

**NORTH CAROLINA DIVISION OF
AIR QUALITY**

Application Review

Issue Date: **XXXX xx, 2022**

Region: Winston-Salem Regional Office
County: Randolph
NC Facility ID: 7600336
Inspector's Name: Robert Barker
Date of Last Inspection: 03/03/2022
Compliance Code: 3 / Compliance - inspection

<p style="text-align: center;">Facility Data</p> <p>Applicant (Facility's Name): Waste Management of Carolinas, Inc. - Great Oak Landfill</p> <p>Facility Address: Waste Management of Carolinas, Inc. - Great Oak Landfill 3597 Old Cedar Falls Road Randleman, NC 27317</p> <p>SIC: 4953 / Refuse Systems NAICS: 562212 / Solid Waste Landfill</p> <p>Facility Classification: Before: Title V After: Title V Fee Classification: Before: Title V After: Title V</p>	<p style="text-align: center;">Permit Applicability (this application only)</p> <p>SIP: 15A NCAC 02Q .0501(b)(1) NSPS: N/A NESHAP: Subpart M PSD: N/A PSD Avoidance: N/A NC Toxics: N/A 112(r): N/A Other: N/A</p> <p>Note: Removal of an existing permitted source (RC-01) from the permit.</p>
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Contact Data			Application Data
<p style="text-align: center;">Facility Contact</p> <p>Kyle Mertens Environmental Protection Manager (321) 403-2544 3597 Old Cedar Falls Rd. Randleman, NC 27317 kmertens@wm.com</p>	<p style="text-align: center;">Authorized Contact</p> <p>Thomas Lewis Director of Disposal Operations (716) 983-9511 3597 Old Cedar Falls Rd. Randleman, NC 27317 tlewis3@wm.com</p>	<p style="text-align: center;">Technical Contact</p> <p>Kyle Mertens Environmental Protection Manager (321) 403-2544 3597 Old Cedar Falls Rd. Randleman, NC 27317 kmertens@wm.com</p>	<p>Application Number: 7600336.21A Date Received: 10/21/2021 Application Type: Modification Application Schedule: TV-Significant <p style="text-align: center;">Existing Permit Data</p> Existing Permit Number: 10446T04 Existing Permit Issue Date: 03/29/2021 Existing Permit Expiration Date: 02/28/2026</p>

Total Actual emissions in TONS/YEAR:							
CY	SO2	NOX	VOC	CO	PM10	Total HAP	Largest HAP
2020	0.2400	0.8900	4.40	3.79	0.4000	2.67	1.03 [Toluene]
2019	0.1100	0.3900	4.56	1.67	0.1700	1.65	0.6341 [Toluene]
2018	---	---	2.27	---	---	0.6797	0.2613 [Toluene]

Consultant: SCS Engineers **Contact:** David Greene **Phone:** 828.285.8951 **email:** dgreene@scsengineers.com

<p>Review Engineer: Booker T. Pullen</p> <p>Review Engineer's Signature: _____ Date: XXXX xx, 2022</p>	<p style="text-align: center;">Comments / Recommendations:</p> <p>Issue: 10446T05 Permit Issue Date: xx/xx/2022 Permit Expiration Date: 02/28/2026</p>
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1. Purpose of Application

Waste Management of Carolinas, Inc. - Great Oak Landfill (hereafter referred to as Great Oak Landfill) is an active municipal solid waste (MSW) landfill, located in Randleman, Randolph County, North Carolina. The facility operates under Title V Permit No. 10446T04 with an expiration date of February 28, 2026. Great Oak Landfill submitted permit application No. 7600336.21A for the removal of the rock crusher (RD-01) and any associated permit conditions from the Title V permit.

Application 7600336.21A was received on October 21, 2021 and considered complete on that date. This application will be processed as a Significant Modification and is required to go through a 30-day public comment period via the DAQ website and a 45-day EPA review period prior to issuance.

2. Facility Description

Great Oak Landfill is located on a 667-acre parcel owned by Randolph County and is operated by Waste Management of Carolinas, Inc (Waste Management). The initial solid waste permit-to-construct (Permit No. 7607) was issued to the landfill in 2016. The landfill began accepting waste on January 9, 2017. The total landfill will be comprised of cells, numbered 1A, 1B, 2, 3, 4, 5, 6 and 7. Only cells 3a, 3b, 4, and 5 are currently accepting waste. This facility operates a “voluntary” landfill gas collection system with a candlestick flare. The gas is currently flared on-site only.

This landfill accepts both municipal solid waste and some asbestos-containing wastes that are deposited in specific areas of the landfill. According to a previous inspection report, the facility does not accept any improperly enclosed asbestos material. For the 2020 year, the landfill received 174.30 tons of asbestos material waste.

3. Permitting History

Revision No.	Issue Date	Description
T00	March 1, 2016	Greenfield permit, 1 st Time Title V at the request of the applicant
T01	March 17, 2016	Administrative amendment to change regulatory citation 15A NCAC .0525 (repealed 7/1/1996) to 15A NCAC 02D .1110.
T02	April 24, 2018	Administrative amendment to incorporate the recently promulgated NSPS XXX regulations into the permit because the facility modified the landfill site after the compliance date of July 7, 2014.
T03	April 28, 2020	Revised the permit for the installation of a voluntary gas collection system with flare and the addition of a portable rock crusher that was already on site (but not permitted). NOTE: the motor was exempt because of the nonroad mobile status, but crusher emissions were greater than 5 tpy.
T04	March 29, 2021	Permit renewal.
T05	June xx, 2022	Significant Modification issued.

4. Application Chronology

October 22, 2021	Complete application received by the Raleigh Central Office for the removal of the portable rock crusher (WS-01).
March 30, 2022	DAQ/RCO sent draft permit and engineering review to Stationary Source Compliance, Winston Salem Regional Office for comment. Neither the Regional Office nor Stationary Source Compliance had comments.
March 31, 2022	DAQ/RCO sent draft permit to applicant for review and comment. No comments received.
April 12, 2022	TVEE approved in IBEAM.

- April xx, 2022 Permit notice published, 30-day public notice and comment period begins, and 45-day EPA comment period begins.
- May xx, 2022 30-day public notice and comment period ends.
- June xx, 2022 45-day EPA comment period ends.
- June xx, 2022 Permit No. 10446T05 signed.

5. Table of Changes to Existing Permit No. 10446T04

The following changes were made to existing Title V air permit No. 10446T04*

Page No.	Section	Description
Cover Page	Cover Page	Updated letterhead Updated Permit revision numbers and dates throughout Updated PSD increment tracking statement
Cover Page	Cover Page	Added page containing “Notice Regarding The Right to Contest A Division Of Air Quality Permit”.
Cover Page	Cover Page	Revised the Summary Of “Changes To The Permits” table.
Page 1 of Permit	Body of Permit	Changed Permit number Corrected the page numbers of the permit Changed “Replaces Permit” number Revised effective date of Permit Revised application number Revised complete application date
Page 2 of permit	Table of Contents	Revised Table of Contents.
Page 3 of permit	List of Acronyms	List of acronyms relocated to this Section of the Permit.
Page 4 of permit	Permitted Sources Table	Removed the Portable Rock Crusher (RC-01) from the table of Permitted Sources.
N/A	Section 2.1	Removed the Portable Rock Crusher (RC-01) from the permit along with the associated monitoring and recordkeeping requirements.
Page 8 of permit	Section 2.1	Added 40 CFR 61, Subpart M to the table of applicable regulations.
Page 10	Section 2.1	Added odor regulation (02D .1806) to the landfill section of the permit.
Page 11	Section 2.2	Permit Shield for Nonapplicable Requirements
Page 11	Section 3	Added Insignificant Activities table as Section 3. Removed the nonroad engine associated with the Portable rock crusher (IES-6) from the insignificant activities table.
Pages 12-20	Section 4	Added General Conditions as Section 4 (Version 6.0, version 01/07/2022).

6. Table Permitted Sources

The facility's permitted emission sources are as follows:

Emission Source ID No.	Emission Source Description	Control Device ID No.	Control Device Description
ES-01 NSPS XXX 40 CFR 61 Subpart M	Municipal solid waste (MSW) landfill	CD-GCCS* CD-1*	One landfill gas collection system with One landfill gas-fired utility candlestick flare (3,500 scfm maximum flow rate, 106.26 million Btu per hour heat input at 506 Btu per cubic foot heat value of LFG)

* Voluntary gas collection and control system with no regulatory requirements under NSPS XXX.

Insignificant Activities in accordance with 15A NCAC 02Q .0503(8)

Emission Source ID No.	Emission Source Description
IES-1	Two Diesel-powered Mobile Truck Tipplers
IES-2	One 250,000 gallon Leachate Tank
IES-3	One 1,000 gallon No. 2 Fuel Oil Storage Tank
IES-4	Two Temporary Passive Solar Activated Flares
IES-5	One 2,000 gallon No. 2 Fuel Oil Storage Tank

7. NSPS, NESHAP/MACT, PSD, 112(r), CAM & Attainment Status

None of these regulations are affected by the removal of the portable rock crusher (RC-01).

Randolph County has not triggered increment tracking under PSD for any pollutants, so no tracking is required. This status is not affected with this permit modification.

8. Regulatory Review

The following regulations are being removed from the Title V permit with the removal of the portable rock crusher RC-01.

- 15A NCAC 02D .0510: Particulates From Sand, Gravel, Sand or Crushed Stone
- 15A NCAC 02D .0524: New Source Performance Standards, 40 CFR 60, Subpart OOO (Nonmetallic Mineral Processing Plants)

9. Other Regulatory Requirements

- A Zoning Consistency Determination was not required with this application to remove the portable rock crusher and associated monitoring and recordkeeping requirements.
- The application was signed by the Responsible Official (Thomas Lewis).
- The required permit application fee of \$1,002.00 was received on October 21, 2021 with the application.

10. Statement of Compliance

The latest compliance inspection was conducted by Robert Barker on March 3, 2022. The facility was found to be operating in compliance at the time of inspection.

11. Public Notice Review

A notice of the DRAFT Title V Permit shall be made pursuant to 15A NCAC 02Q .0521. The notice will provide for a 30-day comment period, with an opportunity for a public hearing. Consistent with 15A NCAC 02Q .0525, the EPA will have a concurrent 45-day review period. Copies of the public notice shall be sent to persons on the Title V mailing list and EPA. Pursuant to 15A NCAC 02Q .0522, a copy of each permit application, each proposed permit and each final permit shall be provided to EPA.

The 30-day public notice period was from MONTH XX, 20XX through MONTH XX, 20XX.

The EPA 45-day review period was from MONTH XX, 20XX through MONTH XX, 20XX.

[Number of] comments were received during the public notice period and the EPA review period.

12. Comments and Recommendations

This permit modification for the Great Oak Landfill located in Randleman, Randolph County, NC has been reviewed by DAQ to determine compliance with all procedures and requirements. DAQ has determined that this facility is complying or will achieve compliance, as specified in the permit, with all requirements that are applicable to the affected sources. The DAQ recommends the issuance of Air Permit No. 10446T05.