



Puraflo® Peat Fibre Biofilter

Virginia: Replacing Peat Media

(Note: The life of Puraflo® peat media is estimated to be proximally 15 years when the system is installed and operated properly. Replacing media without correcting potential problems may lead to a shorter lifespan.)

Needed:

- 1 Request Repair Permit, if required by local Health Department.
- 2 Licensed Installer or Service Provider to oversee changing out of peat media.
- 3 Bord na Mona Trainer or Replacement trained professional to oversee installation if needed.
- 4 Composite testing and Paint Filter testing of spent media before removing peat
- 5 Contact Deposal site (landfill) and send paper work and testing results. Each landfill requires different testing and paper work. Call Bord na Mona for requirements.
- 6 Contact Deposal site (landfill) and secure Date, Time, and Payment
- 7 50 lbs of lime to stabilize spent peat from each modules
- 8 Backhoe, skid loader, or other equipment to lift 1500 lbs. of peat / transport modules.
- 9 Equipment to remove peat from Modules by hand or shoveling.
- 10 Two workers with pitchforks & shovels.
- 11 Water Tight container or truck for transporting to landfill
- 11 Two ½” wrenches, shovels and forks, water hose, wet vacuum, power cord.
- 12 1” and 1.25” PVC union or coupling (one per module), saw, primer, & glue.
- 13 Water and power source to reach module area.
- 14 50 lbs. (four 5 gal. buckets full) of clean septic stones or 1 inch gravel per module to fill bottom of module.
- 15 Replacement media from Bord na Móna (2.25 meters³ peat or 1.25 cubic bags per module).

Process:

1. Cut pump off for 24 to 48 hours before replacement.
2. Remove lids.
3. Shovel out all peat media (Must not have standing water). Add lime as spent media is being removed.
4. Clean or Wet vacuum very bottom for finial cleaning.
5. Remove grid if needed. (cut on horizontal piping)
6. Ensure that all drain holes are open & flowing (trench type system will have two open holes on one side & two plugged holes on the other).
7. Run pump to ensure that inlet piping is open.
8. Place 200 lbs. + of 1 inch gravel over outlet holes and around module drain channels.
9. Place peat media in modules up to 2nd step (1/2 bag) and walk on it to pack it.
10. Place peat media to grid level (1/2 bag) and walk on it to pack it.
11. Replace grid, (slide under center bar if needed, bar and spring over back bar) glue together with 1 ¼ inch union or coupling, ensuring that the grid is strapped to cross bars with stainless steel straps and level (do not cover grid until all grids are in and checked)
12. Run pump and insure all grids are receiving same amount of water and evenly dispersing water over media (pushes or pulls bars to level grid).
13. Place peat media to 6 inches above grid (1/4 bag) and level out. DO NOT step on grid.
14. Replace lids (bolt one side down at a time). Use crowbar if needed to fix lid.
15. Perform draw down test & verify that the control panel is set properly.

Paper work and testing required at Loudoun County landfills.

- 1 Signed agreement with Loudoun County landfill
- 2 Completed Credit Application with Loudoun County landfill
- 3 Certification letter on Company Letter Head that spent media is Lime Stabilized.
- 4 Testing.
 - a. Paint Filter test. (see page 3 Paint Filter paper work)

Testing:

- Step 1: Fork and allow modules to drain.
- Step 2: Take a representative Pint size sample of spent media from each module.
- Step 3: Mix.
- Step 4: Package one quart zip lock bags or equal. Double bag each.
- Step 5: Cool on Blue Freezer Ice packs
- Step 6: Fill out paper work (see instruction).

Send (overnight with Ice Pack) one quart bag with completed Paint Filter Testing paper work to:

Mail/ UPS/ FedEx: Environmental Chemists, Inc.
Mr. Jay Baker
6602 Windmill Way
Wilmington, NC 28405
Phone: 910-392-0223
Fax: 910-392-4424

- 5 Contact each lab and arrange for payment
- 6 Comply with Loudoun County Requirements (page 5)
- 7 Completed Spent Residential Peat Filter Media Disposal Request Form (pages 5 & 6)

Paint Filter Test: EPA 9095A

DATE: _____

Sampled by: _____

Site ID: _____

Site Location: _____

Service Provider Information:

Company Name: _____

Mailing Address: _____

Phone: _____

Mail Sample to:

Environmental Chemists, Inc.
Mr. Jay Baker
6602 Windmill Way
Wilmington, NC 28405
Phone: 910-392-0223
Fax: 910-392-4424

Call: 910-392-0223 for Payment options.



loudoun county solid waste management facility

Spent Residential Peat Filter Media Disposal Requirements

March 1, 2008

This document outlines the requirements for the disposal of spent residential peat filter media (SRPFM) at the Loudoun County Solid Waste Management Facility (LCSWMF), which is the name of the County's landfill. These requirements are based on the facility's permit and Virginia Department of Health (VDH) Policy GMP#143, issued by Donald Alexander, Division of Onsite Soil and Water Services.

The LCSWMF will only accept SRPFM generated from residences located within the County of Loudoun, Virginia, and only on a pre-approved basis. SRPFM brought to the LCSWMF for disposal must meet the following requirements:

- The SRPFM must be from a Loudoun County residence and may not have left the County.
- The SRPFM must be pre-treated by thoroughly mixing with burnt quick lime (CaO) at a minimum rate of 1 pound of lime per 1.0 cubic feet of SRPFM.
- The treated SRPFM must have a pH of 10 or higher.
- The treated SRPFM must be dewatered, contain no free liquids, and treated samples must be able to pass the paint filter test standard for free liquids (attached).
- The manufacturer of the peat media must have submitted biological and chemical test results to the VDH and have received approval for disposal of the spent peat media in Virginia permitted landfills.
- The SRPFM must be non-hazardous according to the current State of Virginia regulations governing the management of hazardous waste in the Commonwealth.

All requests for disposal of SRPFM at the LCSWMF must be made by a sewage system installer or pump and haul contractor licensed by the Loudoun County Health Department (LCHD), and that contractor must have obtained a site-specific permit from the LCHD to remove the SRPFM. A current list of licensed contractors may be obtained from the LCHD, Division of Environmental Health at 703-777-0234. The licensed contractor must submit a completed *Spent Residential Peat Filter Media Disposal Request Form* (attached) either by mail to the Loudoun County Office of Solid Waste Management, 8065 Trailview Blvd, Leesburg, Virginia, 20175 or by facsimile to 703-771-5523. The completed form will be reviewed by the Manager of Landfill Operations, who will notify the contractor if the request for disposal has been approved or denied. After receiving notification of approval, the contractor must pre-schedule the disposal date(s) with the landfill manager. SRPFM brought to the landfill without pre-approval and pre-scheduling will not be accepted. All loads of SRPFM brought to the landfill will be inspected at the time of delivery, and SRPFM that does not meet the above requirements will be rejected by the landfill. Vehicles that are not capable of having their load inspected, such as a closed tanker or vacuum truck, will not be allowed. The current landfill fee for municipal solid waste will apply and must be paid by cash or check at the time of disposal.

For further information, please contact the Loudoun County Office of Solid Waste Management at 703-777-0187 during regular business hours.



Loudoun county solid waste management facility

**SPENT RESIDENTIAL PEAT FILTER MEDIA (SRPFM)
DISPOSAL REQUEST FORM**

This form must be completed in full by a pump and haul contractor licensed by the Loudoun County Health Department.

COMPANY NAME _____

COMPANY ADDRESS _____

LOHD LICENSE NO. _____ LOHD PERMIT NO. _____

CONTACT PERSON _____

TELEPHONE NO. _____ FAX NO. _____

ADDRESS OF RESIDENCE GENERATING THE SRPFM _____

NAME OF HOMEOWNER _____ TELEPHONE NO. _____

ESTIMATED CUBIC FEET OF SRPFM TO BE DISPOSED _____

I do hereby certify that the following statements about the SRPFM for which I am requesting permission for disposal are true and accurate to the best of my knowledge:

1. The SRPFM is from a Loudoun County residence and has not left Loudoun County.
2. The SRPFM has been treated by thoroughly mixing with burnt quick lime (CaO) at a minimum rate of 1 pound of lime per 1.0 cubic feet of SRPFM.
3. The treated SRPFM has a pH of 10 or higher.
4. The treated SRPFM is dewatered, contains no free liquids, and treated samples will pass the paint filter test standard for free liquids (EPA SW-846, Method 9095 - attached).
5. The manufacturer of the peat media has submitted biological and chemical test results to the Virginia Department of Health and has received approval for disposal of the spent peat media in Virginia permitted landfills.
6. The SRPFM is non-hazardous according to the current State of Virginia regulations governing the management of hazardous waste in the Commonwealth.

Signature of Licensed Contractor _____

Date _____

Printed Name and Title _____

DO NOT WRITE BELOW THIS LINE

LCSWAP Manager's Approval:

Initials _____ Approval Date _____ Disposal Date(s) _____