

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:	Mr. Ben Willis	PERMIT NUMBER:	P526P-20-00194
ORGANIZATION:	SePRO Corporation	APPLICATION NUMBER:	P526-191121-002
ADDRESS:	16013 Watson Seed Farm Road Whitakers, NC 27891	FACILITY NUMBER:	766
MAILING ADDRESS:	16013 Watson Seed Farm Road Whitakers, NC 27891	HAND CARRY:	No
PHONE:	252-301-7891	DATE ISSUED:	01/13/2020
FAX:		EXPIRES:	01/13/2023
DESTINATION:	SePRO Corporation, 16013 Watson Seed Farm Road, Whitakers, NC 27891		
RELEASE:	No		

Under the conditions specified, this permit authorizes the following:

<u>Regulated Article</u>	<u>Life Stage(s)</u>	<u>Intended Use</u>	<u>Shipment Origins</u>	<u>Originally Collected</u>	<u>Culture Designation</u>
Azolla pinnata	Plant Parts, Propagules, Seeds, Spores, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from USA including territories	
Eichhornia azurea (Ponterderiaceae)	Plant Parts, Propagules, Seeds, Spores, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from USA including territories	
Hydrilla verticillata (Hydrocharitaceae)	Plant Parts, Propagules, Seeds, Spores, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from USA including territories	
Hygrophila polysperma (Acanthaceae)	Plant Parts, Propagules, Seeds, Spores, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from USA including territories	
Ipomoea aquatica	Plant Parts, Propagules, Seeds, Spores, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from USA including territories	
Lagarosiphon major (Hydrocharitaceae)	Plant Parts, Propagules, Seeds, Spores, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from USA including territories	
Limnophila sessiliflora (Scrophulariaceae)	Plant Parts, Propagules, Seeds, Spores, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from USA including territories	

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Wenbin Li

DATE

01/13/2020

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Lygodium microphyllum (Lygodiaceae)	Plant Parts, Propagules, Seeds, Spores, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from USA including territories
Sagittaria sagittifolia	Plant Parts, Propagules, Seeds, Spores, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from USA including territories
Salvinia biloba (Salviniaceae)	Plant Parts, Propagules, Seeds, Spores, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from USA including territories
Salvinia herzogii (Salviniaceae)	Plant Parts, Propagules, Seeds, Spores, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from USA including territories
Salvinia molesta (Salviniaceae)	Plant Parts, Propagules, Seeds, Spores, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from USA including territories
Salvinia spp.	Plant Parts, Propagules, Seeds, Spores, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from USA including territories
Stratiotes aloides (Hydrocharitaceae)	Plant Parts, Propagules, Seeds, Spores, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from USA including territories

SPECIAL INSTRUCTIONS TO INSPECTORS

See permit conditions below

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_and_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.

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Wenbin Li	01/13/2020

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PERMIT CONDITIONS

USDA-APHIS issues this permit to Ben Willis, SePRO Corporation, Whitakers, North Carolina. This permit authorizes the interstate movement of the listed regulated materials/organisms originally collected from USA including territories.

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

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pest.permits@aphis.usda.gov within one business day of the event triggering a notification.

- All persons working with the listed regulated materials must be informed of these permit conditions. 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.

A list of all persons with access to the containment facility must be maintained and available upon request by Federal or State Regulatory Officials.

All persons working with the regulated materials must be trained on, and implement the permit conditions, and all APHIS approved SOPs governing the facility listed above.

- This permit does not authorize hand-carry (baggage, personal belongings, auto etc.). Any materials imported by these methods will be seized and destroyed at the permit holder's cost.
- 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.
- 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.

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

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only permitted organisms and is free of contaminants.

8. 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).
9. 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.
10. All research activities must occur within the above listed facility that has been found adequate for containment of the regulated materials received under this permit. Access to permitted plants must be restricted to authorized personnel.
11. The use of outdoor experimental ponds is authorized for monoecious regulated materials. All other regulated materials are restricted to laboratories, growth chamber, green houses and/or enclosed shadehouses.
12. All water used to grow or process the regulated materials and all sediments associated with the regulated materials must be treated as outlined in the SePRO Corporation's Standard Operating Procedures dated April 07, 2017 on file in Task Notes of this permit application. Changes to this document must be approved by USDA APHIS PPQ PHP Pest Permitting Branch -CSFP.
13. The regulated materials must be maintained or stored in the permit holder's research facilities listed above. All stored regulated materials must be kept in an area with access restricted to authorized personnel.
14. 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.
15. 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.

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- 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 according to the manufacturer's instructions annually 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 according to the manufacturer's instructions every two years 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.
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. 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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North Carolina Department of Agriculture
& Consumer Services
Plant Industry - Plant Protection Section

1060 Mail Service Center
Raleigh, N.C. 26799-1060

**Application and Scientific Permit to Move
Plant Pests or Regulated Articles**

Section A - To be Completed by Applicant

1. Ben Willis, Aquatic Development Scientist,
SePRO Research & Technology Campus
16013 Watson Seed Farm Road, Whitakers, NC 27891
ben.willis@sepro.com

2. Type of Pest to be Moved
 Arthropods Noxious Weeds Other (Specify)
 Pathogens Regulated Articles

3. Telephone Number: (252)301-7891

Fax Number: ()

Scientific name of pests or Regulated article	Pest Classification	Life Stage(s) of Pest	Number of Specimens or Units	Origin	Are Pests Established in N.C.?	Host(s) of the Pest
4. Trapa spp.	A	All	Mesocosm	U.S	No	
5. Nymphiodes cristata	A	All	Mesocosm	U.S.	No	
6. Nymphoides peltata	A	All	Mesocosm	U.S	No	

7. Indicate any host materials which may accompany pests (*indicate by line no.*)

8. Destination

16013 Watson Seed Farm Road, Whitakers, NC 27891

9. Supplier Professors, Applicators, and SePRO Personnel

10. No. of shipments 0-6 times a Month

11. Arrival date Tuesday - Friday

12. Method of Shipment and Packaging Double bagged, overnight, cooler

13. Intended Use (*Outline intended research - use attachments if necessary.*)
To develop new herbicides and new techniques with existing registered herbicides for control of noxious weeds. Herbicide tolerance and resistance testing to steward registered aquatic use herbicides for control of noxious weeds.

14. Methods to be Used to Prevent Plant Pest Escape Non NC established plants will only be grown inside laboratories and greenhouses. Other non - indigenous plants may be grown in controlled experimental ponds. Water used in studies is reused for irrigating noxious weeds.

15. Method of Final Disposition Autoclaved, Bagged, Landfilled

16. Signature of Applicant (I hereby certify that the information in this application and all attachments are complete and accurate to the best of my knowledge and belief.)

Ben Willis

17. Date

11/6/20

Section B - To be Completed by Plant Protection Section

18. Conditions of Approval

None

19. Status

Approve Disapprove

20. Signature and Title of NCDA&CS Official

Joy A. G. Smith
JOY A. G. SMITH PLANT PEST ADMINISTRATOR

21. Date

11-18-2020

22. Permit No.

11-2020-01

23. Permit Expiration Date

2/1/2023

24. Pest Category

Aquatic Weeds

Scientific name of Pests or Regulated article	Pest Classification	Life Stage(s) Of Pest	Number of Specimens Or Units	Origin	Are Pests Established in N.C.?	Host(s) of Plants
<i>Nymphiodes peltata</i>	A	All	Mesocosm	U.S.	Yes	
<i>Salvinia</i> spp.	A	All	Mesocosm	U.S.	No	
<i>Lagrosiphon</i> spp.	A	All	Mesocosm	U.S.	No	
<i>Ludwigia hexapetala</i>	B	All	Mesocosm	U.S.	No	
<i>Myriophyllum spicatum</i>	B	All	Pond and Mesocosm	U.S.	Yes	
<i>Azolla pinnata</i>	A	All	Mesocosm	U.S.	No	
<i>Eichhornia azurea</i>	A	All	Mesocosm	U.S.	No	
<i>Hydrilla verticillata</i>	A	All	Mesocosm and Pond	U.S.	Yes	
<i>Hygrophila polysperma</i>	A	All	Mesocosm	U.S.	No	
<i>Ipomoea aquatica</i>	A	All	Mesocosm	U.S.	No	
<i>Limnophila sessiliflora</i>	A	All	Mesocosm	U.S.	Yes	
<i>Lygodium microphyllum</i>	A	All	Mesocosm	U.S.	No	
<i>Sagittaria sagittifolia</i>	A	All	Mesocosm	U.S.	No	
<i>Stratiotes aloides</i>	Not listed	All	Mesocosm	U.S.	No	
<i>Lythrum</i> spp.	A	All	Mesocosm	U.S.	Yes	