



WASHINGTON STATE SCIENTIFIC COLLECTION PERMIT Washington Department of Fish and Wildlife

Please see **SCIENTIFIC/EDUCATION COLLECTION PERMIT (SCP) INSTRUCTIONS**
(separate document) for completing this application. This form must be used, typed and all

sections must be completed. Incomplete applications will be returned and result in a delay in the issuance of your permit. An Annual Report must be received before a renewal permit can be issued.

Applications and annual reports must be submitted via e-mail to scp@dfw.wa.gov.

Please allow up to **60 days** for processing. Due to the review process, SCP applications cannot be expedited.

Attach a brief Study Plan and Applicant Qualifications. **PLEASE SEE INSTRUCTIONS.**

A **\$117.00 fee** is required with the application (per RCW 77.32.240).

If you have questions, please contact:

WDFW Licensing Division SCP

PO Box 43154

Olympia, WA 98504-3154

Phone: (360) 902-2464, Option 4

E-mail: scp@dfw.wa.gov

Permit Number (WDFW Use Only): **HANSEN 22-028**

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|-------------|---|--|--|---|
| WHO: | 1. APPLICANT INFORMATION | | | |
| | Name: Amy C Hansen | | Agency: USGS | |
| | Phone Number: 509-538-2911 | | Mailing Address: 5501-A Cook-Underwood Rd | |
| | E-mail: achansen@usgs.gov | | City: Cook | State: WA |
| | Zip Code: 98605 | | | |
| | 2. SUB-PERMIT HOLDERS (continued page 7) | | | |
| | NAME/PHONE NUMBER: | | NAME/PHONE NUMBER: | |
| | Tobias (Toby) Kock, 509-538-2915 | | Matt Sholtis 509-538-2905 | |
| | Jamie Sprando, 509-538-2299 | | Ty Hatton 509-538-2990 | |
| | Ryan Tomka, 509-538-2902 | | Ian Jezorek 509-538-2908 | |
| | Brian Ekstrom, 509-538-2965 | | Nick Swyers 509-538-2925 | |
| | Philip Haner, 509-538-2937 | | Lisa Weiland 509-538-2946 | |
| | Gabriel Hansen, 509-538-2961 | | Brad Liedtke 509-538-2974 | |
| | Scott Evans, 509-538-2910 | | Lance Downing 509-538-2299 | |
| | Collin Smith 509-538-2919 | | Anna Elewski 509-538-2299 | |
| | Joe Warren 509-538-2944 | | | |
| | 3. THIS APPLICATION IS: | | | |
| | <input checked="" type="checkbox"/> New | | <input type="checkbox"/> Renewal of last year's Permit # _____ | |
| | <input type="checkbox"/> Amendment to Permit # _____ | | | |
| | 4. PURPOSE OF COLLECTION OR HANDLING (check all that are applicable) | | | |
| | <input type="checkbox"/> Instruction/Education Display | | | |
| | <input checked="" type="checkbox"/> Research/Scientific Investigation (includes ELECTROFISHING) | | | |
| | <input type="checkbox"/> Salvage (deceased animals only) | | | |
| | <input type="checkbox"/> Fish Rescue/Relocation | | | |
| | 5. RESEARCH OBJECTIVES (check all that apply): | | | |
| | <input type="checkbox"/> Aging | <input checked="" type="checkbox"/> Behavior | <input type="checkbox"/> Physiology | <input type="checkbox"/> Artificial Propagation |

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|---|--|---|---------------------------------------|
| <input type="checkbox"/> Census | <input checked="" type="checkbox"/> Presence/Absence | <input checked="" type="checkbox"/> Population Distribution | <input type="checkbox"/> Life History |
| <input type="checkbox"/> Pathology | <input type="checkbox"/> Genetic | <input type="checkbox"/> Stream Typing | |
| <input checked="" type="checkbox"/> Other: bioaccumulation of toxins_____ | | | |

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| WHEN: | 6. PERMIT TIMELINE*: | |
| | Project Start Date: 3/1/2022 | Project End Date: 12/31/2022 |
| | Permit Expiration Date (WDFW Use Only): 31 DECEMBER 2022 | |

*SCPs are valid for a maximum of 12 months.

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| WHAT: | 7. TYPE OF ANIMALS TO BE COLLECTED OR HANDLED: | | | |
| | <input type="checkbox"/> Wildlife* <input checked="" type="checkbox"/> Fish <input checked="" type="checkbox"/> Aquatic Invertebrates – specify: <input type="checkbox"/> Marine <input checked="" type="checkbox"/> Freshwater *Amphibians and terrestrial invertebrates – please check Wildlife | | | |
| | 8. SPECIFIC TYPE(S) (check all that apply): | | | |
| | Wildlife <input type="checkbox"/> Non-Raptor Birds <input type="checkbox"/> Raptors <input type="checkbox"/> Mammals <input type="checkbox"/> Bats <input type="checkbox"/> Terrestrial Invertebrates <input type="checkbox"/> Reptiles/Amphibians | | Fish <input type="checkbox"/> Marine Fishes <input checked="" type="checkbox"/> Freshwater Fishes <input type="checkbox"/> State and/or Federal Threatened or Endangered Species Species Detail: Proof of Federal Authorization (Permit # or BiOP): n/a | |
| | 9. COLLECTION INFORMATION (Continued on page 8): | | | |
| | Species Requested – Both Common & Scientific names are required. | Specific Location & County Stream Section for Fish County must be included | Max # of Lethal Take or Live Permanent Removal | Max # of Non-lethal Take or Salvage |
| | Smallmouth bass (<i>Micropterus dolomieu</i>) | Columbia River (Bonneville Pool), Skamania and Klickitat Counties | 120 | 250 |
| | Signal Crayfish (<i>Pacifastacus leniusculus</i>) | Columbia River (Bonneville Pool), Skamania and Klickitat Counties | 120 | 200 |
| | Sculpin spp. <i>Cottus</i> spp. | Columbia River (Bonneville Pool), Skamania and Klickitat Counties | 20 | 200 |
| | Northern Pikeminnow <i>Ptychocheilus oregonensis</i> | Columbia River (Bonneville Pool), Skamania and Klickitat Counties | 20 | 200 |
| Walleye Sander <i>vitreus</i> | Columbia River (Bonneville Pool), Skamania and Klickitat Counties | 20 | 200 | |
| Yellow perch <i>Perca flavescens</i> | Columbia River (Bonneville Pool), Skamania and Klickitat Counties | 20 | 200 | |

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| HOW: | 10. METHODS OF COLLECTION (Continued on page 9): | |
| | <input type="checkbox"/> Firearms are being used for this collection. | |
| | Lethal Methods: | Species: |
| | Hook and line | Smallmouth bass, northern pikeminnow, walleye, yellow perch |
| | Crayfish traps | Crayfish, sculpin |
| | Non-lethal Methods: | Species: |
| | Hook and line | Smallmouth bass, northern pikeminnow, walleye, yellow perch |
| | Crayfish traps | Crayfish, sculpin |
| | Salvage Methods: | Species: |
| | N/A | N/A |
| Body-gripping traps: | Species: | |
| <input type="checkbox"/> Padded Foot-hold <input type="checkbox"/> Non-strangling type Foot Snare | | |

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|---|---|
| N/A | N/A |
| Electrofishing: <input type="checkbox"/> Backpack <input type="checkbox"/> Boat | Species: |
| N/A | N/A |
| 11. MARKING (check all that apply): | |
| <input type="checkbox"/> Band <input checked="" type="checkbox"/> Mark <input type="checkbox"/> Other (please describe): _____ | |
| <input checked="" type="checkbox"/> Fit with radio/acoustic telemetry transmitters: Max # of Transmitters up to 80, but likely 40 acoustic tags | |
| 12. DISPOSITION OF SPECIMENS (check all that apply): | |
| <input type="checkbox"/> Display Permanent – Dead | <input type="checkbox"/> Display Temporary - Dead |
| <input type="checkbox"/> Display Permanent – Live | <input type="checkbox"/> Display Temporary – Live |
| <input checked="" type="checkbox"/> Tissue sampling | |
| <input type="checkbox"/> Laboratory use | |
| <input type="checkbox"/> Live Housing Research of Laboratory use – Permanent | |
| <input type="checkbox"/> Live Housing Research of Laboratory use – Temporary | |
| <input checked="" type="checkbox"/> Immediate Release at Capture Site | |
| <input type="checkbox"/> Relocated to Wild (additional permits may be required; wildlife may not be captured and relocated without a permit) | |
| <input type="checkbox"/> Carcass disposal at site | |
| <input checked="" type="checkbox"/> Euthanize | |
| <input checked="" type="checkbox"/> Other (please describe): tissue samples will be sent to USACE (Seattle) for processing | |

GENERAL PERMIT CONDITIONS:

1. A Scientific Collection Permit is non-transferable.
2. A copy of this permit must be in the possession of any person exercising the privileges authorized by this permit.
3. The Permit Holder is responsible for ensuring that all Sub-Permit Holders are qualified and experienced to conduct the specified activities, including collection by firearms and comply with all conditions of this permit. Only those Sub-Permit Holder(s) listed on the permit are authorized to engage in permitted activities.
4. Please note that compliance with Scientific Collection Permit requirements and permit conditions does not ensure compliance with federal, local, or other state laws. Collection of state or federal endangered or threatened species, state sensitive species, or state or federal candidate species is prohibited unless specifically authorized in this permit. Collection of game birds or game animals is prohibited unless specifically authorized in this permit. Collection of migratory birds, marine mammals, and any species listed under the federal Endangered Species Act may require a federal permit before collecting. For any collection/research activity of marine mammals and/or federally-protected anadromous and marine fish species, etc., contact NOAA-National Marine Fisheries Service at <http://www.nmfs.noaa.gov/endangered.htm> or 503-230-5400. For any collection/research activity of migratory birds, resident fish species (Bull Trout) and/or federally-protected wildlife, contact U.S. Fish and Wildlife Service at <http://endangered.fws.gov> or 360-753-9440.
5. This permit does not authorize collection from **non-WDFW** protected lands or waters (may include but not exclusive to: parks, reserves, refuges, natural areas, conservation areas, tribal lands, monuments, etc.). This permit does not authorize trespassing on private or restricted public lands. Additional permits issued by other state and local agencies, tribal governments, or landowners/managers may be required.
6. No collection shall occur in WDFW Marine Preserves or Conservation Areas (see <https://wdfw.wa.gov/fishing/management/mpa/marine-preserves> or <https://wdfw.wa.gov/fishing/management/mpa/conservation-areas>), or Wildlife Areas unless permission is obtained from the Area manager. Contact the appropriate WDFW Regional Office for information. Regional office information is listed at <https://wdfw.wa.gov/about/regional-offices>.
7. Specimens acquired under this permit remain the property of the state and will not be offered for sale or sold or used for commercial purposes or human consumption. Exchange or transfer of specimens, unless otherwise specified in this permit, requires prior written approval from the Director of WDFW.

8. Employees of WDFW have the right to inspect the collection activities authorized by this permit.
9. Vessels engaged in collection activities shall display a sign "RESEARCH," readable at 100 feet to unaided vision.
10. Permit Holders using unattended equipment must have attached to that equipment, a tag clearly marked with the permit number and name and current address of the Permit Holder. The address used may be that of the organization the Permit Holder represents, e.g., university, company, or corporation.
11. Permit holders may only use FDA approved fish anesthesia.
 - a) **MS-222** may not be used at times and in places where fish may be subject to "catch and keep" fisheries within 21 days;
 - b) **Clove oil** may not be used at all;
 - c) **AQUI-S®** may be used as an alternative to MS-222.
 - i. To use AQUI-S® 20E as an immediate release sedative in freshwater fish for field-based activities, permit holder must sign up to participate in USFWS-AADAP INAD 11-741 and must comply with the requirements as set forth in the INAD Study Protocol for AQUI-S® 20E (for more information about aquatic animal drugs, AQUI-S® 20E, or to apply to participate in USFWS-AADAP INAD 11-741 go to <https://www.fws.gov/fisheries/aadap/inads/AQUI-S20E-INAD-11-741.html> or contact the USFWS-AADAP INAD Administrator Bonnie Johnson at bonnie_johnson@fws.gov or 406-994-9905). Carbon dioxide can be used as a fish anesthetic as per FDA rules and requires no withdrawal time;
 - d) Carbon dioxide can be used as a fish anesthetic as per FDA rules and requires no withdrawal time;
 - e) As alternative to chemicals, electroanesthesia can be used as a fish anesthetic and requires no withdrawal time.
12. Unless otherwise specified in this permit, release of specimens is allowed only at the exact capture site immediately after capture. Release of fish and marine and freshwater invertebrates at any other site or time requires a transport, release, or planting permit. Relocating wildlife and releasing wildlife other than at the location of capture requires a special permit. The conditions of this permit may specify that no release of certain specimens is allowed. Contact WDFW Fish Program (360-902-2700) or Wildlife Program (360-902-2515) for further information.
13. Temporary holding of wildlife is permitted for identification only. Individuals must be released at site of capture, unless they exhibit evidence of disease.
14. Wildlife Salvage — Notify the WDFW immediately if any State or Federally listed Threatened or Endangered species are encountered or salvaged and any salvaged State or Federal Threatened or Endangered Species must go to a major research collection such as WSU Conner Museum, University of Puget Sound Slater Museum of natural History, or UW Seattle Burke Museum, or as directed by the WDFW.

Reporting Requirements:

Permit renewal is contingent upon submission of a complete Annual Report. Reports must be submitted to WDFW upon completion of the display, education, or research project or the expiration date of the permit, whichever comes first, and must be received no later than 60 days after the expiration of the permit. All reports submitted to WDFW shall include Permit Holder's name and permit number and all required information on the Annual Report Form.

For **anadromous fish and freshwater collections**, the report shall include the 1) Date of collection; 2) Species name (for invertebrates, to the lowest taxonomic level possible); 3) Numbers of each species encountered and/or retained; 4) Location of each sample site, including county, water body, and latitude/longitude or GPS coordinates; 5) Disposition of specimens. This information is to be recorded at each capture site and includes ALL species encountered (or impacted by the collection activity) even if not retained or meant for the study

For **marine collections**, the report shall include the 1) Date of collection; 2) Species name (to the lowest taxonomic level possible); 3) Numbers of each species encountered and/or retained; 4) Location of each sample site, including county, water body, and latitude/longitude or GPS coordinates; 5) Disposition of specimens. This information is to be recorded at each capture site and includes ALL classified and unclassified species encountered (or impacted by the collection activity) even if not retained or meant for the study.

IN ADDITION for:

- i. **Rock scallops** (*Crassodoma gigantea*) include: specific location, mortality of any rock scallop during collection, exact position and depth of specimens collected, and shell length measured from edge to edge at the widest part of the shell.

ii. **Octopus** (*Enteroctopus dofleini*) include: specific location, individual weight, depth, and sex of octopus taken.

For **wildlife collections**, the annual report shall include all categories on the Annual Report Form including the 1) Date of collection; 2) Species name (common and scientific) with numbers collected, numbers released, and disposition of individuals; 3) Location of collection including GPS coordinates, number of accidental mortalities.

SPECIAL CONDITIONS:

Aquatic Invasive Species (AIS) Conditions:

1. To prevent the spreading of aquatic invasive species, permit holder shall follow the procedures in the attachment, WDFW Protocols For Field Work Version 3 dated February 2016 (or the latest version of this document). For additional information on aquatic invasive species, please visit the WDFW website at <https://wdfw.wa.gov/species-habitats/invasive/prevention>.
2. Permit holder is required to humanely euthanize all collected aquatic invasive species (AIS) classified as "Prohibited aquatic animal species level 1, 2, and 3" under WAC 220-640 except as noted below for transport purposes. Collection of all Prohibited level 1 species¹ must be reported immediately to WDFW with photos of the species and specimens saved until provided to WDFW or directed to dispose. All other prohibited AIS must be euthanized before being removed from the immediate vicinity of the water body where collected and then disposed of in a public landfill system or chemically preserved. Collection and disposal of all other prohibited AIS must be included in a report submitted to WDFW within 30 days using the online reporting form noted below.
3. Permit holder may transport live prohibited AIS outside the immediate vicinity of the water body where collected only under the following conditions:
 - a. Transport to nearest WDFW regional office or headquarters for purpose of identification; AND
 - b. Transported in a secure container to prevent release of either the AIS or any associated water, plant, sediment, animal, or other materials; OR
 - c. Transported as authorized by a separate WDFW AIS Permit secured prior to collection.
4. Contact information:
WDFW Headquarters: 360-902-2700 and request Aquatic Invasive Species Unit Staff
Online reporting form: <https://invasivespecies.wa.gov/report-a-sighting/>
Toll-free: 888-933-9247

¹ Includes: Zebra mussels (*Dreissena polymorpha*), quagga mussels (*Dreissena rostriformis bugensis*), European green crab (*Carcinus maenas*), and all members of the genus *Eriocheir* (including Chinese mitten crabs), all members of the walking catfish family (Clariidae), all members of the snakehead family (Channidae), silver carp (*Hypophthalmichthys molitrix*), largescale silver carp (*Hypophthalmichthys harmandi*), black carp (*Mylopharyngodon piceus*), and bighead carp (*Hypophthalmichthys nobilis*).

SPECIAL CONDITIONS CONTINGENT UPON THE TYPE OF WORK

State Threatened, Endangered, or Sensitive Species -- Federal Threatened or Endangered Species

1. ESA listed fish must not be handled if water temperatures exceed 21°C (69.8°F).
2. Each ESA listed fish that must be handled out-of-water for the purpose of recording biological information must be anesthetized. Anesthetized fish must be allowed to recover (e.g., in a recovery tank) before being released. Fish that are simply counted must remain in water but do not need to be anesthetized.
3. When using methods that capture a mix of species, ESA-listed fish must be processed first.
4. Permit holder shall apply measures that minimize risk of harm to listed and unlisted fish. These measures include but are not limited to: limitations on the duration (hourly, daily, weekly) of trapping, limits on trap holding duration of listed fish prior to release; application of procedures to allow safe holding and careful handling and release of listed fish; and allowance for free passage of listed fish when trapping facilities are not being actively operated.

Northern Pikeminnow

All Northern Pikeminnow (*Ptychocheilus oregonensis*) greater than 200 mm in length that are retained and euthanized or an accidental mortality, must be caudal clipped to avoid being submitted to the Pikeminnow Program for reward.

Northern Pike

Any Northern Pike (*Esox lucius*) that are captured shall be killed and retained. Additionally, permit holder shall contact WDFW Fish Biologist Eric Winther (360.906.6749 (office), 360.601.3607 (cell), or Eric.Winther@dfw.wa.gov) to arrange for disposal.

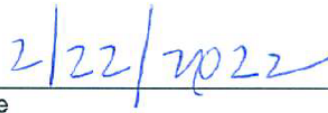
An Annual Report must be submitted before renewal of next year's permit is granted. Under **RCW 77.15.660**, a violation of the terms or conditions of the scientific permit or any WDFW rule applicable to the issuance or use of the permit is a gross misdemeanor if the violation involves big game or big-game parts. It is also a gross misdemeanor under RCW 77.15.660 to purchase or sell big game or big-game parts that were taken or acquired with a scientific permit. Under **RCW 77.15.160**, a violation involving anything other than big game or big-game parts is an infraction.

By signing below, I, PERMITTEE'S NAME agree to abide by the conditions set forth in the Scientific Collections Permit issued by the Washington Department of Fish and Wildlife. I agree to all the conditions outlined in **WAC 220-200-045** and **RCW 77.32.240**. I also certify that if **firearms** are being used for collection under this permit, all persons who will use firearms are legally capable of possessing firearms (per WAC 220-200-045(3)(e)).

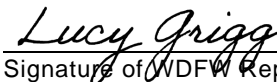
This permit is not valid until signed by the permit holder and the WDFW Representative.



Signature of Permit Holder



Date



Signature of WDFW Representative

22 February 2022

Date

THIS PERMIT MAY BE REVOKED OR MODIFIED AT THE DISCRETION OF THE DIRECTOR OR THE DIRECTOR'S DESIGNEE.