

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

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

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PERMITTEE NAME:	Mr. Ben Willis	PERMIT NUMBER:	P526P-17-01995
ORGANIZATION:	SePRO Corporation	APPLICATION NUMBER:	P526-170105-009
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:	05/19/2017
FAX:		EXPIRES:	05/19/2020
DESTINATION:	SePRO Corporation, 16013 Watson Seed Farm Road, Whitakers, NC 27891		
RELEASE:	No		

Under the conditions specified, this permit authorizes the following:

Article Category: Federal Noxious Weeds

<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 (Pontederiaceae)	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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Anwar Syed Rizvi

DATE

05/19/2017

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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

PERMIT GUIDANCE

This permit does not fulfill the requirements of other federal or state regulatory authorities. As appropriate, please contact 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, or your State's Department of Agriculture to ensure proper permitting.

Receipt or use of foreign regulated organisms or samples from countries under sanctions requires specific permission from the U.S. Department of Treasury (see <http://www.ustreas.gov/offices/enforcement/ofac/sanctions> for current country/regional listings) for current country listings.


This permit does not authorize importation, interstate movement, possession, and/or use of strains of genetically engineered regulated organisms (created by the use of recombinant DNA technology). 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_anproducts.shtml

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

This permit authorizes the interstate movement of whole plants, plant parts etc. of the listed Federal Noxious Weeds (FNWs - the Regulated Materials) from various researchers within the continental United States to Ben Willis at SePRO Corporation in Whitakers, North Carolina for research in Containment Facility #766 (CF#766). This permit authorizes research to take place in laboratories, growth chambers, greenhouses, shadehouses and outdoor ponds in CF#766.

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 Anwar Syed Rizvi	05/19/2017

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1. The permit holder must:
 - (a) comply with all requirements and permit conditions,
 - (b) maintain a valid permit so long as the regulated materials are alive,
 - (c) not assign or transfer this permit to other persons without APHIS-PPQ authorization,
 - (d) safeguard and dispose of the regulated materials during the term of this permit,
 - (e) take all necessary precautions to prevent the unauthorized release of regulated materials. In the event of an unauthorized release, the permit holder must notify the permit unit,
 - (f) adequately mitigate environmental impacts resulting from unauthorized release of regulated materials,
 - (g) contain any/all materials not authorized under this permit,
 - (h) notify the permit unit of the receipt of unauthorized materials,
 - (i) notify the permit unit if facilities are destroyed or decommissioned for any reason,
 - (j) maintain an official permanent work assignment at the address on this permit,
 - (k) notify the permit unit in advance of any change in the permit holder's work assignment,
 - (l) destroy all regulated materials prior to departure from the organization unless other arrangements are confirmed by the permit unit prior to parting, and
 - (m) notify the permit unit of the destruction of regulated materials.


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

2. This permit does not authorize movement or use of plant pathogens listed in the Public Health Security and Bioterrorism Preparedness and Response Act of 2002. If any organism listed as a Select Agent is identified from materials associated with this research, the permit holder is required to notify APHIS, Agricultural Select Agent Program (ASAP) immediately by phone at 301-851-3300, and within seven (7) days submit APHIS/CDC Form 4 (Report of Identification of a Select Agent or Toxin in a Clinical or Diagnostic Laboratory) to APHIS, ASAP; 4700 River Rd, Unit 2, Riverdale, MD 20737 (see instructions at: http://www.aphis.usda.gov/programs/ag_selectagent/index.shtml). Failure to comply with this requirement is a violation of the Agricultural Bioterrorism Protection Act of 2002.
3. Without prior notice and during reasonable hours, authorized PPQ and/or State regulatory officials shall be allowed to inspect the conditions associated with the regulated organisms authorized under this permit.
4. All regulated materials must be visually free of diseases, insects or other plant pests and/or contaminants.

Field-collected samples of regulated materials must be "bare-root" or washed free of soil.

5. All regulated materials must be shipped in packages of such materials and/or construction so as to prevent the unauthorized dissemination or release of regulated articles.
6. Upon receipt, all packages must be opened within the permit holder's assigned research facilities to ensure the shipment contains only permitted regulated materials and is free of obvious contaminants. Seeds must be in covered containers during transport to or within the permit holder's assigned research facilities.
7. All packaging materials must be cleaned of all propagative plant parts prior to disposal. All un-used and leftover regulated materials must be sufficiently heat or chemically treated to kill all potentially propagative material and any contaminants prior to disposal.
8. All seed packets/containers are to be labeled with "Quarantined material - to be used only in accordance with current USDA Noxious Weed permit", or similar language, and are to be stored in a locked cabinet or other secure place with access restricted to authorized personnel only.
9. All growing areas are to be posted with signage that reads "Quarantined 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.

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<p style="text-align: center;"> Anwar Syed Rizvi</p>	<p style="text-align: center;">05/19/2017</p>

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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. There is to be no further movement or distribution of the regulated materials without prior approval from State and Federal regulatory officials.
15. Upon completion of research all potentially propagative regulated materials must be treated by heat or chemical means sufficient to kill, destroy, or otherwise deactivate that propagative material prior to disposal.

Example: Autoclaving Waste

- a. Waste must be autoclaved at 121 degrees Centigrade (250 degrees Fahrenheit) for a minimum of 30 minutes.
 - b. 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.
 - c. The autoclave must be professionally calibrated annually and a written record must be maintained.
 - d. Every 3 months, you must use a commercially available biological indicator kit that uses bacterial spores (e.g. Geobacillus species) that are rendered unviable at 121 degrees
 - C. You must follow the manufacturers instructions. If any growth is observed, you must have the autoclave serviced and retested.
16. A copy of this permit must accompany each shipment
 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. Nymphoides 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

12-18-2018

Section B - To be Completed by Plant Protection Section

18. Conditions of Approval

All Conditions Have Been Met.

19. Status

- Approve Disapprove

20. Signature and Title of NCDA&CS Official

[Signature]

21. Date

12-20-18

22. Permit No.

12-18-01

23. Permit Expiration Date

12-2020

24. Pest Category

Weed

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	