

Asheville-Buncombe Air Quality Agency Facility Inspection Report

Facility Inspection Information					
Facility Name:	Buncombe County Landfill 1				
Date of Inspection:	April 4, 2024			Last Inspected:	July 11, 2022
Mailing Address:	Buncombe County Solid Waste Department 81 Panther Branch Rd. Alexander, NC 28701		Physical Location:	Old Buncombe County Landfill 2500 Riverside Drive Asheville, NC 28804	
Contact Name:	Aaron McKinzie, Kristy Smith			Phone Number:	(828)-250-5473 (Kristy's Office) (828)-776-5311 (Kristy's Cell)
Contact Email:	aaron.mckinzie@buncombecounty.org, kristy.smith@buncombecounty.org				
Permit #:	11-814-16A	Issued:	May 9, 2016	Expires:	May 31, 2024
Inspector(s):	Alexander (Alex) Latta				
Results:	Appears in Compliance			Inspection Time:	0940 Hours

Introduction

On the above date, a comprehensive inspection was conducted at Buncombe County Landfill 1. The purpose of this inspection was to determine compliance under the Asheville-Buncombe Air Quality Agency Air Quality Code (AB Air Quality Code). Buncombe County Landfill 1, otherwise known as the facility, is a landfill gas collection site located at the former Buncombe County Landfill. Operation of this facility is granted under permit number 11-814-16A which was issued on May 9, 2016, amended July 10, 2017, and expires on May 31, 2024. The inspection was conducted by Alex Latta. The facility was represented by Aaron McKinzie. The following is a summary of the inspection results:

Safety Equipment / Special Instructions

Steel-toed boots and a safety vest may be needed if walking through the landfill.

Permitted Equipment

- ES-1: One Landfill Gas Collection and Control System, including one Perennial Energy, Inc. candlestick-type flare with a maximum rated heat input capacity of 36 MMBtu/hr.

ES-1 was observed in operation during the inspection. The gas flow was observed to be 1144 scfm during the inspection.

Permit Conditions:

The following permit conditions were reviewed during this inspection:

- A.1 – The facility is required to operate according to AB Air Quality Code including but not limited to the following specified conditions and any other applicable Local, State, and Federal regulations.
- A.2 – The facility is required to operate the equipment per the specifications submitted in the permit application. Any changes in the permit application specifications or any existing equipment which alter the impact of the facility on air quality may require a permit.
- A.3 – The facility is required to submit an application for any changes or alterations to processes and equipment to AB Air Quality Agency. Failure to do so could result in enforcement action.
- A.4 – This condition requires the permittee to notify the Agency in the event of a name or ownership change.
- A.5 – This condition requires the facility to obtain a new air permit prior to installing and operating sources of air emissions at a site or location not specified in the permit.
- A.6 – This permit does not absolve the facility of any liabilities related to any civil/criminal penalties for violations of AB Air Quality Code prior to permit issuance. The facility shall be subject to enforcement action if the terms of the permit are violated.
- A.7 – This condition requires that the permittee maintain and operate the facility at all times so that the overall reduction in air pollutants, in accordance with applicable standards, is achieved. The facility has developed a maintenance schedule for equipment and is maintaining records of all maintenance. Additionally, the facility is maintaining an inventory of spare parts for equipment. The facility has established standard operating procedures for equipment and is training equipment operators on

the procedures. The facility conducts annual calibrations on the flare. The most recent calibration occurred on December 7, 2023.

- A.8 – This condition requires that the facility notify the Agency in the event of a malfunction. The facility has not experienced any malfunctions during the reporting period.
- A.9 – This condition lists the Agency address that the facility is required to submit any required reports, data, notifications, and requests for renewal.
- A.10 – The facility shall allow authorized Local, State, and Federal representatives on-site for inspection upon presentation of credentials.
- A.11 – This condition requires that the facility pay their annual permit fee on a timely basis. The facility is currently up-to-date on fee payments. The most recent fee payment occurred on June 12, 2023.
- A.12 – This condition requires the facility to submit a permit renewal request no later than ninety (90) days prior to permit expiration. The facility's request was received by the Agency on April 11th, 2024. A Notice of Deficiency will be issued since it was not received within 90 days of the expiration date of the permit.
- A.13 – This permit may be suspended or revoked by the AB Air Quality Agency Board under certain conditions.
- A.14 – This condition requires the facility retain a copy of the permit on the premises. The facility had a copy of their current operating permit on-site.
- B.1 – The previous issue of this permit shall become void with the issuance of this current version.
- B.2 – This condition states the facility shall be operated to prevent odorous emissions from being emitted beyond the boundary of the facility. The facility was not producing any odorous emissions during the inspection.
- B.3 – This condition states the facility shall be operated to ensure visible emissions do not exceed 20% opacity over a six-minute average. At the time of the inspection, the facility was not exhibiting an opacity.

- B.4 – This condition limits the maximum allowable sulfur dioxide emission rate resulting from the combustion of a fuel to 2.3 pounds per million BTU heat input. The sulfur dioxide emission rate is 0.015 pounds per million BTU for ES-1.
- B.5 – This condition states that the facility must submit annual reports to the Agency by February 15th of each year. The facility is submitting annual reports as required. The most recent annual report was received on January 11, 2024 and contained all the required information. The facility combusted 157,906,840 standard cubic feet of landfill gas in the flare during 2023. The flare operated for 8,554 hours during 2023.

Compliance History:

The facility does not have any history of recorded violations in the last ten (10) years. Since the facility's request to renew their permit was not received within 90 days, a Notice of Deficiency will be issued. Since the request has been received, this matter is resolved.

Conclusion:

Based on the above information, Buncombe County Landfill 1 appears to be in compliance with all applicable regulations of the AB Air Quality Code. It is recommended that this permit be renewed.

Signature: Alexander Fatta Date: 4/4/2024
Reviewer Signature: JCN Date: 4/26/2024
Director Signature: Asheer J Date: 5/1/2024