

SCIENTIFIC RESEARCH AND COLLECTING PERMIT

Grants permission in accordance with the attached

general and special conditions

United States Department of the Interior National Park Service Delaware Water Gap

Study#: DEWA-00272 Permit#: DEWA-2022-SCI-0002 Start Date: Jan 01, 2022 Expiration Date: Dec 31, 2023 Coop Agreement#: Optional Park Code:

Name: Ms Michelle Toshack	Phone:4066243320	Email:katie@adventurescientists.org
Name of institution represented: Adventure Scientists		
Additional investigators or key fiel	d assistants:	
Name: Michelle Toshack	Phone: 406-624-3320	Email: michelle@adventurescientists.org
Name: Joshua Theurer	Phone: 406-451-1504	Email: joshua@adventurescientists.org
Name: Cedar Mathers-Winn	Phone: 4069200847	Email: cedar@adventurescientists.og
Study Title: Wild and Scenic Rivers Middle D	elaware	
 (NWSRS). Adventure Scientists is p the Clean Water Act (CWA), which Scientists has designed the project t agencies' decision-making capacity waters improve their management a identified as having a good status bu develop during the life of the project NWSRS. Several states require repeat monito to comply with the CWA. Therefore 	prepared to provide advisory data to include TMDLs (total maximum co o meet the priorities and standards). In addition, state water quality age bility, which includes updating asse at with no data to verify those cond t should allow us to better coordinat ring and minimum data points to de e, Adventure Scientists is planning ata for river segments with significat	of rivers across the National Wild and Scenic River system o support federal and state agencies in their efforts to implemen laily loads) as well as 303(b) and 303(d) listings. Adventure of a variety of stakeholders and to ensure data can improve encies have expressed that regular monitoring of all surface essments of impaired waters and collecting data on waters itions. The multi-level and inter-agency relationships that ate across groups in response to water quality issues in the etermine the status of surface waters, including rivers, in order for four years of data collection (until fall/winter 2022) to ant data gaps/needs (e.g., unassessed and unknown waters). At
Subject/Discipline:		
Water Quality Watershed Management / Assessme	ent	
Locations authorized:	n designated Wild and Scenic portion	ons of the Middle Delaware River. Exact points for data n collecting data.
Transportation method to research Sampling locations will be accessed		kayak/raft when necessary.
Collection of the following specime	ns or materials, quantities, and a	ny limitations on collecting:
Name of repository for specimens of	or sample materials if applicable:	
The following specific conditions of The conditions that follow are speci	r restrictions, and any attached confict to this national park unit. These esearch and Collecting Permit, whi	mit (available at the RPRS HELP page) apply to this permit onditions, also apply to this permit: • conditions apply in addition to the National Park Service ch are listed separately. By signing this Research Permit, the ic Conditions.
1. In advance of fieldwork, a mail t	he park Emergency Communication	ns Center and the park Research Coordinator of specific

1. In advance of fieldwork, e-mail the park Emergency Communications Center and the park Research Coordinator of specific locations and dates, along with vehicle description and license plate number:

DEWA_Communications_Center@nps.gov larry_hilaire@nps.gov

Emergencies: For any emergencies requiring law enforcement and/or medical or fire, contact the park 24-hr Emergency Communications Center at 570-426-2457. If 911 is used, indicate you are within Delaware Water Gap National Recreation Area.

2. Vehicle use is restricted to public roadways and parking areas. Road closures may affect site access. Operation of off-road vehicles, including ATVs, is prohibited.

3. Make two copies of this permit. Carry one copy in-hand and place the second copy in plain view on the vehicle dashboard while working in the park.

4. Label all markers and equipment to be left overnight in the field, including temporary flagging. Labels must clearly show the Research Permit Number.

5. On completion of this study, provide copies study materials, including field notes, raw data, and photographs, for accession to the NPS museum system. Submit a digital report of study results. Provide a copy of each publication which may result from this study and note the cooperation of the National Park Service.

6. All National Park Service General Conditions (18 items) for scientific research and collecting shall apply. Refer to the attachment to this permit.

7. Protected information must not be disclosed through any means including websites, maps, scientific articles, presentations, and speeches. Protected information of the National Park Service concerns the nature and specific location of endangered, threatened, rare, commercially valuable, mineral, paleontological or cultural patrimony resources, such as threatened or endangered species, rare features, archeological sites, museum collections, caves, fossil sites, gemstones, and sacred ceremonial sites. Acquisition or development of any such information does not constitute a release to the public under the Freedom of Information Act (FOIA), and the National Park Service has not waived any FOIA exemption or other legal protection for this information.

8. It is the responsibility of the Investigator to obtain all other state or federal permits which may be required.

9. This permit is valid through the expiration date shown on front page. The principal investigator may apply to renew an expired permit following completion of the Investigators Annual Report.

10. If collected specimens will be retained in a museum collection, contact the park Curator for instructions (Lori_Rohrer@nps.gov).

11. Treatment of animals shall be done in accordance with the guidelines of the Animal Care and Use Committee of your institution.

12. This permit does NOT authorize pesticide application nor any other pest management. All pesticide use requires separate, written authorization from the superintendent. For more information, contact Larry Hilaire at 570/296-6952 x27 or Larry_Hilaire@nps.gov

13. Research personnel agree to follow CDC/agency guidelines in regard to COVID-19 precautions. Personal floatation devices must be worn at all times when conducting research from watercraft.

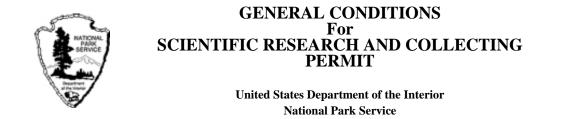
Summary of permitted field methods and activities:

This project empowers Adventure Scientists' volunteer network with the tools, technology, and guidance to collect water quality data across over 13,000 miles of WSRs managed by USFS, BLM, and NPS. Adventure Scientists will leverage its volunteer communities of whitewater rafters and kayakers as well as backpackers, mountain bikers, day-hikers, and trailrunners to collect the necessary data. We will launch the project's first phase as a small-scale nationwide effort, with priority given to the nearly 4000 river miles of unassessed and unknown water quality managed by your agencies. These rivers span 16 of 40 states with WSRs. In the second project phase, Adventure Scientists intends to expand the project scope by prioritizing river segments with significant data gaps as well as those with identified impairments under the CWA. We will also incorporate previously collected data throughout the rivers managed by these three federal agencies.

We will focus on parameters that can be collected via field instruments or observations. Volunteers will deploy Hach probes that monitor dissolved oxygen (DO), pH, temperature, total dissolved solids (TDS), salinity and conductivity. Field equipment will be attended at all times by the volunteer and the volunteer will not be installing or leaving any equipment in the field. While in the field, volunteers will collect both chemical and physical condition data, requiring volunteers to: (1) access pre-selected field sites; (2) mark GPS coordinates and exact time of data collection; (3) deploy a data logger/sensor for the collection of basic parameters (temp, DO, pH, conductivity, TDS, salinity) in situ; and (4) conduct a qualitative habitat assessment and take photos.

Recommended by park staff(name and title):	Reviewed by Collections Manager:
Larry Hilaire, Wildlife Biologist	YesNo X
Approved by park official:	Date Approved:
Title:	
For the Superintendent	
I Agree To All Conditions And Restrictions (Not valid unless signed and dated by th	
Wichille Joshack	01/20/2022
(Principal investigator's signature)	(Date)

THIS PERMIT AND ATTACHED CONDITIONS AND RESTRICTIONS MUST BE CARRIED AT ALL TIMES WHILE CONDUCTING RESEARCH ACTIVITIES IN THE DESIGNATED PARK(S)



1. **Authority** - The permittee is granted privileges covered under this permit subject to the supervision of the superintendent or a designee, and shall comply with all applicable laws and regulations of the National Park System area and other federal and state laws. A National Park Service (NPS) representative may accompany the permittee in the field to ensure compliance with regulations.

2. **Responsibility** - The permittee is responsible for ensuring that all persons working on the project adhere to permit conditions and applicable NPS regulations.

3. **False information** - The permittee is prohibited from giving false information that is used to issue this permit. To do so will be considered a breach of conditions and be grounds for revocation of this permit and other applicable penalties.

4. **Assignment** - This permit may not be transferred or assigned. Additional investigators and field assistants are to be coordinated by the person(s) named in the permit and should carry a copy of the permit while they are working in the park. The principal investigator shall notify the park's Research and Collecting Permit Office when there are desired changes in the approved study protocols or methods, changes in the affiliation or status of the principal investigator, or modification of the name of any project member.

5. **Revocation** - This permit may be terminated for breach of any condition. The permittee may consult with the appropriate NPS Regional Science Advisor to clarify issues resulting in a revoked permit and the potential for reinstatement by the park superintendent or a designee.

6. **Collection of specimens (including materials)** - No specimens (including materials) may be collected unless authorized on the Scientific Research and Collecting permit.

The general conditions for specimen collections are:

- Collection of archeological materials without a valid Federal Archeology Permit is prohibited.
- Collection of federally listed threatened or endangered species without a valid U.S. Fish and Wildlife Service endangered species permit is prohibited.
- Collection methods shall not attract undue attention or cause unapproved damage, depletion, or disturbance to the environment and other park resources, such as historic sites.
- New specimens must be reported to the NPS annually or more frequently if required by the park issuing the permit. Minimum information for annual reporting includes specimen classification, number of specimens collected, location collected, specimen status(e.g., herbarium sheet, preserved in alcohol / formalin, tanned and mounted, dried and boxed, etc.), and current location.
- Collected specimens that are not consumed in analysis or discarded after scientific analysis remain federal property. The NPS reserves the right to designate the repositories of all specimens removed from the park and to approve or restrict reassignment of specimens from one repository to another. Because specimens are Federal property, they shall not be destroyed or discarded without prior NPS authorization.
- Each specimen (or groups of specimens labeled as a group) that is retained permanently must bear NPS labels and must be accessioned and cataloged in the NPS National Catalog.Unless exempted by additional park specific stipulations, the permittee will complete the labels and catalog records and will provide accession information. It is the permittee's responsibility to contact the park for cataloging instructions and specimen labels as well as instructions on repository designation for the specimens.
- Collected specimens may be used for scientific or educational purposes only, and shall be dedicated to public benefit and be accessible to the public in accordance with NPS policies and procedures.
- Any specimens collected under this permit, any components of any specimens (including but not limited to natural organisms, enzymes or other bioactive molecules, genetic materials, or seeds), and research results derived from collected specimens are to be used for

scientific or educational purposes only, and may not be used for commercial or other revenue - generating purposes unless the permittee has entered into a Cooperative Research And Development Agreement(CRADA) or other approved benefit - sharing agreement with the NPS. The sale of collected research specimens or other unauthorized transfers to third parties is prohibited. Furthermore, if the permittee sells or otherwise transfers collected specimens, any components thereof, or any products or research results developed from such specimens or their components without a CRADA or other approved benefit-sharing agreement with NPS, permittee will pay the NPS a royalty rate of twenty percent(20 %) of gross revenue from such sales or other revenues. In addition to such royalty, the NPS may seek other damages to which the NPS may be entitled including but not limited to injunctive relief against the permittee.

7. **Reports** - - The permittee is required to submit an Investigator's Annual Report and copies of final reports, publications, and other materials resulting from the study. Instructions for how and when to submit an annual report will be provided by NPS staff.Park research coordinators will analyze study proposals to determine whether copies of field notes, databases, maps, photos, and / or other materials may also be requested.The permittee is responsible for the content of reports and data provided to the National Park Service

8. **Confidentiality** - The permittee agrees to keep the specific location of sensitive park resources confidential. Sensitive resources include threatened species, endangered species, and rare species, archeological sites, caves, fossil sites, minerals, commercially valuable resources, and sacred ceremonial sites.

9. **Methods of travel** - Travel within the park is restricted to only those methods that are available to the general public unless otherwise specified in additional stipulations associated with this permit.

10. Other permits - The permittee must obtain all other required permit(s) to conduct the specified project.

11. **Insurance** - If liability insurance is required by the NPS for this project, then documentation must be provided that it has been obtained and is current in all respects before this permit is considered valid.

12. **Mechanized equipment** - No use of mechanized equipment in designated, proposed, or potential wilderness areas is allowed unless authorized by the superintendent or a designee in additional specific conditions associated with this permit.

13. **NPS participation** - The permittee should not anticipate assistance from the NPS unless specific arrangements are made and documented in either an additional stipulation attached to this permit or in other separate written agreements.

14. **Permanent markers and field equipment** - The permittee is required to remove all markers or equipment from the field after the completion of the study or prior to the expiration date of this permit. The superintendent or a designee may modify this requirement through additional park specific conditions that may be attached to this permit. Additional conditions regarding the positioning and identification of markers and field equipment may be issued by staff at individual parks.

15. Access to park and restricted areas - Approval for any activity is contingent on the park being open and staffed for required operations. No entry into restricted areas is allowed unless authorized in additional park specific stipulations attached to this permit.

16. **Notification** - The permittee is required to contact the park's Research and Collecting Permit Office (or other offices if indicated in the stipulations associated with this permit) prior to initiating any fieldwork authorized by this permit. Ideally this contact should occur at least one week prior to the initial visit to the park.

17. **Expiration date** - Permits expire on the date listed. Nothing in this permit shall be construed as granting any exclusive research privileges or automatic right to continue, extend, or renew this or any other line of research under new permit(s).

18. **Other stipulations** - This permit includes by reference all stipulations listed in the application materials or in additional attachments to this permit provided by the superintendent or a designee. Breach of any of the terms of this permit will be grounds for revocation of this permit and denial of future permits.