

UGA Wilde Laboratory

Aquatic plant sample collection protocol

IMPORTANT: Prior to collecting and shipping specimens, please contact us to obtain a copy of our APHIS permit that **MUST** be included with your shipment.

Plant sample collection:

- Collect hydrilla sample from at or below surface, squeeze excess water out, and place in a ziplock bag. A 1-quart freezer style bag is plenty for screening purposes. Please be sure to *only* include vegetation.
- Label the bag with site and date info
- Please include with submission:
 - The location of each site (approximate location on reservoir is fine, GPS is great!)
 - Any water quality data that you're equipped to measure in the field (DO, turbidity, ph, temp, etc)

Shipping:

- Place the sealed sample bag(s) in a cooler or waterproof packaging with the APHIS permit, a coldpack, tape the cooler/package shut, place it inside a box and mail* it to:

Dr. Susan Wilde
Warnell School of Forestry and Natural Resources
180 East Green Street
University of Georgia
Athens, GA 30602-2152

- Additional contact info:
Susan Wilde
Work: 706-542-3346
Cell: 706-247-5912
Email: swilde@uga.edu
- *We prefer to use FedEx next-day shipping, but if this is cost prohibitive just send as quickly as possible
- Please call or email to let us know to anticipate your shipment and include the tracking number, if possible.

THANK YOU! We appreciate your help in monitoring the range of the *Aetokthonos hydrillicola* cyanobacteria and other potentially harmful algae!

United States Department of Agriculture
Animal and Plant Health Inspection Service
Plant Protection & Quarantine
4700 River Road
Riverdale, MD 20737

Permit to Move Live Plant Pests, Noxious Weeds, and Soil
Interstate Movement
Regulated by 7 CFR 360

This permit was generated electronically via the ePermits system

PERMITTEE NAME:	Dr. Susan Wilde	PERMIT NUMBER:	P526P-20-04360
ORGANIZATION:	University of Georgia	APPLICATION NUMBER:	P526-200911-004
ADDRESS:	Warnell School of Forestry and Natural R, University of Geor	DATE ISSUED:	11/09/2020
	University of Georgia	EXPIRES:	11/09/2023
	Athens, GA 30602	FACILITY NUMBER:	1921
MAILING ADDRESS:	180 E. Green St.	HAND CARRY:	Yes
	Athens, GA 30677	FACILITY ACCOUNT:	Warnell School of Forestry and Natural Resources
PHONE:	7062475912	RESEARCH CENTER:	
ALT. PHONE:		FACILITY NAME:	
EMAIL:	swilde@uga.edu	FACILITY ADDRESS:	180 East Green Street Athens , Georgia 30602-2152
FAX:		FACILITY GPS:	
		MAIL ADDRESS:	180 East Green Street Warnell School of Forestry and Natural Resources Athens , Georgia 30602-2152
		FACILITY CONTACT:	Susan Wilde
		PHONE:	706-542-3346
		ALT. PHONE:	
		FAX:	
		EMAIL:	swilde@uga.edu

DESTINATION: 180 East Green Street, Athens , GA 30602-2152

RELEASE: No

Regulated Article	Under the conditions specified, this permit authorizes the following:				
	Life Stage(s)	Intended Use	Shipment Origins	Originally Collected	Culture Designation
Hydrilla verticillata (Hydrocharitaceae)	Plant Parts	Research - Lab	Continental U.S.	Originally Collected from Within the Continental U.S.	autoclave and discard
Hygrophila polysperma (Acanthaceae)	Plant Parts	Research - Lab	Continental U.S.	Originally Collected from Within the Continental U.S.	autoclave and discard
Limnophila sessiliflora (Scrophulariaceae)	Plant Parts	Research - Lab	Continental U.S.	Originally Collected from Within the Continental U.S.	autoclave and discard

SPECIAL INSTRUCTIONS TO INSPECTORS

See permit conditions below

Permit Number P526P-20-04360

THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.	DATE
Wenbin Li	11/09/2020

WARNING: Any alteration, forgery or unauthorized use of this Federal Form is subject to civil penalties of up to \$250,000 (7 U.S.C.s 7734(b)) or punishable by a fine of not more than \$10,000, or imprisonment of not more than 5 years, or both (18 U.S.C.s 1001)

This permit authorizes Dr. Susan Wilde with University of Georgia in Athens, Georgia to move the regulated materials originally collected from within the Continental U.S.

APHIS PPQ INSPECTORS at PIS - Low Risk

1. Follow the instructions in the Plant Inspection Station Manual for Low Risk Organisms - Arthropods or Microbials Red and White Labeled Packages (may be opened outside a biosafety cabinet; see procedures for handling on page 3-7-42).
2. For questions or concerns, contact USDA APHIS PPQ in Riverdale, MD, at 301-851-2046, toll free 866-524-5421.

PERMIT GUIDANCE

1. This permit does not authorize movement or release into the environment of genetically engineered organisms produced with the regulated organisms described in this permit. Importation, interstate movement, and environmental release of genetically engineered plant pests require a different permit issued under regulations at 7 CFR part 340. Any unauthorized interstate movement or environmental release, including accidental release, of a regulated GE organism would be a violation of those regulations. Additional guidance and contact information for APHIS Biotechnology Regulatory Services, can be found at: <https://www.aphis.usda.gov/aphis/ourfocus/biotechnology>.
2. If an animal pathogen is identified in your shipment, to ensure appropriate safeguarding, please refer to http://www.aphis.usda.gov/import_export/animals/animal_import/animal_imports_an_products.shtml
3. If a human pathogen is identified, please refer to the CDC Etiologic Agent Import Permit Program at <http://www.cdc.gov/od/eaipp/>
4. This permit DOES NOT fulfill the requirements of other federal or state regulatory authorities. Please contact the appropriate agencies, such as the U.S. Environmental Protection Agency, the U.S. Fish and Wildlife Service, the U.S. Food and Drug Administration, the Centers for Disease Control and Prevention, the APHIS Veterinary Services unit, the APHIS Biotechnology Regulatory Services, or your State's Department of Agriculture to ensure proper permitting.
5. If you are considering renewal of this permit, an application should be submitted at least 90 days prior to the expiration date of this permit to ensure continued coverage. Permits requiring containment facilities may take a longer period of time to process.

PERMIT CONDITIONS

USDA-APHIS issues this permit to Susan Wilde, University of Georgia, Athens, Georgia. This permit authorizes the interstate movement of the listed regulated materials originally collected from within the Continental United States.

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1. This permit is issued by the United States Department of Agriculture's Animal and Plant Health Inspection Service (APHIS). It conveys APHIS regulations and requirements for the regulated materials listed on this permit. It does not reduce or eliminate your legal duty and responsibility to comply with all other applicable Federal and State regulatory requirements.

- The permit number or a copy of the permit must accompany the shipment.
- You must be an individual at least 18 years old, or legal entity such as partnership, corporation, association, or joint venture.
- You are legally responsible for complying with all permit requirements and permit conditions.
- The regulated materials and shipping container(s) are subject to inspection by officials of Custom and Border Protection (CBP) and APHIS. CBP or APHIS officials may require the shipment to be treated, seized, re-exported, or destroyed (in part or whole). You will be responsible for expenses.
- If you violate any applicable laws associated with this permit, you may face substantial civil or criminal penalties. We may cancel all current permits and deny future permit applications.
- Without prior notice and during reasonable hours, authorized Federal and State Regulators must be allowed to inspect the conditions associated with the regulated materials authorized under this permit.

2. The permit holder must:

- maintain a valid PPQ526 permit so long as the regulated materials are in your possession,
- not assign or transfer this permit to other persons without APHIS PPQ authorization,
- maintain an official permanent work assignment, residence, or affiliation at the address on this permit,
- notify the Pest Permit Staff as soon as possible of any change in the permit holder's work assignment, residence, or affiliation,
- notify the Pest Permit Staff of the receipt of unauthorized and/or misdirected shipments of regulated materials,
- adequately mitigate environmental impacts resulting from unauthorized release of regulated materials and notify the Pest Permit staff immediately if one occurs,
- notify the Pest Permit Staff if the facility is damaged/destroyed or if you wish to decommission the facility,
- destroy all regulated materials prior to departure from the organization unless other arrangements are confirmed by the Pest Permit Staff.

Notifications to the Pest Permit Staff must be made via 866-524-5421 or pest.permits@usda.gov within one business day of the event triggering a notification.

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- All persons working with the listed regulated materials must be trained on, and implement the permit conditions, and all APHIS approved SOPs governing the facility listed above. Anyone working with these regulated materials must agree to adhere to and sign/initial these conditions before beginning work. These signed conditions do not need to be submitted to USDA/APHIS but must be readily accessible and made available to Federal and State regulators upon request.

Note: These conditions may be copied and stored electronically for electronic signature and initialing provided that the permit number, authorized regulated materials, and authorization statement all appear on the document with the permit number. Signing these conditions only indicates that the person working under this permit has read them; the permit holder is the sole responsible party under this permit.

- Standard Operating Procedures (SOPs) must be filed with, and approved by, the APHIS PPQ Pest Permit Staff at: email: pest.permits@usda.gov; phone: 866-524-5421; fax: 301-734-8700; address: 4700 River Road, Unit 133, Riverdale, MD 20737. All contact information must be kept current and the SOPs must be dated. If requirements in the permit conditions are more restrictive than the SOPs, permit conditions take precedence. APHIS PPQ must approve any changes to the SOPs before implementation.
- Modifications to the containment facility or any changes that affect the containment of the regulated materials must be approved by APHIS prior to making changes. Please contact the Pest Permit Staff (email: pest.permits@usda.gov; phone: 866-524-5421; address: 4700 River Rd., Unit 133, Riverdale, MD 20737; Fax: 301-734-8700).
- All research activities must occur in laboratories, growth chambers or greenhouses of the facility listed above, that have been found adequate for containment of the organisms received under this permit. Access to laboratories, growth chambers or greenhouses must be restricted to authorized personnel.
- After receiving this permit, you will need to request Red/White labels (PPQ Form 599) at least 5 business days in advance of your shipping date. If you applied for your permit online using the ePermits, you may request the labels using the My Shipments/Labels feature. Otherwise, send your request to: Redandwhitelabelrequest@usda.gov. All email requests must come from the permit holder or designee. If requested by the designee, the permit holder must be copied on all requests. Specify the approved port as listed on the permit and the total number of labels needed. You may request additional labels the same way.

Packages without labels on the exterior may be refused entry.

Review label instructions at: <https://www.aphis.usda.gov/planthealth/shipping-red-white-labels>.

You are responsible for instructing your shipper to carefully follow these instructions.

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You are responsible for each import shipping label issued under this permit.

8. The regulated materials must be visually free of diseases, insects, or other plant pests, sand/or contaminants. Field-collected samples of the regulated plant materials must be “bare-root” or washed free of soil. Parasitic plants must be free of saprophytes. If the shipment is for seeds, pesticides must not be applied to the regulated materials before shipping.
9. All packages for transport must minimally consist of both inner/primary and outer/ secondary packages securely sealed so that both are effective barriers to escape or unauthorized dissemination of the listed regulated materials. The inner/primary package(s) will contain all regulated materials/organisms and must be cushioned and sealed in such a way that it remains sealed during shock, impact, and pressure changes that may occur. The outer/secondary shipping container must be rigid and strong enough to withstand typical shipping conditions (dropping, stacking, impact from other freight, etc.) without opening.
10. Upon receipt, all packages must be opened within a Class II or III biosafety cabinet in the APHIS-approved containment facility associated with the permit, to ensure the shipment contains only permitted organisms and is free of contaminants.
11. All packets/containers/specimen of Federal Noxious Weeds (FNWs) are to be labeled "the Regulated materials - to be used only in accordance with current USDA Noxious Weed permit" or similar language.
12. The regulated materials must be stored and/or maintained, in a locked area with access limited to authorized personnel, within the APHIS approved containment facility identified above.
13. All waste water from aquaria or mesocosms must be completely free of any viable plant parts prior to disposal.
14. Plants from the regulated materials are not allowed to flower and set seed. The plants must be inspected daily for the production of flowers. When found, all flowers must be removed and destroyed immediately.
15. This permit does not authorize propagation of the regulated materials. Any potentially propagative parts of regulated materials must be autoclaved or incinerated.
16. There is to be no further movement or distribution of the listed regulated materials within the United States and its territories unless the recipient holds, or is named as a responsible party on a valid PPQ526 permit for receipt of such regulated materials.
17. Upon completion of research, all regulated materials, including un-used and leftover material, and all packaging and handling materials directly in contact with the regulated material must be devitalized/ treated via one or more of the following methods prior to disposal.

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18. DEVITALIZATION AND WASTE DISPOSAL

Devitalization and Waste Disposal Methods:

- autoclaved (see protocol below),
- disposed of off-site by a facility holding a valid PPQ compliance agreement (contaminated waste must be stored in sealed containers prior to pick up by this company), or
- Incineration.

Treated waste will be double bagged prior to disposal.

Other sterilization methods are only allowed with prior written agreement from the USDA/APHIS PPQ Pest Permit Staff.

If using an autoclave the following protocol must be used:

- Waste must be autoclaved at 121 Celsius (250 Fahrenheit) for a minimum of 30 minutes at 15 psi.
- Autoclave tape or other indicators must be placed on each load prior to treatment. The autoclave tape or other indicator on each container must be checked to verify color change before disposal.
- The autoclave must be calibrated annually according to the manufacturer's instructions and a commercially available biological indicator kit that uses bacterial spores of *Geobacillus stearothermophilus* that are rendered unviable at 121 Celsius (250 Fahrenheit) must be used every three months.

OR: The autoclave must be calibrated annually according to the manufacturer's instructions and a commercially available biological indicator kit that uses bacterial spores of *Geobacillus stearothermophilus* that are rendered unviable at 121 Celsius (250 Fahrenheit) must be used every two weeks.

- A written record of the calibration and the biological indicator tests must be maintained. You must follow the manufacturer's instructions for the *Geobacillus stearothermophilus* and if any growth is observed, you must have the autoclave serviced and retested before it is used again for the regulated articles/organisms listed on this permit.

19. Under the Plant Protection Act, individuals or corporations who fail to comply with these conditions and authorizations, or who forge, counterfeit, or deface permits or shipping labels may receive civil or criminal penalties, and may have all current permits cancelled and future permit applications denied.

END OF PERMIT CONDITIONS

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