



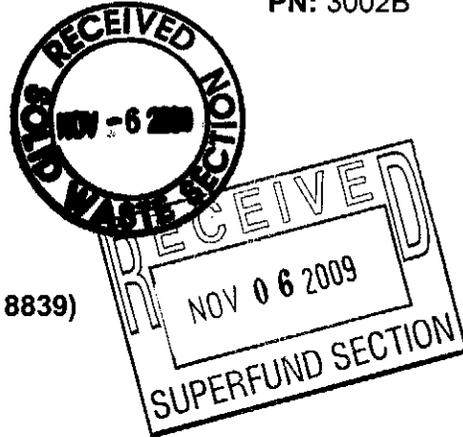
Clayton, Sr., P.E., Inc.
Civil & Environmental Engineering

Scanned by <i>Zinith Barbee</i>	11 Date <i>10/10/09</i>	Doc ID # <i>8884</i>
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November 5, 2009

PN: 3002B

Zinith Barbee
Project Manager
NC Department of Environment and Natural Resources
Division of Waste Management – Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646



**RE: Response to October 28, 2009 letter (SWS Doc ID 8839)
Corrective Action Plan
Dunn-Erwin Landfill Facility
SWS Permit No. 43-02
Harnett County, NC**

Mr. Barbee,

On behalf of Harnett County Solid Waste, this letter is in response to a letter from you dated October 28, 2009 in reference to a sentence found on page iv of the *Statistical Analysis/Evaluation, April 2009, Dunn-Erwin Municipal Solid Waste Landfill* (SWS Doc ID 8596).

It is apparent from the tone and language in your letter that the sentence has been miss-interpreted in a **manner in which it was not intended to be**. Our firm and Harnett County is fully aware that a Corrective Action Plan (CAP) has not been formally approved by the Solid Waste Section (SWS) for the Dunn-Erwin facility. However, Harnett County is prepared to begin **further** implementation of the modified CAP submitted on October 7, 2009 (SWS Doc ID 8742) immediately upon approval from SWS, if and when granted.

In defense of the sentence found on page iv of the *Statistical Analysis/Evaluation, April 2009, Dunn-Erwin Municipal Solid Waste Landfill* (SWS Doc ID 8596),

"Harnett County has begun the implementation of corrective action program according to North Carolina Solid Waste Management Rules 15A N.C.A.C. 13 B, .1637, as per SWS review and approval."

In order to revise the February 2009 version of the CAP per comments received from your office (SWS Doc ID 6840): and to prevent further violations of state rules due to current onsite conditions, Harnett County began actions to implement their overall Corrective Action **Program** (see specific details below). The word "program" was specifically chosen in the sentence being questioned due to the fact that a Corrective Action **Plan** has not been formally approved by the SWS.

This exact sentence was also included in the *Statistical Analysis/Evaluation, October 2008, Dunn-Erwin Municipal Solid Waste Landfill*. No comment was received on the inclusion of this sentence in that report.

Details of Corrective Actions already implemented:

P.O. Box 578
46 W. Washington St.
Coats, NC 27521
Phone: 910-897-7070
Fax: 910-897-6767

Enhanced Bioremediation Pilot Study activities: On June 3, 2009, Ryan Sadler and I met with Mark Poindexter and yourself of the SWS to discuss the review of the February 2009 version of the subject CAP (SWS Doc ID 6840). As detailed in that plan, in order to respond to comments and concerns expressed by you on the effectiveness of a planned Enhanced Bioremediation (EB), we verbally informed the SWS section during this meeting of our intent to perform in-situ testing of the aquifer, soils and microbial life to further determine the extent and cost of an EB system. No objection was given to this plan.

In a letter from our office, dated July 26, 2009 (SWS Doc ID 8625), details of the Microbial Insights testing of microbial, groundwater and soils to pre-screen the EB technology were given. In addition, a detailed schedule of the required sampling, required laboratory analysis, and proposed data analysis time was included in the letter with a final notification of results to the SWS scheduled by September 30, 2009. Again, no verbal or written objections to these actions were received from SWS. However, another letter requesting a revised CAP was received from the SWS on September 29, 2009 (SWS Doc ID 8673); one day before our scheduled submittal deadline of September 30, 2009 of results of the EB pilot testing.

Our office issued a letter on October 1, 2009 (SWS Doc ID 8702) detailing the results of the EB pilot testing and the intent to utilize Groundwater Extraction as an alternative to the formerly proposed EB system. In addition, the October 28, 2009 version of the CAP also includes a detailed description of the testing and analysis completed as part of the EB pilot study (see pages 21 and 22 and Appendix D of the October 2009 CAP).

Leachate Management System: Over the last 2 to 3 years, routine landfill inspections have uncovered several leachate pop-outs on the active C&D cell over closed MSW that have required attention. The standard method of repair has been to dig back down and into the cell down-gradient of the pop-out and fill the area with stone. This directs the leachate back into the cell. The cap material and vegetative cover would then be replaced.

During early June of this year, at a location where multiple repairs as described above had been made over the last few years, it was found that this type of repair was no longer handling the leachate pop-outs. Thus, in order to prevent a release of leachate out of the cell and toward waters of the state, the County began a process of installing a leachate sump with-in the cell and hauling excess leachate from the C&D/MSW cell to the County owned waste water treatment facility in Lillington, NC. The details of this temporary management plan and a future permanent pumping system were included in a letter, a Preliminary Engineering Report (PER) and drawings submitted to Geoffrey Little of the SWS in a letter dated June 16, 2009. The letter and attachments were mailed and also scanned versions were emailed on June 22, 2009. Currently, this document is not on the SWS Document database. To date, no response has been received on this submittal from the SWS Permit Section.

In addition, during a meeting at the Fayetteville Regional Office of NCDENR on July 30, 2009, a copy of the aforementioned leachate management plan was provided to the SWS staff in attendance. (Staff in attendance was: Drew Hammonds, Dennis Shackelford, and Mark Poindexter) Since no response has been received from our original submittal concerning the leachate management system, an inquiry was directed to the SWS staff present if this activity was an allowable means of leachate management. The verbal consensus from the SWS staff

was that this activity as described and shown was acceptable. A copy of the July 16, 2009 letter and attached PER and Drawings were left with the SWS staff during this meeting.

Also, due to the fact that it is theorized that the contaminant plume present at the DELF facility is at a minimum partially related to the excess levels of leachate present C&D/MSW cell, the leachate management plan was incorporated into the October 2009 CAP (see pages 23-24, 33, 43, and Appendix B of the October 2009 CAP)

The County is currently still operating the temporary (pump & haul) leachate management system and is awaiting approval of the October 2009 CAP prior to proceeding with implementation of a permanent pump system.

Conclusion:

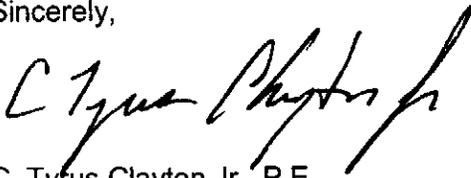
The intent of the statement found on page iv of the *Statistical Analysis/Evaluation, April 2009, Dunn-Erwin Municipal Solid Waste Landfill* (SWS Doc ID 8596) was that Harnett County has begun corrective actions surrounding the overall corrective action **program** that the County and our firm is proposing to implement upon approval of a Corrective Action **Plan** from the SWS. The statement of "per review and approval of SWS" was in specific reference to the two actions described in detail above. Verbal approval was given for both actions.

In the future, the sentence will be revised as follows so that it is not improperly interpreted:

Harnett County has begun the implementation of corrective actions as verbally approved by the SWS, and will implement the full Corrective Action Plan upon approval of the SWS according to North Carolina Solid Waste Management Rules 15A N.C.A.C. 13 B, .1637.

Hopefully this letter has cleared any misunderstandings of the language found in the *Statistical Analysis/Evaluation, April 2009, Dunn-Erwin Municipal Solid Waste Landfill* (SWS Doc ID 8596) and documented the actual corrective actions taking place at the facility.

Sincerely,



C. Tyfus Clayton Jr., P.E.

cc: file
Ryan Sadler, CTC
C. T. Clayton, Sr., PE, CTC
Jerry Blanchard, General Services Manager, Harnett County (Email copy)
Geoff Little, SWS (Email copy)
Mark Poindexter, SWS (Email copy)
CJ Poran, PE, ENSOL (Email copy)