



**FACILITY COMPLIANCE INSPECTION REPORT**  
**Division of Waste Management**  
**Solid Waste Section**

<b>UNIT TYPE:</b>											
Lined MSWLF		LCID		YW		Transfer		Compost		SLAS	<b>COUNTY: Durham</b> <b>PERMIT NO.: Vermiculture Demonstration</b> <b>FILE TYPE: COMPLIANCE</b>
Closed MSWLF		HHW		White goods		Incin		T&P		FIRM	
CDLF		Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO	<input checked="" type="checkbox"/>	SDTF	

**Date of Inspection:** March 6, 2014

**Date of Last Inspection:** NA

**FACILITY NAME AND ADDRESS:**

NewSoil Vermiculture LLC  
 314 Latta Road  
 Durham, NC 27712

**GPS COORDINATES:** N: 36.07775 E: -78.92011

**FACILITY CONTACT NAME AND PHONE NUMBER:**

Garry Lipscomb, Co-owner  
 c. 202-374-0403

Bill Corey, Co-owner  
 c. 857-204-9839

[newsoil@nc.rr.com](mailto:newsoil@nc.rr.com)  
 w. 919-237-2219

**FACILITY CONTACT ADDRESS:**

NewSoil Vermiculture LLC  
 314 Latta Road  
 Durham, NC 27712

**PARTICIPANTS**

John Patrone, Environmental Senior Specialist - Solid Waste Section (SWS)  
 Tony Gallagher, Supervisor - Composting & Land Application Branch  
 Liz Patterson, Environmental Technician  
 Garry Lipscomb, Co-owner – NewSoil Vermiculture LLC

**STATUS OF PERMIT:**

Demonstration (pending issuance)

**PURPOSE OF SITE VISIT:**

Inspection

**STATUS OF PAST NOTED VIOLATIONS**

None

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**OBSERVED VIOLATIONS**

None

The item(s) listed above were observed by Section staff and require action on behalf of the facility in order to come into or maintain compliance with the Statutes, Rules, and/or other regulatory requirements applicable to this facility. Be advised that pursuant to N.C.G.S. 130A-22, an administrative penalty of up to \$15,000 per day may be assessed for each violation of the Solid Waste Laws, Regulations, Conditions of a Permit, or Order under Article 9 of Chapter 130A of the N.C. General Statutes. Further, the facility and/or all responsible parties may be subject to enforcement actions including penalties, injunction from operation of a solid waste management facility or a solid waste collection service and any such further relief as may be necessary to achieve compliance with the North Carolina Solid Waste Management Act and Rules.

**ADDITIONAL COMMENTS**

On March 6, 2014, John Patrone, Tony Gallagher, and Liz Patterson met with Garry Lipscomb to conduct an inspection of NewSoil Vermiculture LLC demonstration on Latta Road in Durham, Durham County.

1. The demonstration is a vermiculture operation conducted in the basement of a residence.
2. The demonstration is considered a small, type 3 compost operation. And will likely be active for 12 months from the approval date.
3. The location of the demonstration operation, in the basement, may be considered a confined space (~ 14' x 14'). Access is via a crawlspace door (w/padlock) on the right side of the house.
4. There are seven 50-gallon plastic drums (Nos.: 00 through 06) that have been modified.
5. Each barrel is 22 inches wide and contains a lid. The bottom of each barrel sits in a 25 inch wide pan with 3 inch lip to contain material spillage/leachate.
6. The barrels are ~ 2 feet up off the floor. Tarp covered concrete block and wood deck support the barrels.
7. The demonstration operation uses red wigglers (*Eisenia foetida*) to produce vermicompost.
8. Food scraps, dried leaves, and worms sit atop a metal grate inserted within each barrel.
9. Each barrel is divided into thirds. The upper 1/3 is used for feedstocks. The middle 1/3 is used for active composting, and the lower 1/3 is used to collect vermicompost that falls through the grate. An access hatch has been cut into the lower 1/3 of each barrel.
10. The feed rate will vary but is currently ~ 2 lbs/barrel/week of food scraps and dried leaves each.
11. Mr. Lipscomb stated that minimal leachate is obtained from vermiculture and that it will be reintroduced into the compost process and/or will be placed in 5-gallon buckets (w/lid) stored within the floor space of the demonstration operation.
12. Food scraps are obtained from the residence and stored in a small container (in the kitchen) until needed.
13. Leaves are obtained from the property stored in a small pile outside.
14. Vermicompost is currently stored in two large plastic buckets. Ensure vermicompost stockpiled for public distribution is stored such that it remains free of contaminants.
15. Mr. Lipscomb stated that the floor, of the demonstration operation, has a drain that is piped into a septic tank located on the property. The drain and septic tank location were observed during the inspection.
16. Stored absorbent material was observed within the demonstration operation area. If used, Mr. Lipscomb stated it will become feedstock material.
17. The demonstration operation should keep records of the type and amount of materials used as feedstock.
18. The demonstration operation is required to obtain test results for heavy metals (cadmium, copper, lead, nickel, zinc, and molybdenum), man-made inerts, and fecal coliform. Mr. Lipscomb stated that salmonella will also be tested.
19. When pathogen analysis is conducted, if fecal coliform and salmonella are tested, both select pathogens must pass/be within respective required limit.
20. If a select pathogen fails/is not within respective required limit a second pathogen analysis must be conducted within seven calendar days. Only compost that passes/is within respective required limit shall be distributed to the public.
21. The facility shall maintain records of additional pathogen analysis conducted for test result verification and a written log tracking the retested product.
22. It is suggested that analysis also include pH, C:N, moisture, and bulk density.

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- 23. A label or information sheet shall be provided to the public to distribute vermicompost. Instruction shall include: compost grade, safe uses, application rates, and use restrictions.
- 24. Mr. Lipscomb stated that NewSoil Vermiculture LLC plans to sell vermicompost tea and vermicompost tea bags.

Please contact me if you have any questions or concerns regarding this inspection report.



Phone: 336-771-5095 Fax: 336-771-4631

John Patrone  
Environmental Senior Specialist  
*Regional Representative*

Sent on: <u>March 13, 2014</u>	<input checked="" type="checkbox"/>	Email	<input type="checkbox"/>	Hand delivery	<input type="checkbox"/>	US Mail	<input type="checkbox"/>	Certified No. [ ]
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Electronic Copies: Jason Watkins, Western District Supervisor  
Sarah Rice, Compliance Officer  
Tony Gallagher, Supervisor - Composting & Land Application Branch  
Liz Patterson, Environmental Technician

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Digital pictures taken on March 6, 2014  
by John Patrone, DWM-SWS

Vermiculture demonstration operation in basement



Demonstration operation supplies



Vermicompost at bottom of 55-gallon drum



Vermicompost

