

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

**Permit to Receive Soil
Regulated by 7 CFR 330**

This permit was generated electronically via the ePermits system.

PERMITTEE NAME:	Thomas Powell	PERMIT NUMBER:	P330-11-00188
COMPANY:	EcoTest Laboratories Incorporated	APPLICATION NUMBER:	P525-110217-004
RECEIVING ADDRESS:	377 Sheffield Avenue North Babylon, NY 11703	DATE ISSUED:	04/28/2011
MAILING ADDRESS:	377 Sheffield Avenue North Babylon, NY 11703		
PHONE:	(631) 422-5777	EXPIRES:	04/28/2014
FAX:	(631) 422-5770		

PORTS OF ARRIVAL/PLANT INSPECTION STATIONS: KY, Louisville; NY, Albany; NY, Alexandria Bay; NY, Brooklyn; NY, Buffalo; NY, Champlain, Rouses Point; NY, Jamaica; NY, Jamaica; NY, Newburgh; TN, Memphis; Various Ports of Entry Staffed by CBP-Agriculture Specialists

HAND CARRY: Yes

Under the conditions specified, this permit authorizes the following:

Quantity of Soil per Shipment and Treatment

3 lbs or less: Sterilization will interfere with intended use

SPECIAL INSTRUCTIONS TO INSPECTORS

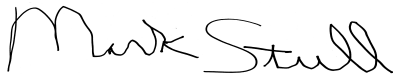
See permit conditions below

INSTRUCTIONS TO DHS CBP INSPECTORS:

1. Confirm that the carrier of the shipment imported under this USDA PPQ 525 permit is commercially bonded. For all hand carry events, go to step 4.
2. Confirm that the imported shipment has a valid USDA PPQ Form 550 Black/White label attached to the exterior of the package.
3. Validate the permit in ePermits using the CBP search feature at: <https://epermits.aphis.usda.gov/epermits>
4. For all hand carry events, the port of entry must have received prior notice by e-mail, fax, or telephone of the arrival of the passenger including date of arrival and flight information from Headquarters, OFO, and APL. This notice communicates specific instructions to the port of entry.
5. For all hand carry events, a valid PPQ Form 550 Black/White label specifying hand carry must be presented. A single PPQ Form 550 Black/White label specifying hand carry may be used for multiple specimens covered under one permit at border crossings.
6. If the permitted shipment arrives by hand carrying, in personal luggage, or by personal automobile without a hand carry authorization as specified in both the permit and the PPQ Form 550 Black/White label, seize the shipment and forward it to the nearest USDA APHIS PPQ Plant Inspection Station.

For questions or concerns, contact the USDA APHIS PPQ Permit Unit in Riverdale, MD, at 866-524-5421.

Permit Number P330-11-00188

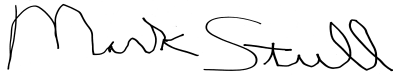
THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.	DATE
 Mark A. Stull	04/28/2011

PERMIT CONDITIONS

This permit authorizes the importation and interstate/ domestic movement of soil from all foreign sources(except countries with sanctions or embargoes by US State Department), the continental US, and all US territories only for chemical/ physical analysis in a controlled laboratory environment at the named facility on the permit. It is not authorized for use in field research or release into the environment.

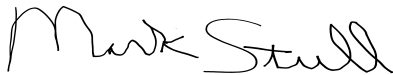
1. This permit is issued only for the named permit holder at the address(s) identified on this permit. This permit cannot be transferred or assigned nor does it fulfill or modify the requirements of any other federal or state regulatory authority (such as the U.S. Environmental Protection Agency, the U.S. Fish and Wildlife Service, the U.S. Food and Drug Administration, the Centers for Disease Control and Prevention, or the Animal Health Protection Act- 7U.S.C. 8301, or your State's Department of Agriculture).
2. The permit holder verifies United States residency by initialing and accepting these permit conditions. If you are not a United States resident, it is unlawful for you to initial or accept these permit conditions because a USDA 525 soil Permit can only be issued to United States residents.
3. The permit holder is solely responsible for ensuring compliance with all statutory requirements and specifically listed permit conditions. Failure to comply with the terms and conditions of this permit is cause for the following: (a) cancellation of this permit, (b) cancellation of other permits issued to the permit holder, (c) seizure and/or destruction of regulated organisms, (d) denial of future permit applications by this permit holder, (e) liability for civil penalties, and (f) criminal prosecution under provisions in the Plant Protection Act.
4. Any alteration, forgery, unauthorized use of this permit and/or associated Federal Forms are subject to civil and criminal penalties including fines and imprisonment.
5. Importation, interstate movement, possession, and use of strains of genetically engineered regulated organisms (created by use of recombinant DNA technology) are not authorized under this permit.
6. 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) within one business day by phone at 866-524-5421, 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.
7. If a regulated organism is received in this shipment, the permit holder must take all prudent measures to contain the organism(s) and notify the permit unit within one business day by calling 866-524-5421 or by e-mail to pest.permits@aphis.usda.gov. The permit holder must immediately notify the permit unit of the destruction of regulated organisms received under this permit, as above. Similarly, the permit holder must immediately notify the permit unit if facilities are destroyed or decommissioned for any reason.
8. You as the permit holder are responsible for maintaining a valid permit for as long as the soil is in your possession. APHIS does not issue extensions or renewals of existing permits; the permit holder must submit a new permit application at least three months prior to the expiration of this permit, and obtain a new permit to continue uninterrupted authorization for the soil approved under this permit.
9. If an accidental release into the environment occurs, notification must be made within one business day to APHIS, PPQ, 4700 River Rd., unit 133; Riverdale, MD 20737; 866-524-5421. A written report of the incident must be submitted identifying: (a) the name of the permit holder (responsible person), (b) the permit number, (c) the country or State of origin of the soil, (d) the nature of the release, and (e) measures already taken to contain, reduce or limit the effects of the accidentally released soil. Any plans prepared to contain, reduce or limit the effects of the accidentally released soil may be submitted as developed.
10. 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 soil authorized under this permit.

Permit Number P330-11-00188

<p>THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.</p>	<p>DATE</p>
<p> Mark A. Stull</p>	<p>04/28/2011</p>

11. The permit holder must maintain an official permanent work assignment at the address identified on this permit. If the permit holder ceases assignment/affiliation at the address identified on this permit, or personnel circumstances change in any way, then a compliance officer must be notified at the PPQ permit unit immediately (that is, within one business day) by either (a) email to pest.permits@aphis.usda.gov, (b) fax to 301-734-4300 or 8700, or (c) conventional mail to USDA PPQ Permit Unit, 4700 River Road, Riverdale, MD 20737. Should the permit holder depart from the organization/facility, the permit holder will either (a) request cancellation of this permit and comply with all permit-specific termination conditions, (b) apply for and receive a permit to move the soil to a new facility, or (c) relinquish control of the regulated soil to a qualified individual who obtained a permit for the continued use of this regulated soil prior to this permit holder's departure.
12. A copy of this permit must accompany all shipments authorized under this permit.
13. CBP-AI and PPQ have the authority to order and approve treatment, re-exportation or destruction of a shipment, a portion of a shipment or any other material associated with the shipment (i.e. pallets, packaging, and means of conveyance). If an official of CBP-AI or PPQ determines that the shipment requires treatment as a condition of entry, is contaminated with a quarantine plant pest or pests, is commingled with prohibited plant material or the required documentation is incomplete or missing, then that official may order and approve treatment, re-exportation or destruction of a shipment, a portion of a shipment or any other material associated with the shipment (i.e. pallets, packaging, means of conveyance).
14. All solid wood packing material (SWPM) accompanying the shipment must be in compliance with ISPM 15 treatment regulations and IPPC stamp requirements and enforcement. Noncompliant shipments will be treated, re-exported or destroyed at the consignee's expense.
15. All costs and arrangements for safeguarding and transportation of the cargo are the responsibility of the importer, broker or other parties associated with the shipment.
16. All operations must be consistent with information submitted in association with the above listed APHIS-PPQ inspected facility and subject to the conditions below.
17. Soil shall be shipped in a securely closed, watertight container (primary container, test tube, vial, etc.) which shall be enclosed in a second, durable watertight container (secondary container).
18. The shipment must be free from foreign matter or debris, plants and plant parts including noxious weeds and infestations by other macroorganisms such as insects, Cyst nematode nematodes, mollusks and acari. Authorized material found to be commingled with unauthorized material will be subject to the same action (i.e. re-export, destruction) as unauthorized material.
19. The imported article can be released without treatment at the port of entry to the permittee's address listed on the permit or label or to an authorized user only if the final destination is an approved facility listed at <https://web01.aphis.usda.gov/PPQ/AuthSoilLabs.nsf/web?openform>.
20. This permit does not authorize the use of soil for growing purposes, for isolation or culture of organisms, or for extracting and concentrating organisms from the soil.
21. Further distribution of soil is not allowed without prior approval from Federal officials [State Plant Health Director or designee] (or from Federal officials with State concurrence): Access the website at <http://www.aphis.usda.gov/ppq/sphd/> for a list of State Plant Health Offices. Access the website at <http://nationalplantboard.org/member/index.html> for a list of State Plant Regulatory Officials.
22. While in storage, all soil will be kept locked (e.g. in freezer, cabinet) in the approved lab with access limited to authorized personnel or they will be in a restricted access building that requires a key card entry and access is restricted to authorized personnel only; or it will be in locked room restricted to authorized personnel only.
23. The soil will be handled as quarantined material until sterilized. This will include keeping the soil enclosed in containers when not in use and labeling all containers and/or storage areas: "Quarantine Soil- Sterilize Before Disposal"
24. All packing material, media, substrate, and shipping containers shall be sterilized or destroyed as approved and prescribed by the permit conditions after removing the soil.
25. All unconsumed soil, containers and effluent are to be autoclaved, incinerated or properly sterilized by the permittee at the conclusion of the project as approved and prescribed by the permit conditions.

Permit Number P330-11-00188

<p>THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.</p>	<p>DATE</p>
<p> Mark A. Stull</p>	<p>04/28/2011</p>

- 26. Any water residues (effluent) from the processing of soil samples must be treated by an approved sterilization procedure such as hydroclave or autoclave.
- 27. All soil residues must be dry-heated, incinerated, hydroclaved or autoclaved.

Using incineration all soil residues completely reduced to ash

Dry Heat Treatment: use one of the following schedules:

- 110- 120.5 degrees C (230-249 F) for 16 hours
- 121-154 degrees C (250-309 F) for 2 hours
- 154.4 - 192.5 degrees C (310-379 F) for 30 minutes
- 193-220 degrees C (380-429 F) for 4 minutes
- 221-232 degrees C (430-450) for 2 minutes.

Time starts when the entire sample reaches the required temperature, and a suitable temperature probe must be used for verification.

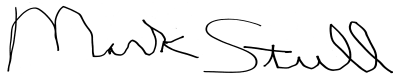
Hydroclave soil and other material using the following conditions:

- a. Soil must be hydroclaved at 121 degrees Centigrade (250 degrees Fahrenheit) for a minimum of 30 minutes, or at 132 degrees Centigrade for a minimum of 15 minutes.
- b. Hydroclaves vary; therefore, the manufacturers recommendations for hydroclave usage and maintenance must be followed, and these instructions must be readily available for review by PPQ.
- c. The hydroclave log must be completed by each user for each hydroclave cycle. All parameters must be noted as listed on the log for each hydroclave load.
- d. Observe the temperature sensor to ensure that the hydroclave maintains its required temperature. If the required temperature is not attained, you must contact the person responsible for maintaining the unit to initiate repairs. In the interim, waste must be treated either by an alternate treatment method, or at a PPQ inspected facility.

28. Autoclave soil and other material using the following conditions:

- a. Soil must be autoclaved at 121 degrees Centigrade (250 degrees Fahrenheit) for a minimum of 30 minutes at 15 psi.
- b. Autoclave tape or other indicators must be placed on each bag or sharps container prior to treatment. The autoclave tape or other indicator on each container must be checked to verify color change before disposal.
- c. The autoclave log must be completed by each user for each autoclave cycle. All parameters must be noted as listed on the log for each autoclave load.
- d. If the autoclave does not attain the minimum time and/or temperature or the autoclave tape does not change color, a notation must be made in the comment section of the autoclave log. The load must then be re-autoclaved after placing new tape on the material. If minimum time and temperature is not attained on the second cycle, users must contact the person responsible for maintaining the unit to initiate repairs. Waste should then be treated at an alternate autoclave facility that is approved by USDA.
- e. Thermometers on the autoclave must be calibrated annually, and a written record must be maintained. This should be done by an authorized autoclave service company during routine servicing.
- f. Every 6 months, you should use a commercially available test indicator kit that uses bacterial spores *Bacillus stearothermophilus* that are rendered unviable at 250 degrees F or 121 degrees C. For the test, ampules of *B. stearothermophilus* are autoclaved along with a load of waste. Upon completion of the cycle, the ampules are

Permit Number P330-11-00188

<p>THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.</p>	<p>DATE</p>
<p> Mark A. Stull</p>	<p>04/28/2011</p>

incubated for 48 hours and then observed for any sign of growth, which indicates insufficient sterilization. If any growth is observed, you must have the autoclave serviced and retested.

29. Equipment and supplies used to conduct operations or that have contacted the soil must be decontaminated using one of the following methods:

- (a) Material can be soaked in a fresh bleach solution of 10 percent (1:9) for at least 30 minutes (1:10 is a convention that means 1 in 10 or 1 part 9 parts = 10 parts total, which is a 10 percent solution)
- (b) Material can be soaked in 70 percent ethanol
- (c) Flamed with ethanol
- (d) Treated with quaternary ammonium compounds.

Note also that autoclaving, incineration, and dry heat sterilization are also acceptable sterilization/decontamination methods.

30. You must attach a PPQ Form 550 Black/White label to the exterior of each shipment being imported under this permit. We will send you the PPQ Form 550 Black/White labels upon issuance of this permit (i.e., a signed PPQ permit) by bonded courier. You may request additional labels by email at: BlackWhiteGreenYellow.labelrequest@aphis.usda.gov. You must specify the type of label you are requesting, PPQ Form 550 Black/White labels, and the number of labels needed.

31. Underlying packaging/wrapping must carry the address, billing, and any other information required to direct the shipment to its final destination (i.e., the permit holder's address; Please note: USDA APHIS does not defray any additional shipping costs incurred for transiting the shipment through an inspection station as the initial US destination).

32. The following conditions apply to all authorized soil hand carry events:

1. At least 20 days prior to each hand carry event, the permit holder or designee must notify the PPQ Permit Compliance Officer or designee by email (BlackWhiteGreenYellowlabelrequest@aphis.usda.gov) or telephone (866-524-5421) to provide specific information on the hand carrier's identity, the anticipated first port of arrival into the United States, the actual date of arrival, the time, and, if border crossing, license plate number or if travel by airline, the flight number. The Compliance Officer or designee will notify an official of CBP Agricultural Programs and Trade Liaison (APTL) to document and facilitate the entry of the soil.

2. The hand carrier must indicate that soil is being imported under a USDA permit on the Customs Declaration form if such form is required at the port of entry.

3. At the port of entry, individuals carrying permitted soil must also present to CBP officers the following articles: U.S. Passport or Visa and a valid hand carry PPQ Form 550 Black/White label corresponding to the permit.

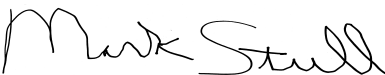
4. Inspection by CBP Officers must confirm that all hand carried articles are securely packaged as per the permit conditions. In the event that a problem is detected, the CBP officer may seize the package and require its movement to the nearest PPQ Inspection Station for processing, clearance or destruction. The permit holder will be responsible for all costs incidental to such forwarding.

5. After CBP confirmation and clearance through the first port of entry into the United States, hand carried soil must be transported directly to the containment facility authorized in the permit.

6. Upon arrival at the facility, the PPQ Compliance Officer or designee must be notified within 24 hours of the first business day. Notification may be by fax (301-734-5392) or email (redandwhitelabelrequest@aphis.usda.gov). Notification must be by an independent third party (e.g. containment facility director, departmental chair, campus biosafety officer, etc.). The notification must include the permit number, label number, date of arrival, the origin of the soil, and quantity. Failure to notify the PPQ compliance officer or designee may result in loss of hand carry privileges. A PPQ inspector may also visit the facility to confirm the arrival of the package and its contents.

7. Only person(s) whose name(s) is/are listed in the issued permit is/are authorized to hand-carry.

Permit Number P330-11-00188

<p>THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.</p>	<p>DATE</p>
<p> Mark A. Stull</p>	<p>04/28/2011</p>

Designated hand carriers are Thomas Powell (permit holder), Luke L. Powell, and George V.N. Powell.

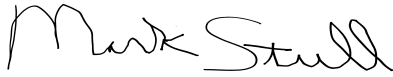
8. The permit holder will receive new PPQ Form 550 Black/White labels for each hand carry event once the required information is submitted. The permit holder cannot use the black and white labels described in the permit conditions that are prepared for bonded carriers. If the PPQ Form 550 Black/White labels for bonded carrier is used while attempting to hand carry, the package will be seized by the Department of Homeland Security and destroyed.

Further guidance on Hand Carry can be obtained from:

http://www.aphis.usda.gov/plant_health/permits/organism/soil/handcarry.shtml

END OF PERMIT CONDITIONS

Permit Number P330-11-00188

THIS PERMIT HAS BEEN APPROVED ELECTRONICALLY BY THE FOLLOWING PPQ HEADQUARTER OFFICIAL VIA EPERMITS.	DATE
 Mark A. Stull	04/28/2011

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)