

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF PERMIT

In the matter of an
Application for Permit by:

DEP File No. AC 13-218495

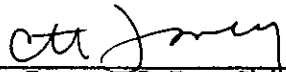
Mr. James A. Waters
Group Vice President
Waste Management of North America
500 Cypress Creek Road, Suite 300
Fort Lauderdale, Florida 33309

Enclosed is Construction Permit Number AC 13-218495 for the construction of a flare system at the City of Medley Sanitary Landfill and Recycling Center, located at 9350 N.W. 89th Street, Medley, Dade County, Florida. This permit is issued pursuant to Section 403, Florida Statutes.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


C. H. Fancy, P.E., Chief
Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, FL 32399-2400
904-488-1344

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF PERMIT and all copies were mailed before the close of business on 2/1/94 to the listed persons.

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED,
on this date, pursuant to
§120.52(11), Florida Statutes,
with the designated Department
Clerk, receipt of which is hereby
acknowledged.


(Clerk) 2/1/94
(Date)

Copies furnished to:

- I. Goldman, Southeast District
- P. Wong, Dade County Department of
Environmental Resources Management
- J. Harper, EPA
- J. Waters, Waste Management of North America

Final Determination

Waste Management of North America
City of Medley Landfill Flare
Dade County, Florida

Flare System
for Collection and Disposal of Active Gases
from Extraction Wells

Permit Number: AC 13-218495

Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation

January 26, 1994

Final Determination

The revised Technical Evaluation and Preliminary Determination for a permit to construct a flare system at the City of Medley Sanitary Landfill and Recycling Center, Dade County, Florida, was distributed on December 8, 1993. The Notice of Intent to Issue was published in The Miami Herald on January 5, 1994. Copies of the evaluation were available for public inspection at the Department offices in Tallahassee and West Palm Beach, and the Dade County Department of Environmental Resources Management office in Miami.

The only comment submitted was from the applicant. They requested permission to operate the flare for a maximum time period duration of 24 hours (to the point of steady state input gas flow) prior to the startup of the flare on a continuous basis, to allow the collection of a representative gas sample for sulfur content determination. This analysis is required by Specific Condition Number 9 of the permit. The permit language was modified to provide for the requested action.

The final action of the Department will be to issue construction permit No. AC 13-218495, as proposed in the Technical Evaluation and Preliminary Determination.



Florida Department of Environmental Protection

Twin Towers Office Building
2600 Blair Stone Road

Tallahassee, Florida 32399-2400

Virginia B. Wetherell

Secretary

Lawton Chiles

Governor

PERMITTEE:

Waste Management of North America
500 Cypress Creek Road, Suite 300
Fort Lauderdale, Florida 33309

Permit Number: AC 13-218495

**Expiration Date: December 1,
1994**

County: Dade

**Latitude/Longitude: 25°51'31"N
80°21'03"W**

**Project: City of Medley
Sanitary Landfill
and Recycling Center**

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 17-212 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and specifically described as follows:

For the construction of a flare system at the City of Medley Sanitary Landfill and Recycling Center. The UTM coordinates of this site are Zone 17, East 565.04 KM, North 2860.02 KM. Gas collected from the extraction wells is disposed of through an LFG Specialities, Inc. "candle type" flare.

The source shall be constructed in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Application to Operate/Construct Air Pollution Source, DEP Form 17-1.202(1), received September 1, 1992.
2. Department's letter dated September 30, 1992.
3. Ms. Pisatowski's letter received October 22, 1992.
4. Department's letter dated November 13, 1992.
5. Ms. Pisatowski's letter received December 7, 1992.
6. Ms. Pisatowski's letter received December 21, 1992.
7. Department's letter dated December 22, 1992.
8. Ms. Pisatowski's letter received February 5, 1993.
9. Department's letter dated February 26, 1993.
10. Mr. Dormier's letter received April 14, 1993.
11. Department's letter dated May 4, 1993.
12. Mr. Berg's letter received July 6, 1993.
13. Department's letter dated July 21, 1993.
14. Mr. Berg's letter received August 10, 1993.
15. Mr. Berg's letter received October 18, 1993.
16. Mr. Berg's letter received November 18, 1993.

PERMITTEE:
Waste Management of North
America

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

PERMITTEE:
Waste Management of North
America

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

GENERAL CONDITIONS:

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

- a. Have access to and copy any records that must be kept under the conditions of the permit;
- b. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
- c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- a. A description of and cause of non-compliance; and
- b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

PERMITTEE:
Waste Management of North
America

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

GENERAL CONDITIONS:

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 17-4.120 and 17-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- () Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- (X) Compliance with New Source Performance Standards (NSPS)

14. The permittee shall comply with the following:

- a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
 - the date, exact place, and time of sampling or measurements;
 - the person responsible for performing the sampling or measurements;
 - the dates analyses were performed;
 - the person responsible for performing the analyses;
 - the analytical techniques or methods used; and
 - the results of such analyses.

PERMITTEE:
Waste Management of North
America

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

GENERAL CONDITIONS:

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

SPECIFIC CONDITIONS:

1. This source shall be allowed to operate continuously (i.e., 8760 hours/year).
2. The utility flare system shall be operated so that the flame temperature is always at or above 1400°F. The system shall be calibrated such that if the flame temperature is less than 1400°F, the system will automatically shut down.
3. There shall be no visible emissions from the flare, except for periods not to exceed a total of five minutes during any two consecutive hours.
4. For inventory purposes, pollutant emission rates from the flare are:

	<u>Lb./Hour</u>	<u>Tons/Year</u>
NO _x	2.3	10.0
SO ₂	8.02	35.1
PM ₁₀	Trace	Trace
VOC	Trace	Trace

5. This source shall meet the requirements of 40 CFR 60.18, and Chapters 17-212 and 17-4, F.A.C.

6. Maximum allowable emission rates of carbon monoxide (CO) are 55.7 pounds per hour and 244.0 tons per year. These limitations are accepted by the permittee to avoid the otherwise applicable requirements of New Source Review - Prevention of Significant Deterioration (PSD), Rule 17-212.400, F.A.C., and application of Best Available Control Technology (BACT), Rule 17.212-410, F.A.C.

PERMITTEE:
Waste Management of North
America

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

SPECIFIC CONDITIONS:

7. Compliance with the visible emissions standard shall be determined using EPA Reference Method 22 and shall be for the duration of 2 hours. Such tests shall be conducted within 60 days of completion of construction and initial startup operation, and annually thereafter. The required visible emissions test report shall also contain the extraction wells gas flow rate and the flare temperature data.

8. Sulfur content of the input gas to the flare shall not exceed 4.0 lbs/hour.

9. An analysis shall be performed to determine the **sulfur content** of input gas to the flare, by American Society for Testing and Materials (ASTM) test method, D 3246-81, prior to flare startup. Additional tests shall be performed on a yearly basis, and results included as part of the facility's Annual Operating Report.

The permittee is granted permission to operate the flare for a maximum time period duration of 24 hours (to the point of steady state input gas flow) prior to the startup of the flare on a continuous basis, to allow the collection of a representative gas sample for sulfur content determination.

10. Pursuant to Rule 17-296.320(2), F.A.C., objectionable odors caused by this source are prohibited.

11. Total volumetric gas flow to the flare shall be limited to 1250 SCFM.

12. Proper devices to allow the continuous measurement of the total gas flow rate from all extraction wells to the flare, and the flare flame temperature, shall be installed prior to the collection and disposal of the active landfill gases. Such devices shall be properly calibrated and maintained at all times, according to manufacturers' written instructions.

The instrument to be used to measure gas flow to the flare is an orifice plate and Dwyer Magnehelic Gauge (or equivalent). The flare flame temperature will be monitored by a Fuji Electronic MicroController (or equivalent). The checking and recording of the flow and temperature data will be performed manually, on a weekly basis.

13. The net heating value of the input gas shall be 200 BTU/SCF or greater. Compliance with this parameter shall be determined by methodology specified in paragraph f of 40 CFR 60.18. Samples shall be taken, and results reported annually.

14. Actual exit velocity of the flare shall be calculated and reported on an annual basis, using methods specified in paragraph f of 40 CFR 60.18.

PERMITTEE:
Waste Management of North
America

Permit Number: AC 13-218495
Expiration Date: December 1, 1994

SPECIFIC CONDITIONS:

15. An operation and maintenance plan shall be submitted to the Department's Southeast District Office prior to the expiration date of this permit.
16. The Southeast District and Dade County Offices shall be given at least 15 days written notice prior to compliance testing.
17. Prior to placing the flare in service, the pilot gas for the flare shall be fired by propane at 25 scfh (standard cubic feet per hour), with a maximum heat input rate of .06 MMBtu/hr. The pilot light is not required when the flame is sustained by the landfill gas alone.
18. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).
19. An application for an operation permit must be submitted to the Southeast District Office at least 90 days prior to the expiration date of this construction permit. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, and certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rules 17-4.055 and 17-4.220).

Issued this 31 day
of January, 1994


STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Howard L. Rhodes, Director
Division of Air Resources
Management

Florida Department of
Environmental Protection

Memorandum

TO: Howard L. Rhodes
FROM: C. H. Fancy 
Date: January 27, 1994
SUBJ: Approval of Construction Permit
Waste Management of North America

Attached for your approval and signature is a permit to construct a flare at the City of Medley Sanitary Landfill and Recycling Center. The flare is used to collect and dispose of active gases (primarily methane) from extraction wells at the landfill site. The flare permit is needed to allow the gas to be burned to oxidize the potential odor causing constituents, and destroy the potentially explosive gases.

The only comment received was from the applicant, who requested permission to operate the flare for a maximum time period duration of 24 hours (to the point of steady state input gas flow) prior to the startup of the flare on a continuous basis, to allow the collection of a representative gas sample for sulfur content determination. This analysis is required by Specific Condition Number 9 of the permit. The permit language was modified to provide for the requested action.

I recommend your approval and signature.

CHF/TMC

Attachments

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, and 4a & b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1. Addressee's Address
- 2. Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Mr. James A. Waters
 Group Vice President
 Waste Management of North America
 500 Cypress Creek Road
 Suite 300
 Fort Lauderdale, Florida 33309

4a. Article Number

p. 872 562 587

4b. Service Type

- Registered Insured
- Certified COD
- Express Mail Return Receipt for Merchandise

7. Date of Delivery

2/13/94

5. Signature (Addressee)

Susan Godfrey

8. Addressee's Address (Only if requested and fee is paid)

6. Signature (Agent)

PS Form 3811, December 1991

U.S. GPO: 1992-323-402

DOMESTIC RETURN RECEIPT

Thank you for using Return Receipt Service.

P 872 562 587



Receipt for Certified Mail

No Insurance Coverage Provided
 Do not use for International Mail
 (See Reverse)

Sent to Mr. James A. Waters	
Street and No. 500 Cypress Creek Road	
P.O., State and ZIP Code Fort Lauderdale, FL 33309	
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date Mailed: 2/1/94 AC13-218495	

PS Form 3800, JUNE 1991