



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

PERMITTEE NAME: Ben Willis PERMIT NUMBER: P526P-14-02353

ORGANIZATION: SePRO Corporation APPLICATION NUMBER: P526-140513-003

ADDRESS: 16013 Watson Seed Farm Road FACILITY NUMBER: 766

Whitakers, NC 27891

MAILING ADDRESS: 16013 Watson Seed Farm Road HAND CARRY: Yes

Whitakers, NC 27891

PHONE: 06/20/2014 06/20/2014

PHONE: (252) 301-7891 FAX: EXPIRES: 06/20/2017

DESTINATION: SePRO Corporation, 16013 Watson Seed Farm Road, Whitakers, NC 27891

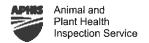
Under the conditions specified, this permit authorizes the following:

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Article Category: Feder	ral Noxious Weed	ls		
Regulated Article	Life Stage(s)	Intended Use	Shipment Origins	Originally Collected Culture Designation
Azolla pinnata	Plant Parts, Seeds, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from Foreign Locations
Hydrilla verticillata (Hydrocharitaceae)	Plant Parts, Seeds, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from Foreign Locations
Hygrophila polysperma (Acanthaceae)	Plant Parts, Seeds, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from Foreign Locations
Ipomoea aquatica	Plant Parts, Seeds, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from Foreign Locations
Limnophila sessiliflora (Scrophulariaceae)	Plant Parts, Seeds, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from Foreign Locations
Salvinia biloba (Salviniaceae)	Plant Parts, Seeds, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from Foreign Locations
Salvinia herzogii (Salviniaceae)	Plant Parts, Seeds, Whole Plants	Research - Greenhouse (growth chamber and lab included)	Continental U.S.	Originally Collected from Foreign Locations

Permit Number P526P-14-02353

THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.	DATE
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Vickie Brewster	06/20/2014





Salvinia molesta (Salviniaceae) Plant Parts, Seeds, Whole Plants Research - Greenhouse (growth chamber and lab included)

Continental U.S.

Originally Collected from Foreign Locations

PERMIT GUIDANCE

Receipt or use of foreign isolates or samples from countries under sanctions requires specific permission from the U.S. Department of Treasury (see http://www.treasury.gov/resource-center/sanctions/Programs/Pages/Programs.aspx 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.sh tml

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 States Department of Agriculture to ensure proper permitting.

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) 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.

- 1. The permit holder must:
 - (a) comply with all requirements and permit conditions,
 - (b) maintain a valid permit so long as the regulated organisms are alive,
 - (c) this permit cannot be assigned or transferred to other persons.
 - (d) permittee must maintain a permanent residence in the United States
 - (e) safeguard and dispose of the regulated organisms during the term of this permit,
 - (f) take all necessary precautions to prevent the unauthorized release of regulated organisms. In the event of an unauthorized release, the permit holder must notify the permit unit,
 - (g) adequately mitigate environmental impacts resulting from unauthorized release of regulated organisms,
 - (h) contain any/all organisms not authorized under this permit,
 - (i) notify the permit unit of the receipt of unauthorized organisms,
 - (j) notify the permit unit if facilities are destroyed or decommissioned for any reason,
 - (k) maintain an official permanent work assignment at the address on this permit,
 - (1) notify the permit unit in advance of any change in the permit holder's work assignment,
 - (m) destroy all regulated organisms prior to departure unless other arrangements are confirmed by the permit unit prior to the permit holder's departure, and
 - (n) notify the permit unit of the destruction of regulated organisms.

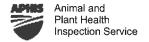
Notifications to the permit unit must be made via 866-524-5421 or pest.permits@aphis.usda.gov within one business day of the event triggering a notification.

THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.

Vickie Brewster

06/20/2014

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 \$ years, or both (18 U.S.C.s 1001)





- 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. Field-collected samples of plant material may be shipped with a small amount of soil/sediment on the roots.
- 5. All plant material must be visually free of diseases, insects or other plant pests and obvious contaminants.
- 6. All plant material must be shipped in packages of such materials and/or construction so as to prevent the unauthorized dissemination or release of regulated articles.
- 7. Upon receipt, all packages must be opened within the permit holder's assigned laboratory facilities within CF#766 to ensure the shipment contains only permitted organisms and is free of contaminants. Seeds or other propagative plant parts must be in covered containers during transport to or within the permit holder's assigned laboratory facilities.
- 8. All packaging materials must be cleaned of all propagative plant parts prior to disposal. All un-used and leftover plant material must be sufficiently heat or chemically treated to kill all potentially propagative material and any contaminants prior to disposal.
- 9. All growing areas are to be posted with signage that reads "Quarantined material to be used only in accordance with current USDA Noxious Weed permit", or similar language.
- 10. All research activities must occur in laboratories, growth chambers, greenhouses, shadehouses and outdoor ponds within CF#766 that have been found adequate for containment of the organisms received under this permit. Access to laboratories, growth chambers, greenhouses, shadehouses and outdoor ponds must be restricted to authorized personnel.
- 11. The use of outdoor experimental ponds is authorized for monoecious Hydrilla verticillata only. All other Federal Noxious Weeds are restricted to laboratories, growth chambers, greenhouses and enclosed shadehouses.
- 12. All water used to grow or process FNWs and all sediments associated with FNWs must be treated as outlined in the SePRO Corporation Standard Operating Procedures dated 3 June, 2013 on file with USDA APHIS. Changes to this document must be approved by USDA APHIS PPQ PHP Pest Permitting Branch.
- 13. Plant material must be maintained in the permit holder's laboratory or growing facilities within CF#766. All stored plant material must be kept in a locked area with access restricted to authorized personnel.
- 14. Upon completion of research, all plant material, soil, sediment or other growing media must be treated by heat or chemical means sufficient to kill, destroy, or otherwise deactivate any potential propagative material of the FNWs. All materials used to conduct research must be decontaminated prior to reuse or disposal.
- 15. There is to be no further movement or distribution of plant material without prior approval from State and Federal regulatory officials.
- 16. 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

THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING
PPQ HEADQUARTER OFFICIAL VIA EPERMITS.

Vickie Brewster

06/20/2014

Section A - To be Completed by Applicant North Carolina Department of Agriculture and Consumer Services 1. Name, Title, Address, and E-Mail Ben Willis 1060 mail Serice Center Laboratory and Research Group Manager Raleigh, NC 26799-1060 SePRO Corporation Research and Technology Campus Application and Scientific Permit to Move 16013 Watson Seed Farm Rd **Plant Pests or Regulated Articles** Whitakers 27891 2. Tye of Pest to be Moved 3.Telephone Number: 252-301-7891 Arthropods ✓ Noxious Weeds Other Fax Number: 252-437-3280 Pathogens **Regulated Articles** ben.willis@sepro.com SpecifyOther: Scientific Name of NO. of Are Pests Host(s) of Life Pest Specimens Stage(s) of Pests or Regulated Established in the Pest Classification Origin or Units Articles Pest Yes NC? No U.S. N/A Azolla pinnata Federal Noxious Weed: Multiple Mature or tuber N/A U.S. Hydrilla verticallata Multiple ederal Noxious Weed: Mature V Hygrophila polysperma N/A ederal Noxious Weed: U.S. Multiple Mature N/A ederal Noxious Weed Multiple U.S. Ipomoea aquatica Mature <u>v</u> 5. Limnophila sessiliflora N/A ederal Noxious Weed U.S. Multiple Mature V ederal Noxious Weed: U.S. N/A Salvinia spp. Multiple Mature V Nymphoides cristata State Noxous Weeds Mature Multiple u.s. N/A 6. Nymphoides peltata State Noxous Weeds Mature Multiple LLS. N/A Myriophyllum spicatum State Noxous Weeds Multiple Mature U.S. N/A 8. Destination 7. Indicate any host materials which may accompany pes N/A Whitaker, NC 9. Supplier 10. No. of Shipments 11. Arrival Date 12. Method of Shipment and Packaging Various 4/18/2013 multiple overnight air freight in sealed containers 13. Intended Use (Outline intended research - use attachments if neccessary) Aquatic weed control research 14. Methods to be Used to Prevent Plant Pest Escape 15. Method of Final Disposition Chemical bleaching, drying, freezing prior to burial Landfill burial 16. Signature of Applicant (I hereby certify that the information in this application and all attachments are 17. Date complete and accurate to the best of my knowledge and belief) 4/17/2013 Section B - To be Completed by Plant Protection Section 18. Conditions of Approval See Attachment -20. Signature and Title of NCDA and CS Official 19. Status 21. Date Approved 4/18/2013 Disapproved 23. Permit Expiration Date 22. Permit No. 24. Pest Category 041713001 4/17/2019 **Noxiious Weed**

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North Carolina Depa	Section A – to be Completed by Applicant								
& Consumer Services Plant Industry – Plant Protection Section			1. Name, Title, Address, and E-mail Michael Shaner – Laboratory and Research Group Manager SePRO Corporation						
1060 Mail S Raleigh, N.C.	Research and Technology Campus 16013 Watson Seed Farm Rd.								
Application and Scie	ntific Permit (n Maye	Whitakers, NC 27891						
Application and Scientific Permit to Move Plant Pests or Regulated Articles			michaels@sepro.com						
2. Type of Pest to be Moved	8		3. Telephone Number: 252-391-8370						
Pathogens Regulated Articles			Fax Number : 252-437-3280						
Scientific Name of Pests	Pest	Life	Number of	Origin	Are Pests		Host(s) of the Pest		
or Regulated Articles	Classification	Stage(s) of Pest	Specimens or Units		Estab N.C.?	lished in			
4. Azolla pinnata	All Fed.	Mature	All	All	No		N/A		
Hydrilla verticillata	Noxious	Mature	multiple	Cont.	Monoecious -yes		1,721		
5 //	Weeds	or tuber	AH	U.S.	Dioecious - no		37/4		
5. Hygrophila polysperma Ipomoea aquatica Limnophila sessiliflora Salvinia spp.	All Fed. Noxious Weeds	All mature	All multiple	All Cont. U.S.	All No		N/A		
6 November des societados	A 11 C4-1	A 11	4.11	A 11 C	N.		27/4		
6. Nymphoides cristata Nymphoides peltata	All State of NC Noxious	All mature	All multiple	All Cont. U.S.	No No		N/A		
Myriophyllum spicatum	Weeds				Yes				
7. Indicate any host materials which may accompany pest (indicate by Line no.) Not applicable			8. Destination Whitakers, NC						
A C P	1.0 N 601								
9. Supplier Various 10. No. of Shipments multiple		multiple Packaging:				of Shipment and overnight air aled containers.			
13. Intended Use (Outline in Aquatic weed control research		ı – use attac	hments if nece	essary)					
14. Methods to be Used to F	revent Plant Pe			thod of Fins	ıl Dispo	sition			
Chemical bleaching, drying, freezing prior to burial Landfill burial									
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). Modd Market Signature of Applicant (I hereby certify that the information in this application and all attachments are complete and April 17, 2013									
S	ection B – To		leted by Plan	nt Protect	ion S	ection			
18. Conditions of Approval SEE ATTACHED ADDEND	UM								
19. Status 20. Signature a			and Title of NCDA&CS Official				21. Date		
ApproveDi	1. Will				4/18/13				
22. Permit No. 041713001	iration Date				24. Pest Category Noxious Weed				

North Carolina Department of Agriculture and Consumer Services Plant Industry Division Plant Protection Section



Regulatory Weed Program

Addendum to "Application and Scientific Permit to Move Plant Pests or Regulated Articles", NCDA&CS permit number 041713001, submitted by Michael Shaner on 4/17/2013.

Azolla pinnata, Hydrilla verticillata, Hygrophila polysperma, Ipomoea aquatic, Limnophila sessiliflora and Salvinia molesta are Federal Noxious Weeds and Nympoides cristata and Nymphoides peltata are class A State Noxious Weeds. Their movement into and within the state of North Carolina is prohibited except under permit for scientific or educational purposes. Myriophyllum spicatum is a class B state Noxious Weed. It's movement into North Carolina and its movement from Halifax, Northampton, Perquimans, Tyrrell, and Warren Counties in North Carolina are prohibited except under permit for scientific or educational purposes.

The following conditions shall apply under this permit:

- 1. Live Azolla pinnata, Hydrilla verticillata, Hygrophila polysperma, Ipomoea aquatica, Limnophila sessiliflora, Salvinia molesta, Myriophyllum spicatum, Nymphoides cristata and Nymphoides peltata material must be packed and covered in secure containers for transport, the containers must be labeled as to content, and a copy of this permit must accompany the material.
- 2. Live Azolla pinnata, Hydrilla verticillata (dioecious type), hygrophila polysperma, Ipomoea aquatica, Limnophila sessiliflora, Salvinia spp., Nymphoides cristata and Nymphoides peltata materials must be maintained in secure, restricted-access indoor areas of the facilities of the SePRO Corporation Research and Technology Campus located at 16013 Watson Seed Farm Road, Whitakers, NC (SePRO-RTC). The areas will be locked except during working hours. The material will be kept in aquaria, flasks, or other containers. Herbicide exposure testing will be conducted in growth chambers and growth rooms.

Page 2 of 2

- 3. Live monoecious *Hydrilla verticillata* and live *Myriophyllum spicatum* materials may be maintained as noted in item 2 above. Additionally, these materials may also be maintained for test purposes in the outdoor tanks and ponds of the facility which are protected and secured from public entry by the existing fence at the facility.
- 4. The listed plant material shall remain under the direct supervision of Michael Shaner or designated staff persons of SePRO-RTC at all times. The material shall be clearly labeled with a certificate (attached) provided by North Carolina Department of Agriculture and Consumer Services.
- 5. Excess and residual plant material shall be destroyed by treatment with 10% bleach solution, by freezing, or by oven drying at 110 degrees C for 12 hours before being placed in plastic bags for burial or disposal in a land fill.
- 6. This authorization is strictly for research at the SePRO Research and Technology Campus.
- 7. Any security problems associated with movement or testing of the plant material shall be reported immediately o the NCDA&CS Weed Specialist (919) 733-6931 X246).
- 8. Failure to comply with any of the conditions outlined may result in revocation of the permit.

Weed Specialist

rick freezest

Rick Iverson

Plant Pest Administrator

Il when

Phil Wilson

North Carolina Department of Agriculture Plant Industry Division, Plant Protection Section

This Plant material, *Azolla pinnata*, is for educational and research purposes only and has been moved under authority of the North Carolina Plant Pest Law, Article 36, Chapter 106, of the General Statutes of North Carolina. Violators of the Plant Pest Law will be guilty of a misdemeanor and will be subject to the penalties and fines outlined in the law.

Permit Number: 041713001

Expiration Date: 04/17/2019

Richard D. Iverson Weed Specialist

North Carolina Department of Agriculture Plant Industry Division, Plant Protection Section

This Plant material, *Hydrilla verticillata*, is for educational and research purposes only and has been moved under authority of the North Carolina Plant Pest Law, Article 36, Chapter 106, of the General Statutes of North Carolina. Violators of the Plant Pest Law will be guilty of a misdemeanor and will be subject to the penalties and fines outlined in the law.

Permit Number: 041713001

Expiration Date: 04/17/2019

Richard D. Iverson Weed Specialist

*Duplicate locally as needed...

STATE NOXIOUS WEED CERTIFICATE*

North Carolina Department of Agriculture Plant Industry Division, Plant Protection Section

This Plant material, Salvinia spp., is for educational and research purposes only and has been moved under authority of the North Carolina Plant Pest Law, Article 36, Chapter 106, of the General Statutes of North Carolina. Violators of the Plant Pest Law will be guilty of a misdemeanor and will be subject to the penalties and fines outlined in the law.

Permit Number: 041713001

Expiration Date: 04/17/2019

Richard D. Iverson Weed Specialist

North Carolina Department of Agriculture Plant Industry Division, Plant Protection Section

This Plant material, *Nymphoides cristata*, is for educational and research purposes only and has been moved under authority of the North Carolina Plant Pest Law, Article 36, Chapter 106, of the General Statutes of North Carolina. Violators of the Plant Pest Law will be guilty of a misdemeanor and will be subject to the penalties and fines outlined in the law.

Permit Number: 041713001

Expiration Date: 04/17/2019

Richard D. Iverson Weed Specialist

*Duplicate locally as needed.

STATE NOXIOUS WEED CERTIFICATE*

North Carolina Department of Agriculture Plant Industry Division, Plant Protection Section

This Plant material, *Nymphoides peltata*, is for educational and research purposes only and has been moved under authority of the North Carolina Plant Pest Law, Article 36, Chapter 106, of the General Statutes of North Carolina. Violators of the Plant Pest Law will be guilty of a misdemeanor and will be subject to the penalties and fines outlined in the law.

Permit Number: 041713001

Expiration Date: 04/17/2019

Richard D. Iverson Weed Specialist

North Carolina Department of Agriculture Plant Industry Division, Plant Protection Section

This Plant material, *Myriophyllum spicatum*, is for educational and research purposes only and has been moved under authority of the North Carolina Plant Pest Law, Article 36, Chapter 106, of the General Statutes of North Carolina. Violators of the Plant Pest Law will be guilty of a misdemeanor and will be subject to the penalties and fines outlined in the law.

Permit Number: 041713001

Expiration Date: 04/17/2019

Richard D. Iverson Weed Specialist

*Duplicate locally as needed

STATE NOXIOUS WEED CERTIFICATE*

North Carolina Department of Agriculture Plant Industry Division, Plant Protection Section

This Plant material, *Limnophila sessiliflora*, is for educational and research purposes only and has been moved under authority of the North Carolina Plant Pest Law, Article 36, Chapter 106, of the General Statutes of North Carolina. Violators of the Plant Pest Law will be guilty of a misdemeanor and will be subject to the penalties and fines outlined in the law.

Permit Number: 041713001

Expiration Date: 04/17/2019

Richard D. Iverson Weed Specialist

North Carolina Department of Agriculture Plant Industry Division, Plant Protection Section

This Plant material, *Hygrophila polysperma*, is for educational and research purposes only and has been moved under authority of the North Carolina Plant Pest Law, Article 36, Chapter 106, of the General Statutes of North Carolina. Violators of the Plant Pest Law will be guilty of a misdemeanor and will be subject to the penalties and fines outlined in the law.

Permit Number: 041713001

Expiration Date: 04/27/2019

Richard D. Iverson Weed Specialist

*Duplicate locally as needed.

STATE NOXIOUS WEED CERTIFICATE*

North Carolina Department of Agriculture Plant Industry Division, Plant Protection Section

This Plant material, *Ipomoea aquatica*, is for educational and research purposes only and has been moved under authority of the North Carolina Plant Pest Law, Article 36, Chapter 106, of the General Statutes of North Carolina. Violators of the Plant Pest Law will be guilty of a misdemeanor and will be subject to the penalties and fines outlined in the law.

Permit Number: 041713001

Expiration Date: 04/27/2019

Richard D. Iverson Weed Specialist