



North Carolina Department of Environment and Natural Resources

Pat McCrory
Governor

John E. Skvarla, III
Secretary

August 13, 2014

Sent Via Email – buddy.norris@averycountync.gov

Mr. Buddy Norris
Avery County Solid Waste Director
P.O. Box 640
Newland, NC 28657

Re: *Landfill Gas Collection and Control System Expansion*
Closed Avery County MSW Landfill
Avery County
Solid Waste Permit Number 06-01
DIN 21586

Dear Mr. Norris:

The Solid Waste Section has completed a review of the *Landfill Gas Collection and Control System Expansion* dated August 2014 (DIN 21577) and submitted on behalf of Avery County by Smith Gardner for the closed and unlined Avery County MSW Landfill. Avery County currently operates an active landfill gas collection system with a flare due to continued methane gas exceedances at the facility.

The Phase One expansion project consisted of the following:

- Installation of a flare collar extension;
- Installation of two landfill gas extraction wells located on the northern portion of the property between current landfill gas extraction wells W1 and W3 and the edge of waste near Brushy Creek Road;
- Connection of the two new wells to the existing system and repairs to the connections for extraction wells W1 through W8;
- Installation of a filter tank and a new blower at the flare station; and
- Low pressure air testing of the entire system.

Based upon the results and information gathered from the expansion project, Avery County is proposing additional modifications. Avery County is proposing to conduct the following:

- A recharge rate test at extraction well W10 to determine the rate of liquid recharge and the effectiveness of implementing a periodic pumping program;
- Temporary connection of landfill gas monitoring well P3 to extraction well W9; and
- Submittal of a letter report summarizing the findings after a six month evaluation period.

As a result, the *Landfill Gas Collection and Control System Expansion* is approved as described. If you have any questions or concerns regarding this letter, please feel free to contact me at 919-707-8294 or by email at jaclynne.drummond@ncdenr.gov. Thank you for your continued cooperation with this matter.

Sincerely,



Jaclynne Drummond, Compliance Hydrogeologist
Solid Waste Section, Division of Waste Management
NCDENR

cc sent via email: Jason Watkins, Field Operations Branch Head
 Deb Aja, Environmental Senior Specialist
 Allen Gaither, Permitting Engineer
 Joan Smyth, Smith Gardner