

FACILITY COMPLIANCE INSPECTION REPORT
Department of Environmental Quality
Division of Waste Management - Solid Waste Section

UNIT TYPE:											
Lined MSWLF		LCID		YW		Transfer		Compost		SLAS	COUNTY: Guilford PERMIT NO.: 41-03 FILE TYPE: COMPLIANCE
Closed MSWLF	X	HHW		White goods		Incin		T&P		FIRM	
CDLF	X	Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO		SDTF	

Date of Site Inspection: November 16, 2015

Date of Last Inspection: May 28, 2014

FACILITY NAME AND ADDRESS:

City of Greensboro C&D Landfill over Closed MSW Landfill
 2503 White Street
 Greensboro, NC 27405

GPS COORDINATES: N: 36.11628 E: -79.71717

FACILITY CONTACT NAME AND PHONE NUMBER:

Jason Jernigan, Solid Waste Disposal Manager
 w. 336-412-3959
 c. 336-587-3445
jason.jernigan@greensboro-nc.gov

FACILITY CONTACT ADDRESS:

City of Greensboro Field Operations Department
 Jason Jernigan, Solid Waste Disposal Manager
 2503 White Street
 Greensboro, NC 27405

PARTICIPANTS

John Patrone, Environmental Senior Specialist - Solid Waste Section (SWS)
 Jason Jernigan, Solid Waste Disposal Manager - City of Greensboro Field Operations Department
 Lewis S. Walker, Jr. Landfill Compliance Supervisor – City of Greensboro Field Operations Department

STATUS OF PERMIT:

Permit To Operate (PTO) issued March 30, 2012
 PTO expiration date March 30, 2017

PURPOSE OF SITE VISIT:

Comprehensive Inspection

STATUS OF PAST NOTED VIOLATIONS

None

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.

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ADDITIONAL COMMENTS

On November 16, 2015, John Patrone met with Jason Jernigan and Lewis Walker to conduct a comprehensive inspection of the City of Greensboro C&D Landfill over Closed MSW Landfill on White Street in Greensboro, Guilford County.

1. The construction and demolition debris (C&D) landfill atop a closed municipal solid waste (MSW) landfill is located on property owned by the City of Greensboro. The property also contains a MSW landfill (41-12), a large type 1 solid waste compost (SWC) operation (41-03 SWC), and a temporary disaster debris staging site (TDDSS, DS41-002).
2. The C&D landfill over the closed MSW landfill is known as Phase II.
3. The Phase II landfill is adjacent to the closed MSW landfill known as Phase I.
4. The Phase I closed MSW landfill is inspected with the Phase II C&D landfill over closed MSW landfill.
5. The Phase II landfill footprint is 135 acres. To date ~ 104 acres have been closed.
6. The area currently available for the C&D landfill operation in Phase II is ~ 31 acres.
7. Approximately four acres of the available 31 acres is covered with soil and contains vegetative ground cover.
8. The facility is open Monday through Friday 7:50 am to 4:50 pm and Saturday 7:00 am to 1:00 pm.
9. The facility site plan, permit, and operations plan were discussed.
10. The facility is permitted to receive solid waste from Guilford County.
11. The facility is permitted to receive C&D, inert debris, land clearing debris (LCD), and (used) asphalt.
12. The facility shall not accept yard trash for disposal.
13. The facility maintains daily and monthly records of the amount of solid waste received. Throughput records were verified for July 2014 through October 2015. The facility received 48,608.94 tons.
14. The facility annual report (FAR) dated July 30, 2015 was received by the SWS. Facility throughput for July 2014 through June 2015 is 36,613.37 tons.
15. The facility has two scales. Each has an outside weight display unit.
16. A vehicle scale test was conducted by the North Carolina Department of Agriculture & Consumer Services on July 6, 2015. A finding of no error is noted.
17. A vehicle scale test was conducted by Carlton Scale on September 23, 2015. A finding of no error is noted. Mr. Jernigan stated that the facility has Carlton Scale test the scales quarterly.
18. The facility has ~ 15 employees trained as certified operators. The following supervisory employees are certified operators:
 - a. Jason Jernigan, Certified Landfill Manager, No. 740578, exp. 02/11/16
 - b. Lewis S. Walker, Jr., Certified Landfill Manager, No. 976784, exp. 06/05/18
 - c. Timothy Williams, Certified Landfill Manager, No. 54260, exp. 06/26/18
19. The facility conducts one waste screening a day. Waste screening records were verified for January 2, 2015 through November 16, 2015.
20. The facility does not accept scrap tires and white goods.
21. Groundwater and methane monitoring wells observed were accessible.
22. The Phase II landfill has 12 groundwater monitoring wells: II-1, II-2, II-3, II-4A, II-5, II-6, II-7, II-7B, II-8, II-12, MW-13.
23. The facility has five surface water locations: SW-1, SW-2, SW-3, SW-4, and SW-5.
24. The Phase I landfill has five groundwater monitoring wells: I-1, I-2, I-3, I-4, and MW-13.
25. The facility maintains semiannual groundwater and surface water monitoring records submitted by S&ME, Inc., analyzed by Environmental Conservation Laboratories, Inc. (ENCO). Records for groundwater and surface water monitoring for Phase II conducted on April 21-25, 2014, October 1-7, 2014, and April 6-15, 2015 were verified. An exceedance is noted for each monitoring event. Records for groundwater and surface water monitoring for Phase I conducted on October 1-2, 2014 and April 7-15, 2015 were verified. An exceedance is noted for each monitoring event.
26. The Phase II landfill is required to conduct additional monitoring per its corrective action plan (CAP).

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27. The CAP requires that two poplar tree phytoremediation areas (north and south buffer) are maintained and inspected monthly, monitored natural attenuation (MNA) testing parameters are conducted semiannually, BIOCHLOR modeling is conducted on a semiannual basis, and a consistent landfill cap contour maintained.
28. The facility maintains phytoremediation inspection records conducted by S&ME, Inc. Ensure inspections are conducted monthly. Facility employees routinely conduct maintenance at the landfill and traverse the landfill cap. A landfill cap inspection and repair log will be maintained. The MNA testing and BIOCHLOR modeling is conducted by S&ME, Inc. and submitted to the SWS with the groundwater and surface water monitoring report.
29. The Phase II and Phase I landfills have eight landfill gas monitoring wells: MGMW-1 through MGMW-8. Methane is also monitored at the compost shed, maintenance shop, Phase II blower building, compliance building, and several surface point locations.
30. The facility maintains quarterly methane monitoring records. Methane monitoring is conducted by facility personnel. Records were verified for June 30, 2014 (2nd quarter), September 29, 2014 (3rd quarter), December 30, 2014 (4th quarter), March 30, 2015 (1st quarter), June 29, 2015 (2nd quarter), and September 30, 2015 (3rd quarter). No exceedance of the methane lower explosive limit (LEL) is noted. Mr. Walker stated that the 4th quarter 2015 methane monitoring event will be conducted. It is suggested that methane monitoring is conducted early within a quarter to ensure monitoring occurs within the required designated quarter of the year.
31. It is suggested that the facility also monitor for hydrogen sulfide (H₂S). Monitoring for H₂S may be required when the facility permit is renewed or modified.
32. The facility has a landfill gas collection system. It is tied into the landfill gas collection system associated with the City of Greensboro MSW landfill, Phase III (41-12).
33. The facility has a stormwater National Pollutant Discharge Elimination System (NPDES) permit, General Permit No. NCG120000, Certificate Of Coverage No. NCG120013. The NPDES permit expires October 31, 2017.
34. The working face was small and compact.
35. The facility shall cover solid waste with six-inches of soil when the waste disposal area exceeds one-half acre and at least once weekly.
36. The facility maintains a weekly soil cover log. Records were verified for June 4, 2014 through December 3, 2014 and January 6, 2015 through November 12, 2015.
37. When soil cover is applied ensure it completely covers the solid waste.
38. The closed areas of the landfill cap appeared maintained.
39. Mr. Jernigan stated that the facility does not accept separated loads of asbestos.
40. Erosion and sedimentation controls appeared to be in good order.
41. The facility has installed edge of waste markers.
42. During the inspection odor was not detected.
43. The landfill cap is mowed four times a year.
44. The facility financial assurance is in the process of being updated.
45. Windblown material was not observed.
46. The facility has a water truck available for dust control.
47. The facility has proper signage.
48. Access roads are of all-weather construction.
49. The facility is secured by a locked gate.
50. The PTO expiration date is March 30, 2017.
51. The PTO renewal application and the corrective action evaluation report (CAER) shall be submitted to the SWS by September 30, 2016.

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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, NCDEQ

Sent on: <u>November 20, 2015</u>	X	Email		Hand delivery		US Mail		Certified No. []
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Electronic Copies: Deb Aja, Western District Supervisor - SWS
 Jessica Montie, Compliance Officer – SWS
 Jaclynne Drummond, Compliance Hydrogeologist – SWS
 Pat Backus, Environmental Engineer - SWS
 Lewis S. Walker, Jr. Landfill Compliance Supervisor – City of Greensboro Field Operations
 Department (c. 336-254-8096 lewis.walker@greensboro-nc.gov)
 Tim Williams, Landfill Operations Supervisor – City of Greensboro Field Operations Department
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Digital pictures taken November 16, 2015
 by John Patrone, DWM-SWS

View towards Phase II landfill



C&D landfill working face



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Closed 8 acre area



Closed ~ 26 acre area – partial view



View towards Phase I landfill - background



Phase I landfill cap – representative

