



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

| <b>UNIT TYPE:</b> |  |                       |  |               |  |                     |  |         |                                     |      |  |
|-------------------|--|-----------------------|--|---------------|--|---------------------|--|---------|-------------------------------------|------|--|
| Lined MSWLF       |  | LCID                  |  | YW            |  | Transfer            |  | Compost | <input checked="" type="checkbox"/> | SLAS | <b>COUNTY: Chatham</b><br><b>PERMIT NO.: 19-06</b><br><b>FILE TYPE: COMPLIANCE</b> |
| Closed MSWLF      |  | HHW                   |  | White goods   |  | Incin               |  | T&P     |                                     | FIRM |  |
| CDLF              |  | Tire T&P / Collection |  | Tire Monofill |  | Industrial Landfill |  | DEMO    |                                     | SDTF |  |

**Date of Site Inspection:** April 6, 2015

**Date of Last Inspection:** January 26, 2015

**FACILITY NAME AND ADDRESS:**

M<sup>c</sup>Gill Environmental Systems of NC, Inc. – Merry Oaks Facility Large, Type 4 SWC Facility  
 634 Christian Chapel Church Road  
 New Hill, NC 27562

**GPS COORDINATES:** N: 35.63591 E: -79.00802

**FACILITY CONTACT NAME AND PHONE NUMBER:**

Steve Cockman, Operations Manager  
 w. 919-362-1161  
 c. 919-542-8903  
 f. 919-362-1141  
[scockman@mcgillcompost.com](mailto:scockman@mcgillcompost.com)

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Steve Cockman, Operations Manager  
 M<sup>c</sup>Gill Environmental Systems of NC, Inc. – Merry Oaks Facility  
 634 Christian Chapel Church Road  
 New Hill, NC 27562

**PARTICIPANTS**

John Patrone, Environmental Senior Specialist - Solid Waste Section (SWS)  
 Steve Cockman, Operations Manager - M<sup>c</sup>Gill Environmental Systems of NC, Inc. – Merry Oaks Facility  
 David Mueller, Controller - M<sup>c</sup>Gill Environmental Systems of NC, Inc. – Merry Oaks Facility

**STATUS OF PERMIT:**

Permit To Operate (PTO) issued February 24, 2014  
 PTO expiration date December 8, 2015

**PURPOSE OF SITE VISIT:**

Odor Complaint Investigation

**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 also 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 April 6, 2015, John Patrone met with Steve Cockman and David Mueller to conduct an odor complaint investigation of the M<sup>c</sup>Gill Environmental Systems of NC, Inc. – Merry Oaks Facility Large, Type 4 SWC Facility on Christian Chapel Church Road in New Hill, Chatham County.

1. The facility is a Large, Type 4 Solid Waste Compost (SWC) Facility. It produces compost from industrial and municipal residuals and sludges, grease trap waste, and food and agribusiness wastes and from a variety of bulking agents: ash, yard waste, wood mulch, tobacco waste, and sawdust.
2. The facility is in operation Monday through Friday 8:00 am to 5:00 pm and Saturday 8:00 am to noon.
3. Compost is sold in bulk to landscape supply businesses, grading companies, and to the agribusiness community.
4. The compost process is conducted within the facility building.
5. Feedstocks are off-loaded into a mixing and bulking pit.
6. The facility building is ~ 112,500 ft<sup>2</sup>.
7. High carbon nitrogen ratio bulking material, stored outside, is brought into the mixing and bulking pit through a doorway and mixed with feedstocks.
8. The material is placed in positive aeration bays to meet process to further reduce pathogens (PFRP).
9. Product is then screened by a dedicated screener and placed in a triple-wide positive aeration bay to meet vector attraction reduction (VAR).
10. Material is considered cured after meeting VAR.
11. Cured product is screened by a dedicated screener.
12. Screened compost is considered finished product.
13. The mixing and bulking pit, PFRP bays, and VAR area exhaust fans route to a biofilter located outside, adjacent to the building.
14. The facility has installed six additional positive aeration fans (the seventh is on site but not yet installed) to assist with regulating material moisture in the product storage area (located w/in the building) that is open to the weather/area not under roof.
15. On April 1, 2015, the SWS received an odor complaint. The odor is believed to have originated from the facility.
16. On April 2, 2015, Mr. Patrone contacted the facility regarding the odor complaint.
17. Mr. Cockman stated that he was out of town on April 1<sup>st</sup> but did speak with his employees regarding facility operations and logged the complaint.
18. Mr. Cockman stated that he drove ~ 1 mile radius around the facility.
19. Mr. Cockman stated that on April 1<sup>st</sup> all equipment is believed to have been operating properly.
20. On April 6, 2015, Mr. Patrone conducted a site visit to the facility in response to the odor complaint.
21. On April 1<sup>st</sup> the facility received four potential loads of odorous material (biosolids from a wastewater treatment plant).
22. The trucks containing odorous material were at the facility at: 7:30 am, ~ 8:00 am, ~ 9:00 am, and at 11 am.
23. Mr. Cockman stated that the above ground storage tank (AST) containing sludge was not in use.
24. The operating procedure for incoming sludge is as follows:
  - a. All incoming sludge deposited on the pit floor must be mixed with amendment and placed into a composting bay for curing.

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- b. If a particularly wet load of sludge arrives, quickly move a pile of dry bulking agent in front of the pit to keep the wet material from spreading-out over the floor.
  - c. After a truck unloads, the driver uses the hose to wash off the truck pad, making sure all water enters the building through the door. Utility operator will also monitor and clean pad throughout the day, as needed.
25. The off-load pit bay door(s) are required to be closed by the truck driver. A sign is posted on each bay door.
  26. As discussed with Mr. Cockman, if the facility is the source of the odor, perhaps the three trucks off-loading odorous material in short succession presented a situation that made it difficult to incorporate bulking agent in a timely manner. Alternatively, the off-load pit bay door(s) may have been left open longer than intended.
  27. Mr. Cockman stated that he checked the weather condition for April 1<sup>st</sup> and noted it was sunny, mid-sixties, with occasional wind gusts.
  28. Currently, it has not been ascertained that the facility is the source of the odor. However, it is probable due to the types of materials accepted.
  29. Mr. Patrone recommends that the procedure for incoming sludge be reviewed with facility staff and that drivers be reminded to close the off-load pit bay door(s). If necessary, an employee could be assigned the task, when odorous trucks are received, to ensure the truck pad is quickly washed-off and the bay doors closed. Perhaps a mechanical system to close the bay doors could be installed.
  30. It is suggested that trucks containing odorous material off-load sporadically throughout the day to ensure sufficient time is allotted to adequately mix sludge, etc. with bulking agent.
  31. During the inspection there was no odor detected at the facility boundary.
  32. The facility has conducted maintenance on the stormwater basin inlet of pond No. 1. The area has been graded and the check dam reconstructed/silt removed. Mr. Cockman stated that stormwater no longer ponds in the area.
  33. The facility has constructed the roof over the curing area and compost screener.
  34. The PTO expiration date is December 8, 2015.
  35. The PTO renewal application shall be submitted to the SWS by August 8, 2015.

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

Phone: 336-776-9673

John Patrone, Environmental Senior Specialist  
 Division of Waste Management, NCDENR

|                               |   |       |  |               |  |         |                   |
|-------------------------------|---|-------|--|---------------|--|---------|-------------------|
| Sent on: <u>April 8, 2015</u> | X | Email |  | Hand delivery |  | US Mail | Certified No. [ ] |
|-------------------------------|---|-------|--|---------------|--|---------|-------------------|

Electronic Copies: Jason Watkins, Field Operations Branch Head - SWS  
 Deb Aja, Western District Supervisor – SWS  
 Dennis Shackelford, Eastern District Supervisor - SWS  
 Sarah Rice, Compliance Officer - SWS  
 Tony Gallagher, Composting & Land Application Branch Head - SWS  
 Donna Wilson, Permitting Engineer - SWS  
 Liz Patterson, Environmental Technician - SWS  
 M. Noel Lyons, President - M<sup>c</sup>Gill Environmental Systems of NC, Inc.  
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Digital pictures taken April 6, 2015  
by John Patrone, DWM – SWS

Off-load pit bay doors and truck pad



Stormwater basin inlet pond No. 1 check dam



Stormwater basin inlet pond No. 1 adjacent area graded



New roof over the curing area and compost screener.

