captivity, except briefly to allow a trap-chilled or -heated, wet, disoriented, or slightly-injured squirrel to recover. You shall not sacrifice any individual squirrel, except in the circumstance in which a debilitating injury requires humane euthanasia.
8. You shall immediately release at the capture-site, without handling or marking, all incidentally-captured individuals of species listed as Threatened, Endangered, Candidate, or Fully Protected other than the authorized squirrel. Mammal Species of Special Concern (MSSC) may be handled in order to take standard measurements and to assess reproductive and general condition of the animal. You may also take MSSC small mammals as authorized under your SCP and federal permit. In the event that a captured listed, Fully Protected, or special concern mammal is marked, you may handle it to the extent necessary to identify features of the marking (*e.g.*, numbers and colors). In the event you discern a captured listed, Fully Protected, or special concern mammal has been marked previously by another researcher, you shall make a reasonable attempt to notify the researcher of the recapture data (see Condition #1). Include information on any incidentally captured Threatened, Endangered, Candidate, Fully Protected, and special concern species in your annual report (see Reporting section below).
9. You shall not conduct removal trapping or translocation of the authorized squirrel, except with the written approval of the Department contact.



10. All surveying and capture/handling methods utilized shall follow standard practices and ensure no undue disturbance, harm, or harassment to the squirrel or other sensitive sympatric species. The number of squirrels allowed to be seriously injured (*i.e.*, compromising survival in the wild) or killed during permitted activities is zero (0) in any calendar year. Any incidental serious injury or mortality of a squirrel, or CESA-listed or Fully Protected species shall be reported to the Department contact. In the event the number of squirrels allowed to be seriously injured or killed is exceeded during the performance of permitted activities, you shall:
  - a. Immediately notify the Department contact by telephone.
  - b. All work shall cease after completion of that day's trap check, until reauthorized by the Department contact. After analysis of the circumstance of injury or mortality, the Department contact may revoke, amend, or reauthorize this MOU.
  - c. A written report shall be sent to the Department contact via e-mail within 10 days of the mortality event.
  - d. In the written notification, you shall describe the circumstances that led to the injury or mortality. A description of recommended changes in methods that will be implemented to reduce the likelihood of such injury or mortality from happening again should be included, if appropriate. All injuries and mortalities shall also be summarized in the annual report that is subsequently submitted (see Reporting below).
11. Within one (1) month of acquisition, any inadvertent casualties or salvaged authorized squirrel specimens shall be donated to a public scientific institution in California where access to collection materials and information is provided willingly and free of charge (e.g., Natural History Museum of Los Angeles County, Los Angeles, CA), unless otherwise authorized by the Department contact.
12. You shall securely label each salvaged squirrel and collected squirrel tissue sample with the following information: (a) date of salvage/collection and location of the specimen (GPS coordinates and datum); (b) species name; (c) unique identification number; (d) name and affiliation of the person who salvaged/collected the specimen; and (e) the permit number(s) and expiration date(s) under which the specimen was salvaged. A copy of this MOU shall accompany the samples or salvaged specimens at all times, to validate the specimens were taken pursuant to this MOU.
13. If you identify a die-off or a substantial portion of sick or infected individuals at a site, you shall notify the primary Department contact and Dr. Deana Clifford (Wildlife Investigations Lab), (916) 358-2378, [Deana.Clifford@wildlife.ca.gov](mailto:Deana.Clifford@wildlife.ca.gov), as soon as possible (but no more than 48 hours after the discovery) with the following details: date, location, approximate number, physical condition, possible cause,

and disposition if collected. Salvage of sick or moribund squirrels requires prior approval by the primary Department contact.

### **Reporting Requirements<sup>1</sup>**

#### **14. Annual Report:**

You are required to submit an annual report(s) to the Department contact ([Scott.Osborn@wildlife.ca.gov](mailto:Scott.Osborn@wildlife.ca.gov)) in an electronic format, describing the results and significant findings of your squirrel research. The annual reports must be submitted on or before **January 31<sup>st</sup>** of the year following each year of research. The reports must follow standard scientific format (Title, Date, Author(s) and Affiliation(s), Introduction, Study Area (with map), Methods, Results, Discussion, and Literature Cited). Photographs may be included as needed, or as an Appendix.

The annual report(s) shall also include, but not be limited to, the following:

- a. A map depicting the location of the survey site(s) and labeled with the APN, the USGS quad name, the county and a north arrow.
- b. A separate map or a depiction on the map required in a. above indicating the locations of squirrel detections.
- c. The results of sampling efforts for each study site, in tabular format, including the USGS quad name, UTM of each trapping grid's centroid, description of the study site including dominant vegetation, number of trap nights, dates, and number of squirrels detected (including information on any incidentally-captured threatened, endangered, candidate, fully protected, and special concern species).
- d. A description of the number and causes of mortalities or injuries by species; and the name of the repository of each salvaged dead or injured specimen.

If no activities were conducted with the squirrel during the previous year, please state this in writing in your annual report.

#### **15. Other Reports:**

In addition, you shall also provide copies of abstracts you may prepare for any papers you present, or copies of any papers you prepare for popular articles or scientific journals, or copies of any periodic, annual, or final report that you prepare or assist in preparing for a client or other third party, that involves work conducted under the authority of this MOU. Abstracts, reports, and other publications may be submitted to the Department contact in an electronic format (such as a pdf file), which is the preferred format. If submitting hard copies, please include two copies of each publication.

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<sup>1</sup> **NOTE:** Do not duplicate data or reports submitted by other MOU-holders for the same research projects.



16. California Natural Diversity Database (CNDDDB):

For any Threatened or Endangered, Candidate, Fully Protected, or Species of Special Concern encountered and correctly identified (see the Special Animals list (<http://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=109406&inline=1>)), you shall send occurrence data to the CNDDDB. You shall submit point data to the CNDDDB at least annually. Data can be submitted on the standard CNDDDB Field Survey Forms (<https://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=25739&inline=1>), in an electronic spreadsheet with an attached map depicting locations of observations, or via the CNDDDB Online Field Survey Form ([http://www.dfg.ca.gov/biogeodata/cnddb/submitting\\_data\\_to\\_cnddb.asp](http://www.dfg.ca.gov/biogeodata/cnddb/submitting_data_to_cnddb.asp)). Include known threats to the species in your submittal. A cross reference to your annual reports shall also be included.

17. Mohave Ground Squirrel – Biogeographic Information and Observation System (BIOS) and CNDDDB:

This MOU also requires an electronic summary of all Mohave ground squirrel surveys, including captures, visual or auditory detections, and negative survey results in the format specified by the Department (see "Mohave ground squirrel presence/absence surveys" Excel spreadsheet (dated March 31, 2014)) for entry into the Department's BIOS database for Mohave ground squirrel.

The spreadsheet may be accessed from CDFW's Document Library at the following URL: <http://nrm.dfg.ca.gov/FileHandler.ashx?DocumentID=133014>

When completed properly, the spreadsheet satisfies the requirements for reporting to the CNDDDB and BIOS for your Mohave ground squirrel survey results (including both positive and negative data). However, an annual scientific report and maps are still required for your Mohave ground squirrel research, as outlined in Condition #14 above.

18. Report of Specimens Captured or Salvaged (RSCS):

When you submit the required RSCS form or other special report required by your SCP, you may simply reference your annual scientific reports for the authorized squirrel and CNDDDB forms that have been submitted to the Department. There is no need to repeat the more detailed information contained in the annual reports for the authorized squirrel and CNDDDB forms on the RSCS form; however, any incidental take (e.g., capture) of non-target species as a result of your field activities shall be reported on the RSCS form.

19. Reporting Compliance and Data Exchange:

It is mutually understood that there will be a free exchange of data and information during the course of study covered by this MOU. Draft documents, raw/field data, photographs, notes, and other information resulting from work conducted under the authority of this MOU shall be submitted to the Department contact upon request. Failure to comply with reporting requirements may result in non-renewal or suspension/revocation of this MOU.

**Standard Provisions**

Standard MOU Provisions (see Attachment 1; dated February 18, 2014) shall also be followed, in addition to the conditions of your SCP (SC-003061), including the Standard Conditions for all SCP holders (dated October 2, 2015) attached thereto.

**List of Authorized Individuals**

A List of Authorized Individuals (LAI) has been designated under the terms of this MOU (Attachment 2). The Principal Investigator may request to add or change Independent Researchers or Field Assistants to be named on the LAI, to perform field studies as described above, by submitting to the Department contact the following: a) name of the individual; b) species the individual is working with; c) research activities the individual will conduct; d) whether or not these research activities will be conducted independently, or under direct supervision; and e) statements of qualifications that describe the individual's experience with the authorized species, and experience with the methods to be employed in the study. Letters of recommendation may also be required as supplemental information. A current LAI shall be in possession of all field personnel while conducting work authorized by this MOU.

**Term**

This MOU shall be in your possession, along with a current SCP, while conducting the work described above, and is valid through **December 31, 2021**, provided your SCP is current and valid. Should you have any questions, please contact Dr. Scott Osborn.



**ISSUED BY THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE on  
December 2, 2016.**

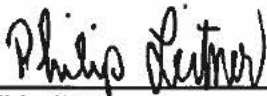
**THE PARTIES HAVE EXECUTED THIS MOU TO BE IN EFFECT AS OF THE DATE  
LAST WRITTEN BELOW.**



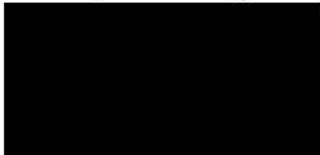
\_\_\_\_\_  
T.O. Smith, Branch Chief  
Wildlife Branch

**ACKNOWLEDGMENT**

The undersigned: (1) warrants that he or she is acting as the Principal Investigator, (2) acknowledges receipt of this MOU, and (3) agrees to comply with all terms and conditions of the MOU.



\_\_\_\_\_  
Phil Leitner  
Principal Investigator



Dec. 15, 2016

Date



State of California - Natural Resources Agency  
 DEPARTMENT OF FISH AND WILDLIFE  
 Wildlife Branch  
 1812 9<sup>th</sup> Street  
 Sacramento, CA 95811  
<http://www.wildlife.ca.gov>

EDMUND G. BROWN JR., Governor  
 CHARLTON H. BONHAM, Director



**Expiration Date: December 31, 2021**

**Attachment 2  
 LIST OF AUTHORIZED INDIVIDUALS**

**Phil Leitner (SC-003061)  
 Principal Investigator**

**Research on Mohave Ground Squirrel in California  
 June 28, 2017  
 (This supersedes the LAI issued on March 8, 2017)**

1. Individuals authorized to conduct activities pursuant to this California Endangered Species Act (CESA) Memorandum of Understanding (MOU) for scientific research on Mohave ground squirrel (*Xerospermophilus mohavensis*):

**Principal Investigator: Phil Leitner**

Independent Researchers: John H. Harris, Barbara M. Leitner, Alexander D. Brown, Karla Flores, and Steven Chen

Field Assistants: Carie Wingert, Adam Walters, Christopher Fabry, Danielle Dillard, Greg Winton, Ryan Mann, Phillip Scarry, Loren Dunham, Carolyn Daman, Thomas Dayton, Stephanie Hines, Angelique Herman, Marianne Huizing, Nick Regoli, Chris Taylor, and Erica Orcutt

2. Independent Researchers may conduct activities pursuant to this MOU without the direct supervision of the Principal Investigator, and as authorized by the appropriate federal permit(s), when applicable.
3. Field Assistants must work under the direct, on-site supervision of the Principal Investigator or an Independent Researcher, and may assist on survey and capture efforts, until such time as the Principal Investigator can certify in writing to the Department, and the Department responds favorably, that the individual may work independently. Field Assistants should have sufficient training or experience with small mammal trapping in general prior to conducting any activities under this MOU.

6/28/2017  
 Date

**Scott D Osborn**  
 Scott D. Osborn, Ph.D.  
 Senior Environmental Scientist

Digitally signed by Scott D Osborn  
 DN: CN=Scott D Osborn, C=US, OU=CDFW-WLB,  
 O=CDFW, E=scott.osborn@wildlife.ca.gov  
 Reason: I am the author of this document  
 Location:  
 Date: 2017-06-28 15:44:02

This List of Authorized Individuals is valid only if dated on or after the issuance date of the MOU.





18

AD

STATE OF CALIFORNIA  
 DEPARTMENT OF FISH AND WILDLIFE  
**SCIENTIFIC COLLECTING PERMIT  
 APPLICATION FEE**  
 See permit for validity dates.



D-0022504762-8

GO ID: 1041146377

STATE ID: [REDACTED]

KARLA L FLORES



Doc No: D-0022504762-8  
 Trans: 000000017128905  
 285577368

Outlet No: 310001-001  
 3/29/2018 4:40:18 PM

Item	Fee*
Scientific Collecting App Fee	\$108.92
<b>Total:</b>	<b>\$108.92</b>

\*Includes any applicable application fees, agent handling fees and license buyer surcharge.

--- End of Document D-0022504762-8 ---

STATE OF CALIFORNIA  
 DEPARTMENT OF FISH AND WILDLIFE  
 3/28/2018 4:40 PM  
 CDFW License and Revenue Branch  
 Outlet No: 310001-001  
 Clerk: MIRAMADAN  
**Purchase Receipt**  
 Trans #17128905

KARLA L FLORES  
 GO ID: 1041146377

Item Name	Amount
Scientific Collecting App Fee	108.92
<b>Customer Total</b>	<b>\$108.92</b>

**CDFW Item Fees SubTotal:** \$108.92  
**Transaction Total:** \$108.92

CHECK 230  
 Tender Amount: \$108.92  
 CHANGE: (\$0.00)  
 Total Amount: \$108.92

STATE OF CALIFORNIA  
 DEPARTMENT OF FISH AND WILDLIFE  
 11/5/2018 3:33 PM  
 CDFW License and Revenue Branch  
 Outlet No: 310001-001  
 Clerk: JHERRERA20  
**Purchase Receipt**  
 Trans #18729598

KARLA L FLORES  
 GO ID: 1041146377

Item Name	Amount
Scientific Collecting App Fee	324.75
<b>Customer Total</b>	<b>\$324.75</b>

**CDFW Item Fees SubTotal:** \$324.75  
**Transaction Total:** \$324.75

CREDIT CARD 66939C \$324.75  
 Tender Amount: \$324.75  
 CHANGE: (\$0.00)  
 Total Amount: \$324.75



## **SCIENTIFIC COLLECTING PERMIT/AMENDMENT ISSUANCE LETTER**

Your Scientific Collecting Permit (SCP) or SCP Amendment is enclosed and must be in immediate possession while collecting. You may not have been authorized for everything requested. Please read carefully the Conditions, Authorizations, and Approvals section of the enclosed permit or amendment and the descriptions of the enclosed Number Authorizations and Mandatory Conditions page.

### **VALID DATES OF PERMIT AND PERMANENT IDENTIFICATION NUMBER**

Your permanent Scientific Collecting Identification Number (SCIN), which is prefaced with SC- followed by six digits, and the valid dates (from and through) of your permit/amendment are both located on the top portion of your permit/amendment in the DEPARTMENT USE ONLY section. The stamp that is affixed to your SCP is used only for the Department of Fish and Wildlife's (Department) internal accounting purposes and the number and date on the stamp does not apply to the identification or term of your SCP.

### **PRIOR NOTIFICATION OF INTENT TO COLLECT IS MANDATORY**

You must notify the Department regional office at least 24 hours prior to conducting the activity authorized by your SCP in the field. Complete and submit via fax the Notification of Intent to Collect for Scientific Purposes form (FG1379f), which is available online at [www.dfg.ca.gov/licensing/specialpermits/](http://www.dfg.ca.gov/licensing/specialpermits/), to the regional office whose boundaries surround the area where you will be collecting. Use the map on the form to determine the appropriate regional office to contact and fax number to use.

### **REPORTING REQUIREMENTS**

You must carry the Report of Specimens Captured or Salvaged (FG 1379a) with your SCP and any amendments while collecting. The report must be filled out immediately upon completion of each collecting trip. The disposition portion of the report may be filled out when final disposition of the animals is known. Section 650(i), Title 14, of the California Code of Regulations (CCR) requires that SCP permittees submit a report within 30 days of the expiration of the permit or upon submitting an application to renew a SCP. The report and instructions for completing it are available at [www.dfg.ca.gov/licensing/forms/](http://www.dfg.ca.gov/licensing/forms/) in a fill and save format. Upon completion of this electronic report, print a copy and attach it to your SCP application or you may send an electronic copy to the License and Revenue Branch at [spu@dfg.ca.gov](mailto:spu@dfg.ca.gov). Each individual to whom a SCP is issued must provide their own Report of Specimens Captured or Salvaged. If you are not renewing your permit, you are still required to submit a final report within 30 days after of the expiration of your SCP.

If you do not collect any specimens or collect the same individuals as another permittee, you still need to submit a report. Enter a single line indicating that no specimens were collected or indicate the permittee's name and SCP number for the specimens already reported. **DO NOT DUPLICATE DATA.**

The Department also requires that you record your field observations of Threatened, Endangered, or Special Concern species for addition to the California Natural Diversity Database. The California Native Species Field Survey Form, instructions, and other acceptable formats, including digital, are available at [www.dfg.ca.gov/biogeodata/cnddb/submitting\\_data\\_to\\_cnddb.asp](http://www.dfg.ca.gov/biogeodata/cnddb/submitting_data_to_cnddb.asp).

### **AMENDMENTS TO YOUR SCP**

If you want to request additional authorizations to your existing SCP or your affiliation changes, or if adding/removing employees or volunteers (for qualified entities), you must complete and submit a Scientific Collecting Permit Amendment Form (FG1379e), which is available online at [www.dfg.ca.gov/licensing/forms/](http://www.dfg.ca.gov/licensing/forms/). You may not begin new collection activity until you have received an approved validated amendment.

### **WHERE DO I GET FORMS?**

The SCP Amendment Form, Notification of Intent to Collect for Scientific Purposes form, Report of Specimens Captured or Salvaged, Special Animals List or California Native Species Field Survey form may be accessed at the Department's websites listed above or by contacting the Department of Fish and Wildlife, License and Revenue Branch at 1740 N. Market Blvd., Sacramento, CA 95834, telephone (916) 928-5849 or e-mail [spu@dfg.ca.gov](mailto:spu@dfg.ca.gov).

## RABIES EXPOSURE INFORMATION

The California Department of Public Health recommends precautions when handling specimens of wildlife that pose high-risk exposure to rabies. Species that represent a high risk for human rabies exposure (skunks, bats, foxes, raccoons, wild felids and canids) should be handled with the following precautions:

- Specimen handlers are strongly encouraged to obtain rabies pre-exposure prophylactic immunizations.
- Protective gloves and a face shield should be worn when collecting or handling specimens.
- Saliva and neurological tissue should be considered infectious. Gloves and instruments that may be contaminated with saliva or neurological tissue must be treated as infectious.
- If any injuries resulting in broken skin are contaminated with saliva or neurological tissue from a high-risk dead specimen, the person should immediately consult a physician about appropriate rabies prophylactic treatment.
- Specimens should be prepared by a taxidermist to reduce the potential risk.



California Natural Resources Agency  
DEPARTMENT OF FISH AND WILDLIFE  
**AUTHORIZATIONS AND CONDITIONS**

**STANDARD CONDITIONS FOR ALL SCIENTIFIC COLLECTING PERMIT (SCP) HOLDERS**

- A. No collections may be made in any Marine Protected Area ([www.dfg.ca.gov/mlpa/mpa\\_summary.asp](http://www.dfg.ca.gov/mlpa/mpa_summary.asp)) (i.e. State Marine Reserve, State Marine Conservation Area, State Marine Park, State Marine Recreational Management Area), State Reserve, Marine Life Refuge, Fish Refuge, Wildlife Area, Ecological Reserve, Rockfish Conservation Area, or Cowcod Conservation Area without approval from both the Department through an SCP with specific concurrence from the Department manager for that area.
- B. Pursuant to California Fish and Game Code (FGC), Sections 1002 and 1003, and Section 650, Title 14, of the California Code of Regulations (CCR) the permittee is authorized to collect specimens of fish and wildlife according to the conditions listed on this permit. **The permittee must be present and carry this Scientific Collecting Permit, any amendments to the permit and additional authorizations (letters or MOUs) at all times when collecting. These forms must be in possession when collecting and must be shown upon request to any person authorized to enforce Fish and Game laws and regulations.**
- C. **You must carry the Report of Specimens Captured or Salvaged (FG1379a) with your Scientific Collecting Permit and any amendments while collecting.** The report must be filled out immediately upon completion of each collecting trip. The disposition portion of the report may be filled out when final disposition of the animals is known. Pursuant to Section 650(i), Title 14, of the CCR, permittees are required to submit a report within 30 days after the expiration of the permit or sooner if submitting an application to renew a SCP, whichever comes first.
- D. **You must notify the local Department office of the event and location of your activities prior to collecting.** Notification must be made during normal business hours, at least 24 hours prior to collecting and can be made using the Notification of Intent to Collect for Scientific Purposes form (FG 1379f) available at [www.dfg.ca.gov/licensing/specialpermits/](http://www.dfg.ca.gov/licensing/specialpermits/). You may use your own template or format as long as the required information shown on the form is provided.
- E. This permit does not relieve the permittee of the responsibility to obtain any other permits, or comply with any other Federal, State, or local laws or regulations. It is the responsibility of the permittee to know the boundaries and managing authority of specially designated protected areas or sanctuaries.
- F. No other sport or commercial fishing activities or collection of unauthorized species is allowed on the same trips or time periods as scientific collection activities.
- G. You must submit data to the California Natural Diversity Database (CNDDDB) in an acceptable format or complete California Native Species Field Survey (CNSFS) form for any Threatened, Endangered, or Special Concern Species captured. Mail to the address listed on the CNSFS form. The CNSFS form and other accepted formats are at [www.dfg.ca.gov/biogeodata/cnddb/submitting\\_data\\_to\\_cnddb.asp](http://www.dfg.ca.gov/biogeodata/cnddb/submitting_data_to_cnddb.asp).
- H. Once removed from the wild, animals may not be returned to the wild without prior written permission from the Department.
- I. Marking or tagging of any kind is not authorized by this permit unless it is specifically requested by the permittee and authorized in writing by the Department.
- J. Use of pitfall traps is not authorized by this permit unless it is specifically requested by the permittee and authorized in writing by the Department.
- K. To band or to take birds protected by the Migratory Bird Treaty Act, **you must attach a copy of all current federal permit(s) authorizing this activity with your SCP application.**
- L. You must mark each trap set to capture mammals with your Scientific Collecting Identification Number (SCIN) before placing the trap in the field. Marking traps with an identification number is a requirement of FGC Section 4004. The SCIN shall be stamped clearly on the trap or on a metal tag attached directly to any part of the trap (Section 465.5(g), Title 14, of the CCR). Tagging the trap allows the person to remove the tag before another permittee uses the same trap and attaches his/her own tag.

**NUMBER AUTHORIZATIONS REQUESTED BY PERMITTEE / NUMBER AUTHORIZATIONS ISSUED BY DEPARTMENT**

For all freshwater species, except vernal pool species (see #4 below), you must provide detailed justification.

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**MARINE AUTHORIZATIONS**

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1. You may take or possess marine fishes (excluding salmon, steelhead, striped bass, and sturgeon - request authorization to collect these under **Anadromous Fishes**) **not to exceed sport fishing bag limits; sport fishing seasons and size limits shall apply.** Cowcod, giant sea bass, garibaldi, gulf grouper, broomtail grouper, and white shark may not be taken. Authorized methods of take: hand, hook and line, seine (except beach seine), dip nets, spear, dredge, hand tools, and trap (when marked with Scientific Collecting Identification Number (SCIN)). You shall mark buoys with your SCIN, to be maintained in a readable condition.
2. You may take or possess marine aquatic plants **not to exceed 10 pounds wet weight in the aggregate.** Eel grass, surf grass, and sea palm may not be taken. Authorized method of take: hand and hand tools.
3. You may take or possess marine invertebrates **not to exceed sport fishing bag limits; sport fishing seasons and size limits shall apply.** Authorized method of take: hand, hook and line, seine (except beach seine), dip nets, spear, dredge, hand tools, and trap (when marked with your SCIN). You shall mark buoys with your SCIN, to be maintained in a readable condition.

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**WILDLIFE AUTHORIZATIONS**

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4. You may take terrestrial invertebrates and vernal pool invertebrates. Threatened or Endangered Species inadvertently collected shall be immediately released and reported to the Department of Fish and Wildlife, Wildlife Branch, Scientific Collecting Permit Biologist, 1812 9th St., Sacramento, CA 95811 on copies of California Native Species Survey (CNSFS) forms (**see Mandatory Condition G**) within three business days. Authorized methods of take: hand and net.
- 5a. You may capture and release an unlimited number of amphibians and reptiles, only for the purposes of identification and documentation. All animals captured shall be released alive and unharmed at the capture site and may not otherwise be removed from the wild unless authorized by the Department. Specimens of Threatened or Endangered Species inadvertently collected shall be immediately released and reported to the CNDBB (**see Mandatory Condition G**). Authorized methods of trapping are hand, dip net, minnow seine, lizard noose, snake tongs and snake hook.
- 5b. You may purposefully capture (**see Mandatory Condition L**) and release an unlimited number of small mammals, but only for the purposes of identification and documentation. You shall immediately release all captured individuals alive, unharmed, and unmarked at the site of capture and shall not otherwise handle these animals without additional authorization from the Department.
6. You may salvage dead amphibians, reptiles, and mammals. You shall leave specimens that are unsuitable for donation at the site or shall completely destroy them through burial or incineration. You shall obtain additional permission to salvage on private or public property from the landowner or custodian of that property. You shall tag each salvaged specimen with the following information: (a) date of salvage and location of the specimen; (b) name of the person who salvaged the specimen; and (c) the permit number under which the specimen was salvaged. You shall deposit all salvaged specimens in a public scientific or educational institution within one month of acquisition.
7. You may take birds in accordance with your federal permit(s). The Department may require additional or modified conditions that will be noted on your SCP. You shall immediately release any inadvertently-taken Threatened or Endangered Species and report their capture to the CNDBB (**see Mandatory Condition G**).
8. You may take species that are only federally-listed in accordance with your existing federal permit(s). The Department may require additional or modified conditions that will be noted on your SCP. If you are using traps to take mammals, you must follow Mandatory Condition L. You shall immediately release any Threatened or Endangered Species not authorized in your federal permit and report their capture to the CNDBB (**see Mandatory Condition G**).
9. You may take species that are both federally-listed AND CESA-listed, CESA-Candidate, and/or Fully Protected in accordance with your existing federal permit(s) and your State MOU(s) or permits. You shall immediately release any Threatened or Endangered Species not authorized in your federal permit and State MOU or permit, and report their capture to the CNDBB (**see Mandatory Condition G**).





## NOTIFICATION OF INTENT TO COLLECT FOR SCIENTIFIC PURPOSES

**Regional Office: Please forward this notification to the appropriate biological and law enforcement staff covering the locations below.**

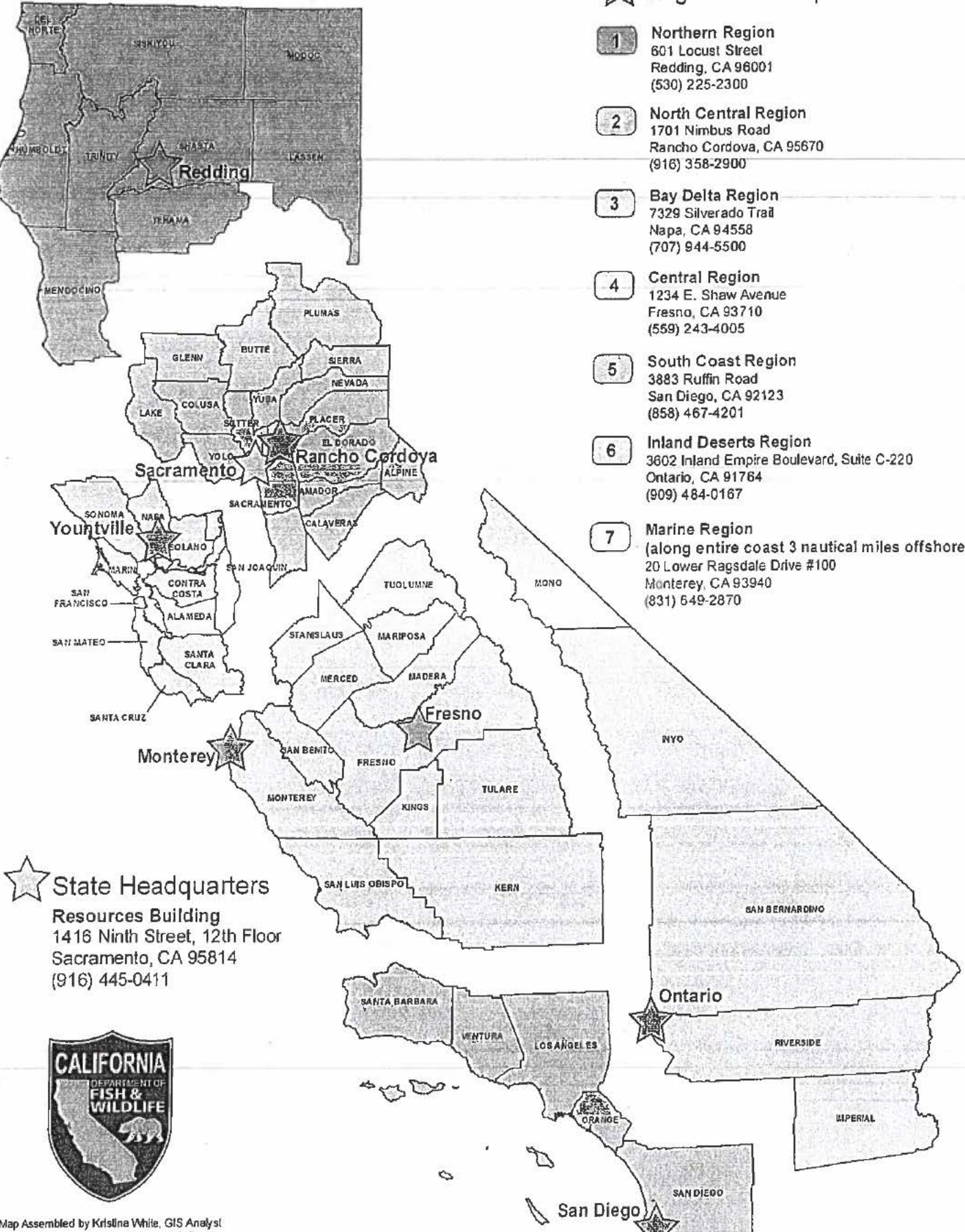
Instructions: **It is mandatory to complete all items.** Type or print clearly in ink. You must notify the Department of Fish and Wildlife regional office by noon one (1) business day prior to scientific collecting activity authorized, and no more than two weeks in advance of your activity. Collectors: Use the map on the back of this form to determine the regional office whose boundaries surround the area where you will be collecting and the appropriate fax number. If you are unable to fax this form, you must telephone the office directly during business hours and provide this information.

# OF PAGES (including this form)		TODAY'S DATE		PERMANENT ID NUMBER SC-	
TO: Department of Fish and Wildlife regional office Select a Department of Fish and Wildlife Office			FAX NUMBER OR EMAIL Select a CDFW Fax Number		
FROM PERMITTEE'S FIRST NAME		LAST NAME		DAY TELEPHONE	
INSTITUTION/ENTITY'S NAME				E-MAIL ADDRESS	
1 <sup>st</sup> DATE COLLECTING	2 <sup>nd</sup> DATE COLLECTING	3 <sup>rd</sup> DATE COLLECTING	4 <sup>th</sup> DATE COLLECTING	5 <sup>th</sup> DATE COLLECTING	
TIME COLLECTING	TIME COLLECTING	TIME COLLECTING	TIME COLLECTING	TIME COLLECTING	
SPECIFIC LOCATION	SPECIFIC LOCATION	SPECIFIC LOCATION	SPECIFIC LOCATION	SPECIFIC LOCATION	
COUNTY	COUNTY	COUNTY	COUNTY	COUNTY	
NUMBER IN PARTY	NUMBER IN PARTY	NUMBER IN PARTY	NUMBER IN PARTY	NUMBER IN PARTY	
YEAR/MAKE OF VEHICLE	YEAR/MAKE OF VEHICLE	YEAR/MAKE OF VEHICLE	YEAR/MAKE OF VEHICLE	YEAR/MAKE OF VEHICLE	
COLOR/LICENSE PLATE #	COLOR/LICENSE PLATE #	COLOR/LICENSE PLATE #	COLOR/LICENSE PLATE #	COLOR/LICENSE PLATE #	
DESCRIPTION OF BOAT	DESCRIPTION OF BOAT	DESCRIPTION OF BOAT	DESCRIPTION OF BOAT	DESCRIPTION OF BOAT	
BOAT CF #	BOAT CF #	BOAT CF #	BOAT CF #	BOAT CF #	
GEAR TYPE TO BE USED	GEAR TYPE TO BE USED	GEAR TYPE TO BE USED	GEAR TYPE TO BE USED	GEAR TYPE TO BE USED	
SPECIES TO BE COLLECTED	SPECIES TO BE COLLECTED	SPECIES TO BE COLLECTED	SPECIES TO BE COLLECTED	SPECIES TO BE COLLECTED	

# California Department of Fish and Wildlife Regions

## ★ Regional Headquarters

- 1 Northern Region  
601 Locust Street  
Redding, CA 96001  
(530) 225-2300
- 2 North Central Region  
1701 Nimbus Road  
Rancho Cordova, CA 95670  
(916) 358-2900
- 3 Bay Delta Region  
7329 Silverado Trail  
Napa, CA 94558  
(707) 944-5500
- 4 Central Region  
1234 E. Shaw Avenue  
Fresno, CA 93710  
(559) 243-4005
- 5 South Coast Region  
3883 Ruffin Road  
San Diego, CA 92123  
(858) 467-4201
- 6 Inland Deserts Region  
3602 Inland Empire Boulevard, Suite C-220  
Ontario, CA 91764  
(909) 484-0167
- 7 Marine Region  
(along entire coast 3 nautical miles offshore)  
20 Lower Ragsdale Drive #100  
Monterey, CA 93940  
(831) 649-2870



★ State Headquarters  
Resources Building  
1416 Ninth Street, 12th Floor  
Sacramento, CA 95814  
(916) 445-0411

