



FACILITY COMPLIANCE INSPECTION REPORT
Division of Waste Management
Solid Waste Section

UNIT TYPE:											
Lined MSWLF		LCID		YW		Transfer		Compost		SLAS	COUNTY: Durham PERMIT NO.: 32-01 FILE TYPE: COMPLIANCE
Closed MSWLF	X	HHW		White goods		Incineration		T&P		FIRM	
CDLF		Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO		SDTF	

Date of Site Visit: February 14, 2013 **Date of Last Inspection:** February 22, 2012

FACILITY NAME AND ADDRESS:

City of Durham Closed MSW Landfill
 2115 East Club Boulevard
 Durham, NC 27704

GPS COORDINATES: N: 36.03265 E: -78.85495

FACILITY CONTACT NAME AND PHONE NUMBER:

Simon Lobdell, Civil Engineer III– City of Durham Dept. of Water Management, Utility Engineering Division

w. 919-560-4381 x35201

c. 919-200-8870

f. 919-560-4479

simon.lobdell@durhamnc.gov

FACILITY CONTACT ADDRESS:

Simon Lobdell, Civil Engineer III
 City of Durham Dept. of Water Management
 Utility Engineering Division
 1600 Mist Lake Drive
 Durham, NC 27704

PARTICIPANTS

John Patrone, Environmental Senior Specialist - Solid Waste Section (SWS)

Simon Lobdell, Civil Engineer III– City of Durham Dept. of Water Management, Utility Engineering Division

Thomas Young, Maintenance Supervisor Grounds - City of Durham Dept. of Water Management, Plant Maintenance Division

STATUS OF PERMIT:

Closed

PURPOSE OF SITE VISIT:

Post Closure Site Visit

STATUS OF PAST NOTED VIOLATIONS:

None

FACILITY COMPLIANCE INSPECTION REPORT
Division of Waste Management
Solid Waste Section

Page 2 of 4

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

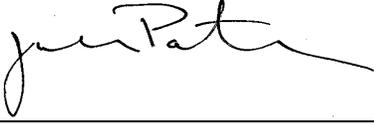
On February 14, 2013, John Patrone met with Simon Lobdell and Thomas Young to conduct a post closure site visit of the City of Durham Closed MSW Landfill located on East Club Boulevard in Durham, Durham County.

1. The facility ceased operation/acceptance of municipal solid waste (MSW) on December 31, 1997
2. The closed landfill footprint is ~ 85 acres.
3. The facility has a landfill gas extraction/gas to energy system maintained and operated by Methane Power, Inc.
4. The facility had a landfill gas condensate release outside the landfill footprint into an area routinely saturated with groundwater on March 2, 2012 caused by a force main break. A bypass line was installed the same day and the SWS (John Patrone and Ervin Lane) informed on March 7, 2012. Ervin Lane, Compliance Hydrogeologist, corresponded with the facility to ensure appropriate evaluation of the condensate release site and response was conducted.
5. The facility had a landfill gas condensate release outside the landfill footprint into a stormwater pond that may have gone into a nearby stream on February 8, 2013 due to a bypass line from a force main that was left open, allowing a condensate trap to pump onto the landfill cap. Ervin Lane, Compliance Hydrogeologist, is corresponding with the facility to ensure appropriate evaluation of the condensate release site and response is conducted.
6. Large woody vegetation has been removed from the landfill cap.
7. The facility has installed edge of waste markers. White plastic pipe with metal stake insert have been installed every 50 feet.
8. Mr. Lobdell stated that monitoring wells with faded labels have been replaced.
9. The facility installed a stormwater drainpipe on the east side of the landfill that routes stormwater to a drainage swale. The stormwater drainpipe was installed to remediate water from accumulating in the area.
10. Mr. Lobdell stated that erosion rills in the drainage swale will be repaired.
11. Stormwater ponding was observed on the west side of the landfill cap. When the facility was in operation it had filled the area with vegetative waste. Mr. Lobdell stated that soil has been placed atop the area to prevent ponding water and will be reapplied.
12. The facility recently repaired a collapsed stormwater drainpipe on the west side of the landfill that, it was discovered, was too close to waste. Prior to the repair methane odor was detected at the surface/above the stormwater drainpipe area. The new drainpipe was installed above a layer of cover material (applied atop the waste) and landfill cap repaired accordingly.
13. Mr. Lobdell stated that the facility is in the process of repairing a collapsed stormwater drainpipe on the west side of the landfill. The facility will assess the adjacent area of landfill cap that tends to pond water (aforementioned No. 13) and evaluate if drop box surface drains should be installed. Mr. Lobdell was asked to contact SWS Ed Mussler, Permitting Branch Head, and Ervin Lane, Compliance Hydrogeologist, regarding the purposed remediation plan.
14. The landfill cap is covered with native grasses.
15. There was no indication of erosion or runoff.

FACILITY COMPLIANCE INSPECTION REPORT
Division of Waste Management
Solid Waste Section

Page 3 of 4

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>February 21, 2013</u>	<input checked="" type="checkbox"/>	Email	<input type="checkbox"/>	Hand delivery	<input type="checkbox"/>	US Mail	<input type="checkbox"/>	Certified No. []
-----------------------------------	-------------------------------------	-------	--------------------------	---------------	--------------------------	---------	--------------------------	-------------------

Copies:

- Jason Watkins, Western District Supervisor
- Jessica Montie, Compliance Officer
- Ed Mussler, Permitting Branch Head
- Ervin Lane, Compliance Hydrogeologist
- Don Greeley, Director – City of Durham Dept. of Water Management
(don.greeley@durhamnc.gov)
- Jerry Morrone, Engineering Supervisor - City of Durham Dept. of Water Management, Utility Engineering & System Rehabilitation (jerry.morrone@durhamnc.gov)
- Chris Marriott, Waste Disposal Manager - City of Durham Solid Waste Management Dept.
(chris.marriott@durhamnc.gov)

FACILITY COMPLIANCE INSPECTION REPORT
Division of Waste Management
Solid Waste Section

Page 4 of 4

Digital pictures taken February 14, 2013
by John Patrone, DWM-SWS

Edge of waste markers – white plastic pipe



Stormwater drainpipe repair area – west side of landfill



Stormwater drainpipe installed at low area (to drain ponding water) – east side of landfill



Landfill gas condensate release area, February 8, 2013

