



FACILITY COMPLIANCE INSPECTION REPORT
Division of Waste Management
Solid Waste Section

UNIT TYPE:

Lined MSWLF		LCID		YW		Transfer		Compost		SLAS		COUNTY: Harnett PERMIT NO.: 4302-CDLF-1998 FILE TYPE: COMPLIANCE
Closed MSWLF		HHW		White goods		Incineration		T&P		FIRM		
CDLF	<input checked="" type="checkbox"/>	Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO		SDTF		

Date of Site Inspection: October 31, 2013

Date of Last Inspection: September 31, 2013

FACILITY NAME AND ADDRESS:

Harnett/Dunn-Erwin C&D Landfill
 449 Daniels Road
 Dunn, NC 28334

GPS COORDINATES: N: 35.366551 E: -78.648273

FACILITY CONTACT NAME AND PHONE NUMBER:

Mr. Randy Smith
 (910)-897-3222

FACILITY CONTACT ADDRESS:

Amanda L. Bader, PE, LEED AP County Engineer
 Harnett County Engineering and Facilities Management
 P.O. Box 2773
 Lillington, NC 27546
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PARTICIPANTS:

Dennis E. Shackelford, NCDENR
 Elizabeth Werner, DWM
 Sarah Rice, DWM
 Ming-Tai Chao, DWM
 Joseph Jeffries, Deputy County Manager
 Randy Smith – Harnett County
 Pieter Scheer, P.E. – S+G Engineers
 Joan Smyth, P.G. – S+G Engineers

STATUS OF PERMIT:

PTO expired July 1, 2008
 Permit extension request June 26, 2008
 Permit under review. Modification submitted July 26, 2013

S+G and the County are working on the responses to the DWM comments. They agree to submit a new permit amendment application covering both landfills and update the progresses of the corrective action of the groundwater underneath the closed MSWLF (Phase III) in compliance with Rule .0547(4).

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PURPOSE OF SITE VISIT:

Scheduled Meeting

STATUS OF PAST NOTED VIOLATIONS:

None

OBSERVED VIOLATIONS

1. 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

1. The purpose of the meeting was to discuss the needed permit information and to discuss French drain lines that were installed in waste that drained into an approved sump.
2. Permit to Operate (43-02) for C&DLF & LCIDLF expired. The permit applications (Doc IDs 5060, 19848, & 19849) had been received and reviewed by Solid Waste Section (SWS). The comments (Doc IDs 19850 & 19858) have been issued to the County in 10/2013, and the SWS is waiting for the responses from the County.
3. The C&DLF is in compliance with Rule .0547.
4. Observations were made of the progress of the approved corrective actions of groundwater contamination associated with waste operations at the closed unlined MSWLF (Phase III) including Phyto-remediation and leachate/groundwater extraction system & a new pump station.
5. A Field survey was conducted on the location/area, on the south end of the C&DLF, where the proposed "piggy-back" expansion is proposed in the permit application dated July 2013 (Doc ID 19849).
6. Phyto-remediation areas where two rows of poplar trees (about a dozen) were survived and very impressive. The poplar trees completed the limited nutrition with weeds and brushes which need to be mowed. The County representative said the mowing is not required during the winter period, a dormant season, but will be conducted next spring. S+G proposed to plug and abandon many piezometers and groundwater monitoring wells at the phyto-remediation area due to redundancy and recent water quality data. Details will be provided in the proposal.
7. The Sump # 2 that is located at south edge of the closed MSWLF (Phase III) overlain by the active C&DLF is pumping out the highest amount of leachate among the three on-site sumps (Sump # 1 is generating the least amount of leachate). Without the SWS approval, the County installed portions of the French Drain that is installed into waste mass seated in the south / southeast sides of the landfill and the upstream of the Sump #2 (the exact location of the drain is not shown on any drawings).

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8. The County is asking the SWS an approval to remove this portion of the French Drain which is potentially pumping non-impacted groundwater which was determined by the variation of groundwater tables in the groundwater wells adjacent to the landfill where the portion of French Drain was placed.
9. The “piggy-back” area used for new C&DLF was visually surveyed; the ideas of the earthen berm construction, leachate management inside the new “piggy-back” area, stormwater separation requirements, Sump # 2 protection in the courses of cell construction and operation were exchanged.
10. The on-site LFGCCs is inactive and in-operational because insufficient amount of landfill gas can be generated/extracted from the closed MSWLF (Phase III). The status of the on-site LFGCCs was discussed. The County currently doesn’t hold any NC air permit to operate the blower/flare station and seeks for a buyer to salvage the remaining values of the blower/flare station. The nine gas wells may be converted into gas vents in the future.
11. Joan Smyth and Elizabeth Werner discussed current and future assessment of the corrective action plans. Phase I of the phytoremediation project is in place and currently being monitored. The original CAP had plans for a phyto Phase II and the construction of a groundwater trench along the base of the landfill to intercept any possible contaminated groundwater. Since the Phase II phyto and the trench have not been implemented yet, S+G has requested to conduct an evaluation period to determine the effectiveness of the Phase I phytoremediation. This request was submitting to the SWS on October 30, 2013.
12. Joan Smyth and Elizabeth Werner discussed revising the current groundwater monitoring plan. There are more wells at the facility than needs to be with most of them being non-detect. S+G informed the SWS that the facility was collecting groundwater from every well, but not submitting all of this info to the SWS. The SWS only received groundwater data from a select few monitoring wells. S+G plan to sort through all of this data to create a more efficient monitoring plan. The revised monitoring plan was submitting to the SWS on October 29, 2013.
13. Digital pictures were taken during the inspection.

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



Phone: 910-433-3349

Dennis E. Shackelford
 Eastern District Supervisor

Sent on: December 9, 2013	X	Email		Hand delivery		US Mail		Certified No.
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- Copies:
- Michael Scott, Solid Waste Section Chief
 - Robert Hearn, Environmental Senior Specialist
 - Sarah Rice, Compliance Officer
 - Jessica Montie, Compliance Officer
 - Pieter Scheer P.E., Smith Garner Engineers
 - Ming-tai Chao, Permitting Engineer

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