

**Scientific Collecting Permit Portal**

Hirano,

Chad@Wildlife

State of California – Department of Fish and Wildlife

**SCIENTIFIC COLLECTING PERMIT, SPECIFIC USE – APPLICATION**

DFW 1379S (NEW 09/01/17)

**Entity SCP ID: S-212980001-23205-001 (Submitted - Routed for Review)**

**Applicant Action Items**

**Applicant Action Items \***

There are no items to show in this view.

**Add Action Item**

**Return for Edits**

Yes

No

Select "Yes" will trigger sending the applicant a notification regarding the Applicant Action Item(s). The "Request Status" will be updated to "Draft - Returned for Edits" and will be removed from your pending review list until the applicant completes the action item(s) and resubmits the application.

**Reviewer Action Items**

**Reviewer Action Items \***

There are no items to show in this view.

**+ Add Action Item**

**Approver Action  
Items**

**Application Review Due Date**

12/12/2023

**Application Review Decision**

Pending

Selecting and saving the final review decision will trigger sending the applicant notification regarding the final decision. Only update this field if all the Applicant and Reviewer Action Items have been completed and you are the final review decision maker.

**Decision Justification**

Provide justification for the final review decision. The justification should explain why and how the decision was made. (DO NOT add additional conditions in the justification, use Section 8 to condition the approved permit.) This justification will be included in the notification sent to the applicant upon conclusion of the final review decision. This justification will not show up on the printed permit.

**Approved Permit**

**Approved Permit Documents \***

There are no items to show in this view.

 **Upload Document**

**Create Permit Documents \***

**Create Document**

**Section 1. Permit Request**

**Section 1. Permit Request**

**Specific Use Permit ID**

S-212980001-23205-001

**Reference Title**

Catalina Island Deer Removal

**Permit Type \***

**Permit Requestor**

<b>Specific Use (S)</b>	<b>wildlife@catalinaconservancy.org</b>
<b>Request Status</b> Submitted - Routed for Review	<b>Date Submitted</b> 8/9/2023

**Section 2. Permitholder Information**

<b>Section 2. Permitholder Information</b>		
<b>Permitholder Type</b> Entity	<b>Entity Executive Signatory</b> wildlife@catalinaconservancy.org	
<b>Permitholder Name</b> EID-212980001: Catalina Island Conservancy	<b>Executive Signatory Email Address</b> wildlife@catalinaconservancy.org	
<b>Permitholder Address</b> 125 Clarissa Ave	<b>Permitholder P.O. Box</b> 2739	<b>Permitholder Country</b>
<b>Permitholder City</b> Avalon	<b>Permitholder State</b> California	<b>Permitholder Zip Code</b> 90704
<b>Permitholder Preferred Phone Number</b> 310-510-2595	<b>Permitholder Alternate Phone Number</b>	
<b>Permitholder Affiliation</b>		

**Section 3a. Required Qualifications**

<b>Section 3a. Required Qualifications</b>
<i>Profile attachments are required for all persons requested in the application to independently conduct permitted activities, conduct a portion of the permitted activities, or be named on the permit as an Authorized Individual (refer to Title 14, subsections 650(b)(2) and 650(h) CCR).</i>

**Anyone associated with this application MUST complete and maintain a Profile in this system.**

**\* Select "Yes" below to confirm all persons requesting to be named on this permit have attached the required documents to their individual profile.**

**I confirm all Individuals named on this permit have attached the required documents.**

Yes

**Section 3b. Principal Investigator (PI)**

**Section 3b. Principal Investigator (PI)**

*The Principal Investigator (PI) is responsible for providing adequate supervision and training of all Authorized Individuals named or covered on the permit (refer to Title 14, subsection 650(b)(19) CCR).*

**Entity Permit Principal Investigator**

Edit	Principal Investigator	PI Status	Approval Status	Conditions
	SC-232160005: Anthony J DeNicola	Active	Pending	

**Section 3c. List of Authorized Individuals**

**Section 3c. List of Authorized Individuals**

*Specific Use: Up to eight (8) Authorized Individuals, aside from the PI, may be requested with the initial permit fees (refer to Title 14, subsection 650(j), CCR). Check the box below if you are requesting Authorized Individuals to be named on your permit.*

*If additional Authorized Individuals above eight (8) are required to complete the work on a Specific Use Permit, then a Specific Amendment fee will be assessed as specified in Title 14, subsections 650(l) and 703(c), CCR, in addition to the permit fees. Provide justification below under "Additional Authorized Individuals Justification" of why the proposed activities would need more than eight (8) Authorized Individuals.*

*Ensure the profile for each proposed Authorized Individual has the required qualifications (refer to Section 3a above).*

*If no Authorized Individuals are to be named, leave the box unchecked and skip to Section 3d of this application.*

**NOTE:** Student Permitholders are not authorized to have Authorized Individuals named on their permits.

**Are you requesting Authorized Individuals be named on this permit?**

Yes

**Specific Use Authorized Individuals**

Edit	Authorized Individual	AI Status	Role	Approval Status	Conditions
	SC-232160001: Ryan A Rodts	Active	This role will include carrying out the capture and euthanasia activities including setting up bait and drop nets, chemical immobilization/anesthesia, deploying ear tags and GPS/Telemetry collars, as well as humanely euthanize via gunshot.	Pending	No quals.
	SC-232160008: Wesley J Ocheltree	Active	This role will include carrying out the capture and euthanasia activities including setting up bait and drop nets, chemical immobilization/anesthesia, deploying ear tags and GPS/Telemetry collars, as well as humanely euthanize via gunshot.	Pending	No quals.
	SC-232150010: Jason J Zito	Active	This role will include carrying out the capture and euthanasia activities including setting up bait and drop nets, chemical immobilization/anesthesia, deploying ear tags and GPS/Telemetry collars, as well as humanely euthanize via gunshot.	Pending	No quals.
	SC-232150009: Justin D Kinley	Active	This role will include carrying out the capture and euthanasia activities including setting up bait and drop nets, chemical immobilization/anesthesia, deploying ear tags and GPS/Telemetry collars, as well as humanely euthanize via gunshot.	Pending	No quals.
	SC-232150008: K C Hill	Active	This role will include carrying out the capture and euthanasia activities including setting up bait and drop nets, chemical immobilization/anesthesia, deploying ear tags and GPS/Telemetry collars, as well as humanely euthanize via gunshot. This role also includes veterinary activities including surgical sterilizations.	Pending	No quals.
	SC-232160006: Skyler H Collins	Active	This role will include carrying out the capture and euthanasia activities including setting up bait and drop nets, chemical immobilization/anesthesia, deploying ear tags and GPS/Telemetry collars, as well as humanely euthanize via gunshot.	Pending	No quals.

	SC-232170001: Nathan Kotschwar	Active	This role will include carrying out the capture and euthanasia activities including setting up bait and drop nets, chemical immobilization/anesthesia, deploying ear tags and GPS/Telemetry collars, as well as humanely euthanize via gunshot. This role also includes veterinary activities including surgical sterilizations.	Pending	No quals.
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**Additional Authorized Individuals Justification**

**Additional Authorized Individuals Approved**

Yes

No

Select "Yes" if more than eight (8) Authorized Individuals are approved. An additional Amendment fee will be added to the Permit Fees.

**Section 3d. Related Permits**

**Section 3d. Related Permits**

*If there are any collaborators (Permitholders, and/or Principal Investigators or Authorized Individuals not listed above in Section 3c) with permits related to the work planned within this permit, provide their names and Permit IDs below by clicking "Add Related Permit."*

**Related Permits**

There are no items to show in this view.

**Section 4a. Purpose of Permit**

**Section 4a. Purpose of Permit**

*Add the applicable purpose(s) below for this permit by highlighting the purpose then clicking "Add." If none of the choices clearly fit into the scope of your permit, select "Other" then specify in the "Other" field the purpose of the permit. (Refer to Title 14, subsection 650(b) CCR)*

*Specific Use: For Section 4, provide all details to answer each question in the following fields. You may provide an attached study proposal or additional information in Section 6, but all information entered into each field in subsections 4a-4f must contain sufficient detail to be able to stand-alone for the evaluation of the application.*

**NOTE:** *The Inland Fisheries and Marine programs do not authorize General Use permits for the purpose of propagation*

### **Permit Purpose**

Science - Other

### **Other Science Purpose**

Removal for restoration

## **Section 4b. Permit Information**

### **Section 4b. Permit Information**

***Upload the "Permit Information" document in Section 6. The Permit Information document must contain the following information with these specific headings:***

#### **Section 4b(1). Permit Scope, Goals, and Objectives**

*Explain in detail the fundamental scope of the proposed study or planned undertaking for the permit. This includes relating the purpose(s) of your proposed study or planned undertaking to any research questions and/or hypotheses, goal(s) and objective(s) designed to carry out all requested activity(ies). A planned undertaking may consist of multiple studies and/or activities sharing a fundamental scope with unifying goals, and depending on the taxonomic groups, conservation status of the species, invasiveness of methods, procedures and locations proposed, may be grouped under a single permit (e.g., presence/absence or inventory surveys for terrestrial wildlife, possibly at one or more locations). Refer to Title 14, subsection 650(i)(2).*

#### **Section 4b(2). Permit Need or Benefit**

*Justify the need and/or benefit of the proposed take of wildlife and activities for science, education, and/or propagation pursuant to Title 14, subsection 650(c), as follows:*

- *Scientific purpose: include the significance of the research, questions or hypotheses seeking to be addressed, and/or how your research would directly benefit the species or fulfil an important research, management, or other need. Pursuant to subsection 650(b)(23), research includes, but is not limited to, surveys or inventories to assess the potential for, or to monitor actual project impacts on wildlife resources (e.g., presence/absence surveys, or monitoring).*
- *Educational purpose: include the significance of the education or educational program, training, and/or benefit of instruction about the state's natural resources.*
- *Propagation purpose: include the significance of propagation or sustainability benefit, in situ (or maintain in wild) or ex situ (captive outside the wild) breeding or rearing, possession of hatchery raised fish, ecosystem restoration benefits or population augmentation, and/or efforts to*

*promote maintenance of biologically sustainable populations.*

**Section 4b(3). Study or Planned Undertaking Timeframe**

*Indicate the timeframe for the entire study or period of planned undertaking, even if it extends beyond the duration of this permit (three years for Entity and Individual Permitholders; one year for Student Permitholders)- including all activities, and field and lab work.*

**Permit Information Document Attached?**

Yes

**Section 4c. Background and Past Findings**

**Section 4c. Background and Past Findings**

***If applicable, upload the "Background and Past Findings" document in Section 6. The Background and Past Findings document must answer the following information:***

- 1. Identify pertinent background information, including survey protocols and a literature cited section, which supports the proposed activity(ies) (e.g., presence/absence surveys), or provide copies of any reports or publications from previous or similar research activities conducted on the requested wildlife. Explain how the research will address questions not answered by earlier research.*
- 2. Discuss how any past findings have contributed to the body of knowledge on the subject and how they relate to your proposed goals and objectives.*
- 3. Explain how your proposed activity(ies) relate to a larger series of projects or research plans. Be sure to explain any Related Permits identified in Section 3c of this application.*
- 4. If there is an existing conservation strategy or management plan that relates to your proposed activity(ies) (e.g., USFWS recovery plans, California Species of Special Concern manuscripts, Department Fishery Management Plan), identify conservation actions, recovery tasks, research needs and/or monitoring recommendations. Be sure to explain any permits or environmental documents identified in Section 5 of this application.*

**Background and Past Findings Document Attached?**

Yes

**Section 4d. Executive Summary**

**Section 4d. Executive Summary**

*Provide a brief title for the study or planned undertaking that accurately represents the full scope of the proposed activity(ies) for the permit duration period. The title should identify the purpose, targeted wildlife taxonomic group(s) or species, and general location(s).*

**Title**

Catalina Island Mule Deer Removal

*Provide a summary of the proposed activity(ies) that includes the main goals and objectives or research question(s), species or taxonomic group(s), take and analysis methods, and general locations. Additional information, e.g. past findings, benefit or need, or relevant environmental documents or plans may be provided, but is not required.*

**Abstract**

In an island system, the ecological consequences of an ungulate species that did not co-evolve with the native vegetation can be significant. Deer species cause ecological damage by preferentially browsing on rare and endemic plants that did not evolve biological defenses to deer, leading to their extirpation from the natural landscape. The loss of plant biodiversity has cascading effects on native and endemic wildlife species through the loss of diverse habitats for refuge, breeding, and foraging. Additionally, the decrease in vegetation cover contributes to soil loss and reduced rainwater retention, further destabilizing the landscape. The ecosystem of Catalina Island has been degraded by a history of introduced ungulates reducing vegetation cover and spreading invasive plants which outcompete native plant communities resulting in habitat type conversion. The purpose of this activity is complete removal of the most detrimental ungulate on Catalina Island, mule deer, to make way for long-term restoration and recovery of the island ecosystem. Post-removal the Conservancy will initiate an island-wide restoration project to increase rare plants and diversify habitats across the island. This will coincide with long-term monitoring of vegetation, wildlife populations, and ecosystem processes such as erosion and water retention. The overarching goals of this project is to increase in the island's resiliency to climate change and promote long-term ecological sustainability.

*Issued SCPs are public records, pursuant to Title 14, subsection 650(k), CCR, and through the Public Records Act. However, the Department requests Permitholders make their preferred contact information, and Executive Summary (Study Title and Abstract) available to interested parties to facilitate research communication and collaboration.*

*Indicate your preference for the Department to display your preferred contact information and Executive Summary on the Department's website below.*

**NOTE:** Release is mandatory for applications requiring public notice: request of mountain lion, or pursuit of bobcat (*Lynx rufus*) or bear (*Ursus americanus*) with dogs, pursuant to Sections 4810 and 3960.4 of the Fish and Game Code.

**Public Information Release Preference**

No

## Section 4e. Taxonomic Groups

### Section 4e. Taxonomic Groups

Select the taxonomic group(s) that will be targeted during the course of the proposed study, activity(ies), or planned undertaking (subsection 4f(1)(a), and those that could be possible non-targeted (incidental) by-catch (subsection 4f(1)(b) below). The selected group(s) will determine which Department review program(s) the application will be routed to for review and approval.

**\*Terrestrial Invertebrates:** Refer to Title 14, subsections 650(i)(2) and 650(u)(5), CCR. Specific Use permits are required for intentional take and/or possession of terrestrial invertebrates covered on the California Terrestrial and Vernal Pool Invertebrates of Conservation Priority list (dated June 12, 2017 or any later amendments), or other invertebrates considered to be Prohibited Wildlife on the Terrestrial Wildlife General Use permit application (form DFW 1379GW)

#### Taxonomic Group

Wildlife - Mammals

#### **Activity and Disposition**

Select the take of wildlife activity(ies) and disposition(s) proposed. The selected items will determine which sections are required in Section 4f.

#### Activity and Disposition

Capture; Procedure; Release; Sacrifice

### Review of Species Information

Any person named or covered in this permit, should review the following prior to conducting planned activities:

- ♦ The Department's California Natural Diversity Database Quickview, or other online tool
- ♦ The California Endangered Species Act (CESA) Candidate, Endangered and Threatened species list
- ♦ The Department's Special Animals List for Fully Protected species and California Species of Special Concern
- ♦ Any other source of information for sensitive wildlife species

If certain sensitive species are encountered in the area of planned activities, or if methods and locations authorized by this permit result in take of CESA-listed or Fully Protected species, contact the appropriate review program about whether a Memorandum of Understanding (MOU), pursuant to Fish and Game Code Section 2081(a), and/or Title 14, Section 670.7, CCR is required.

**\* Select "Yes" below to confirm all persons named on this permit have reviewed and understand this information.**

**I confirm all Individuals named on this permit have reviewed the items listed above.**

Yes

**Section 4f(1)(a). Targeted Wildlife**

**Section 4f(1)(a). Targeted Wildlife**

*For each Taxonomic Group listed, add the proposed targeted species, or if requesting at a higher taxonomic level than species enter the proposed lowest level(s) of taxonomic group(s).*

**Targeted Terrestrial Wildlife**

Edit	Targeted Wildlife	Life Stage	Activity / Disposition	Method	Procedure	County	Geographic Location	Conditions	Approval Status
	Mule deer (Odocoileus hemionus) PW	Adult; Juvenile	Capture; Procedure; Release; Sacrifice	Aircraft (e.g., Helicopter/Drones); Attractants (e.g., Baits, Scents, Pheromones); Firearm (e.g., Centerfire Rifle/Shotgun; Gun, Air (e.g., Rifle, Pistol); Net, Drop; Spot-Lighting/Night-Lighting; Trap, Camera	Anesthetize/Chemical Immobilization; Humanely Euthanize; Medical/Surgical Procedure; Sample, Blood; Tag, Ear; Tag, Neck Collar	Los Angeles	Santa Catalina Island - Los Angeles		Pending

**Section 4f(1)(b). Non-Targeted Wildlife**

**Section 4f(1)(b). Non-Targeted Wildlife (Incidental By-catch)**

*For each Taxonomic Group selected, add the possible non-targeted (incidental by-catch) species; or if the species is unknown, enter the proposed lowest level(s) of taxonomic group(s).*

**Non-Targeted Terrestrial Wildlife**

There are no items to show in this view.

**Section 4f(1)(c). Measures Minimizing Harm of Wildlife**

**Section 4f(1)(c). Measures Minimizing Harm of Wildlife**

*Describe what measures will be employed to minimize incidental harm or death of all captured wildlife, including how you will avoid the incidental capture (by-catch) of non-target wildlife and special status species, and describe how you will minimize risk to wildlife during handling and/or procedures (e.g., personnel are trained in identification and supervision, discriminant capture methods, handling procedures and duration, etc.).*

*\* If additional space is required, describe the measures above in a separate document, and attach the document in Section 6.*

**Measures Minimizing Harm of Wildlife**

The methods will follow the American Veterinary Medical Association’s stringent guidelines for humane handling and euthanasia of animals. No snares or poison would be used for the project, relying on the most humane removal methods possible and every effort would be made to dispatch animals with a single shot. Any deer wounded during shooting would be followed and immediately dispatched.

**Section 4f(3). Method Details**

**Section 4f(3). Take Method Details**

*Provide the details for each proposed method used to capture or otherwise take the requested specific species or taxonomic level(s) above.*

**Method Details**

Edit	Taxonomic Group	Methods	Details	Approval Status	Conditions
	Wildlife	Attractants (e.g., Baits, Scents, Pheromones);	We will initiate the Sentinel deer capture efforts through the placement of bait at authorized properties. When bait	Pending	

		Firearm (e.g., Centerfire Rifle/Shotgun); Gun, Air (e.g., Rifle, Pistol); Net, Drop	consumption indicates significant and predictable deer activity (supported by automatic infrared camera data) we will conduct captures using drop nets or chemical immobilization. The drop nets will be either 60' X 60' or 80' X 80' nets with 6" mesh, and will be controlled by a remote control release mechanisms and trigger. We will aim to capture at minimum 4 adult males, 20 adult females, 5 female fawns (unrelated to the adult females), and 4 yearling males. The remaining captured deer will be euthanized with air rifles.		
	Wildlife	Aircraft (e.g., Helicopter/Drones); Firearm (e.g., Centerfire Rifle/Shotgun); Gun, Air (e.g., Rifle, Pistol)	<p>We will deploy 2 aerial shooting teams for the dual helicopter sweep and the first 2 full-island sweeps (1 – 30 August; ~50-60 flight-hours for each sweep), then transition to a single helicopter for the final two sweeps (1 - 20 September).</p> <p>Transitioning to a single helicopter will minimize pressure on the deer that may result in increased aversive behavior before ultra-low densities are achieved. There will be a fine balance between not putting too much pressure on the deer during the helicopter phase and reducing the deer population before the breeding season when the Sentinel method is most effective. Initially, two helicopters will be used in tandem to ensure no deer escaped any encounter. After deer numbers are substantially reduced during the first island sweep, the two helicopters will fly separately. Aerial shooting will take place in the early morning and late evening when deer are most active. The helicopter will systematically cover the terrain by working through each major catchment and gully, searching for deer. All flight tracks and animal dispatch locations will be recorded. At the beginning of each day, the aerial shooting team would continue from where they left off the previous day with one drainage overlap. This method ensures that all areas will be covered equally. After 4-5 complete sweeps of the island systematically aerial shooting, we will transition to Sentinel tracking using a helicopter and unmanned aerial vehicles. Sentinel deer will be monitored for the following 2 year using the same procedure described above. Following the completion</p>		

of monitoring in Year 3, all remaining Sentinel deer will be dispatched.

**Section 4f(4). Procedure Details**

**Section 4f(4). Procedure Details**

*Provide the details for each proposed procedure requested to be performed on specific species or taxonomic level(s) above.*

**Procedure Details**

Edit	Taxonomic Group	Procedures	Details	Approval Status	Conditions
	Wildlife	Anesthetize/Chemical Immobilization	Deer will be administered 1.5 ml BAM™ (Butorphanol tartrate, Azaperone tartrate, and Medetomidine hydrochloride) combined with 0.5 ml of 200 mg/ml Ketamine with focal injection sites in the large muscle masses of the hindquarter. Once deer are secured masks will be placed over the eyes and ophthalmic ointment will be applied to prevent ocular desiccation. Deer will then be placed in a trailer or other temporary enclosed structure to perform surgical procedures. All immobilizations will be reversed with Atipamezole (50 mg IM) and Naltrexone (25 mg IM).		
	Wildlife	Medical/Surgical Procedure; Tag, Ear; Tag, Neck Collar	Females will be administered tubal ligectomies, to ensure multiple ovulations per breeding season, and males will be vasectomized to ensure that if tracking collars fail there is no risk of missing a reproductively viable animal. We will use a trailer or pop-up tent for female Sentinel surgeries, whereas male vasectomies will be performed at the capture location. After capture, all female deer will be premedicated with flunixin meglumine at a dosage of 1-3 mg/kg IM, and a long-acting antibiotic (ceftiofur - Excede) at 3-6 mg/kg also IM. To provide adequate anesthesia ketamine HCl will be given intravenously at dosages up to 5 mg/kg, as needed. Routine prepubic ventral		

			<p>midline laparotomy will be used to expose the uterine horns and ovaries. We will perform surgical fallopian tubal ligectomies. Fallopian tubes are ligated using a single titanium hemostatic clip near the insertion site of each uterine horn and a 1–2 cm section of each tube is removed with electrocautery. Routine three-layer closure of the abdomen will be performed to complete the procedure. After capture, all male deer will be premedicated with flunixin meglumine at a dosage of 1–3 mg/kg IM, and a long-acting antibiotic (ceftiofur - Excede) at 3–6 mg/kg also IM. To maintain anesthesia supplemental doses of ketamine HCl may be given intravenously at dosages up to 5 mg/kg, as needed. A small midline incision along the posterior of the scrotum will be used to expose the vas deferens. We will perform a simple vasectomy using electrocautery for removal of a ~2.5 cm section of the vas deferens. The incision will be closed with stainless steel staples. Sterilized deer will be released proximate to their capture location and administered the reversal agents Atipamezole (50 mg IM) and Naltrexone (25 mg IM). All sterilized animals will be fitted with livestock ear tags (XL white DuFlex), an ATS VHF radio-collars, and a GPS collar before release.</p>		
	<p>Wildlife</p>	<p>Humanely Euthanize</p>	<p>Deer will be euthanized with a shot placement to the center of brain (or using a captive bolt) under drop nets, or post-chemical immobilization, using .22 rimfire rifles or .35 caliber air rifles and nonlead projectiles to reduce noise and eliminate projectile pass-through risks to operators. Some deer may be remotely euthanized with shot placement to the center of brain or upper cervical spine using .35 caliber air rifles with nonlead projectiles. Air rifles will produce 140-150 ft-lb of energy to ensure a humane death. During aerial shooting we will use California-legal .223 caliber rifles and nonlead ammunition.</p>		

**Section 4f(5)(a). Sacrifice Details**

**Section 4f(5)(a). Sacrifice of Wildlife Details**

If any number of this Targeted Species will be sacrificed, add the quantity to be sacrificed with details below.

Provide the following information per the requested specific species, or taxonomic level(s):

- The quantities to be sacrificed (if unknown, explain under "Sacrifice Details" why it is unknown);
- The specifics of the sacrifice under "Sacrifice Details":
  - Justify the maximum number of individuals that would be killed or removed from the wild;
  - Describe means for which wildlife is sacrificed or humanely euthanized; and
  - Describe your attempts to obtain the wildlife specimens currently held in captivity (e.g., museums, rehabilitation centers, other Permitholders), or produced in captivity. You shall demonstrate conclusively that existing specimens are unavailable, or your research objectives require new/additional specimens.

**Wildlife to be Sacrificed**

Edit	Taxonomic Group	Wildlife to be Sacrificed	Quantity	Approval Status	Conditions
	Wildlife	Mule deer (Odocoileus hemionus) PW	Unknown		

**Sacrifice Details**

The current population of mule deer on Catalina is unknown. The last estimate in 2021 was 1771 deer. The entire population will be humanely euthanized using the methods described above.

**Section 4f(7). Geographic Location Details**

**Section 4f(7). Geographic Location Details**

Select the geographic area(s) from the dropdown list in which you plan to conduct activity(ies) for the duration of the permit.

To help expedite permit review, provide the specific location(s) of study area(s) of the proposed activities, when known. When specific geographic areas are not known at the time of application, indicate if planned activities are statewide, or range-wide for a species (e.g., if planning to conduct surveys on a contract basis in the future, such as presence/absence surveys, county(ies) and/or specific locations may be provided later, and you may be required to submit an application for a Specific Amendment).

For each specific location or study area, provide the following specifics, including justification, and the finest scale location description possible under "Details":

- If your request is for aquatic species, identify the aquatic system(s) and provide: the Hydrologic Unit Code (HUC 8 Watershed #), inland stream/ waterbody name (include begin and end river miles, when known), and/or other inland water (e.g., reservoir, lake names).
- Provide any identifying property designations (i.e., land ownership) and/or geographic coordinates (i.e., latitude, longitude, and datum) that will precisely place the location of the proposed activity site(s).

- ♦ *If you propose to work in a Marine Protected Area (MPA), Marine Managed Area (MMA), Wildlife Area (WA) or Ecological Reserve (ER), provide the name and justify:*
  - *Why collection is required within an MPA, MMA, WA, or ER and provide justification for why it cannot be conducted outside of an MPA;*
  - *Why the proposed methods are appropriate for this activity; and*
  - *Describe the frequency of the proposed activity per sampling area.*
- ♦ *If GPS Point or Centroid of Polygon (e.g., weir, mist-net location or sampling area) enter the specific details, if known, for each specific location requested.*

**Geographic Location Details**

Edit	Taxonomic Group	County	Locations	Details	Approval Status	Conditions
	Wildlife	Los Angeles	Santa Catalina Island - Los Angeles	The methods described above will occur throughout Catalina Island. The procedues (sterilization and capture/collaring) will take place at accessible and strategic locations in Avalon and within the interior.		

**Section 4f(8). Disposition Locations of Specimens and/or Parts**

**Section 4f(8). Disposition Locations**

*For each Proposed Disposition Location add the Name and address of the public, scientific of educational institution(s) to which all wildlife specimens and/or parts thereof will be transferred or deposited below by clicking "Add Disposition Location".*

**Disposition Locations**

There are no items to show in this view.

**Section 5a. Federal Permits**

**Section 5a. Federal Permits**

*If you currently hold/ are named on, have applied for, or will apply for a federal permit pertinent to your requested activities, add the Federal Permit Information below by clicking on "Add Federal Permit Information" Select the type of Federal Permit then enter the Permit Number.*

\* Attach copies of all Federal Permits in Section 6.

### **Federal Permits**

There are no items to show in this view.

### **Section 5b. State Permits**

## **Section 5b. State Permits and Memorandum of Understanding (MOU)**

*If you currently hold, or are named on, or have applied for, or will apply for a state permit pertinent to your requested activities, add the State Permit Information below by clicking on "Add State Permit Information." Select the type of State Permit then enter the Permit Number.*

*For MOUs, provide the name of the species listed in the MOU.*

\* Attach copies of all State Permits and MOUs in Section 6.

### **State Permits**

There are no items to show in this view.

### **Section 5c. Relevant Environmental Documents**

## **Section 5c. Relevant Environmental Documents**

*If you are proposing to conduct activities to meet the requirements of an environmental plan or document, or to meet other environmental compliance required by law, add the relevant environmental document information below.*

*If the type of Environmental Document is not listed, select "Other" then provide the Name of the other permit type and the Permit Number.*

\* Attach copies of all relevant environmental documents in Section 6.

### **Relevant Environmental Documents**

There are no items to show in this view.

### **Section 6. Additional Supporting Documents**

## Section 6. Additional Supporting Documents

Attach additional supporting documents below (e.g., copies of permits or applications of federal, state, or other related permits; study proposals in scientific format; literature cited; relevant protocols or other information requested in this application).

<b>Naming Conventions for Section 6 – Additional Supporting Documents</b>	
<b>Section</b>	<b>Preferred naming convention</b>
4b. Permit Information	LastName_4b_Permit Information.docx
4c. Background and Past Findings	LastName_4b_Background and Past Findings.docx
4f(1)(c). Measures to Minimize Harm of Wildlife	LastName_4f1a_Measures Minimizing Harm.docx
5a. Federal Permits	LastName_5a Type of Permit.docx
5b. State Permits	LastName_5b Type of Permit.docx
5c. Relevant Environmental Document	LastName_5b Type of Environmental Document.docx

### Permit Attachments (Read Only)

<b>Edit</b>	<b>Name</b>	<b>Type</b>	<b>Created</b>	<b>Modified</b>
	<a href="#">Dennhardt_4b_Background and Past Findings.docx</a>		8/7/2023 9:35 AM	8/7/2023 9:41 AM
	<a href="#">Dennhardt_4b_Permit Information.docx</a>		8/7/2023 9:34 AM	8/7/2023 9:40 AM

## Section 7. Application Certification

By certifying this application, the applicant to serve as a Permitholder, or to serve as the Executive Signatory (for an Entity permit), and any requested Principal Investigators agree to the following:

*"I certify that the information submitted in this application is complete and accurate to the best of my knowledge and belief. I understand that if I fail to provide required information, my permit may be denied. I further certify I have read, understand, and agree to abide by the applicable provisions of the Fish and Game Code, and Title 14, Section 650, CCR, and will abide by all the conditions and attachments of the issued permit. I certify that I am not currently under any Department of Fish and Wildlife license or permit revocation or suspension, and there are no other legal or administrative proceedings pending that may disqualify me from obtaining this permit or any amendments. I understand that any false statement herein may make this permit void and subject me to suspension or revocation of this permit pursuant to Title 14, Section 650, CCR, and to the criminal penalties set forth in Fish and Game Code Section 12002. I further understand I am legally responsible for ensuring all persons working under this permit will be adequately supervised, and comply with the requirements noted above and may be prosecuted for noncompliance."*

**Certified**

Yes

**Permit Conditions and Authorizations**

**Permit Conditions and Authorizations**

*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 additional conditions along with the Standard Conditions apply to all Specific Use permits for all Permitholders, Authorized Individuals, and any unnamed Field Assistants conducting activities under a SCP.*

*The Standard Conditions can be viewed by clicking the link below.*

[SCP Standard Conditions](#)

**Additional Specific Use Permit Conditions \***

There are no items to show in this view.

[+ Add New Condition](#)

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