



State of Ohio Environmental Protection Agency

**RE: FINAL PERMIT TO INSTALL CERTIFIED MAIL  
MAHONING COUNTY**

Street Address:

122 S. Front Street

Lazarus Gov. Center TELE: (614) 644-3020 FAX: (614) 644-2329

Mailing Address:

Lazarus Gov. Center  
P.O. Box 1049

**Application No: 02-14069**

**DATE: 8/8/2000**

Central Waste, Inc  
Joanne Douglas  
12003 Oyster Rd  
Alliance, OH 44601

Enclosed please find an Ohio EPA Permit to Install which will allow you to install the described source(s) in a manner indicated in the permit. Because this permit contains several conditions and restrictions, I urge you to read it carefully.

The Ohio EPA is urging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Pollution Prevention at (614) 644-3469.

You are hereby notified that this action by the Director is final and may be appealed to the Ohio Environmental Review Appeals Commission pursuant to Chapter 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. It must be filed within thirty (30) days after the notice of the Directors action. A copy of the appeal must be served on the Director of the Ohio Environmental Protection Agency within three (3) days of filing with the Commission. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
236 East Town Street, Room 300  
Columbus, Ohio 43215

Very truly yours,

Thomas G. Rigo, Manager  
Field Operations and Permit Section  
Division of Air Pollution Control

cc: USEPA

NEDO



**Permit To Install**

STATE OF OHIO ENVIRONMENTAL PROTECTION AGENCY

**FINAL PERMIT TO INSTALL 02-14069**

Application Number: 02-14069  
APS Premise Number: 0250000806  
Permit Fee: **\$1600**  
Name of Facility: Central Waste, Inc  
Person to Contact: Joanne Douglas  
Address: 12003 Oyster Rd  
Alliance, OH 44601

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**12003 Oyster Rd**  
**Alliance, Ohio**

Description of proposed emissions unit(s):  
**Landfill operations associated with a 3.8 acre lateral/vertical site expansion.**

The above named entity is hereby granted a Permit to Install for the above described emissions unit(s) pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the above described emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency



Director

## Part I - GENERAL TERMS AND CONDITIONS

### A. Permit to Install General Terms and Conditions

#### 1. Compliance Requirements

The emissions unit(s) identified in this Permit to Install shall remain in full compliance with all applicable State laws and regulations and the terms and conditions of this permit.

#### 2. Reporting Requirements Related to Monitoring and Recordkeeping Requirements

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b. Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

#### 3. Records Retention Requirements

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

#### 4. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized

representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

**5. Scheduled Maintenance/Malfunction Reporting**

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

**6. Permit Transfers**

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

**7. Air Pollution Nuisance**

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

**8. Termination of Permit to Install**

This Permit to Install shall terminate within eighteen months of the effective date of the Permit to Install if the owner or operator has not undertaken a continuing program of installation or modification or has not entered into a binding contractual obligation to undertake and complete within a reasonable time a continuing program of installation or modification. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the party shows good cause for any such extension.

**9. Construction of New Sources(s)**

The proposed emissions unit(s) shall be constructed in strict accordance with the plans and application submitted for this permit to the Director of the Ohio Environmental Protection Agency. There may be no deviation from the approved plans without the express, written approval of the Agency. Any deviations from the approved plans or the above conditions may lead to such sanctions and penalties as provided under Ohio law. Approval of these plans does not constitute an assurance that the proposed facilities will operate in compliance with all Ohio laws and regulations. Additional facilities shall be installed upon orders of the Ohio

Environmental Protection Agency if the proposed sources are inadequate or cannot meet applicable standards.

If the construction of the proposed emissions unit(s) has already begun or has been completed prior to the date the Director of the Environmental Protection Agency approves the permit application and plans, the approval does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the approved plans. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of the Permit to Install does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Approval of the plans in any case is not to be construed as an approval of the facility as constructed and/or completed. Moreover, issuance of the Permit to Install is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities prove to be inadequate or cannot meet applicable standards.

**10. Public Disclosure**

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

**11. Applicability**

This Permit to Install is applicable only to the emissions unit(s) identified in the Permit to Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s).

**12. Best Available Technology**

As specified in OAC Rule 3745-31-05, all new sources must employ Best Available Technology (BAT). Compliance with the terms and conditions of this permit will fulfill this requirement.

**13. Source Operation and Operating Permit Requirements After Completion of Construction**

This facility is permitted to operate each source described by this Permit to Install for a period of up to one year from the date the source commenced operation. This permission to operate is granted only if the facility complies with all requirements contained in this permit and all applicable air pollution laws, regulations, and policies. Pursuant to OAC Chapter 3745-35, the permittee shall submit a complete operating permit application within thirty (30) days after commencing operation of the emissions unit(s) covered by this permit.

Central Waste, Inc  
PTI Application: 02-14069  
Issued: 8/8/2000

Facility ID: 0250000806

**14. Construction Compliance Certification**

The applicant shall provide Ohio EPA with a written certification (see enclosed form) that the facility has been constructed in accordance with the Permit to Install application and the terms and conditions of the Permit to Install. The certification shall be provided to Ohio EPA upon completion of construction but prior to startup of the source.

**15. Fees**

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable Permit to Install fees within 30 days after the issuance of this Permit to Install.

**B. Permit to Install Summary of Allowable Emissions**

The following information summarizes the total allowable emissions, by pollutant, based on the individual allowable emissions of each air contaminant source identified in this permit.

**SUMMARY (for informational purposes only)  
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
Non-methane Organic Compounds	20.58
Particulate Emissions	77.28

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F001 - Roadways and Parking Areas at a Municipal Solid Waste Landfill.	OAC rule 3745-31-05 (A)(3)	No visible emissions from any unpaved roadway or unpaved parking area except for a period of time not to exceed three minutes during any sixty-minute observation period.  best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b through A.2.g)  Particulate emissions: 74.84 tons per year.
	OAC rule 3745-17-08	This rule shall not apply, per OAC 3745-17-08 (A)(1).
	OAC rule 3745-17-07	This rule shall not apply, per OAC rule 3745-17-07 (B)(11)(d).

**2. Additional Terms and Conditions**

- 2.a The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

unpaved roadways:

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**Central Waste, Inc**  
**PTI Application: 02-14060**  
**Issued**

**Facility ID: 0250000806**

**Emissions Unit ID: F001**

All unpaved roadways at the landfill

unpaved parking areas:

All unpaved parking areas

- 2.b** The permittee shall employ best available control measures on all unpaved roadways and parking areas for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to treat the unpaved roadways and parking areas with water at sufficient treatment frequencies to ensure compliance and resurface with gravel as needed. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for an unpaved roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- 2.d** Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled by flushing. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to a visible emission limitation of no visible particulate emissions except for one minute during any 60-minute period.
- 2.e** The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- 2.f** Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- 2.g** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available

technology requirements of OAC rule 3745-31-05.

**B. Operational Restrictions**

1. Used oil as defined by OAC rule 3745-279-01 (A)(12) shall not be used as a dust suppressant.

**C. Monitoring and/or Recordkeeping Requirements**

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of the unpaved roadways and parking areas in accordance with the following frequencies:

<u>unpaved roadways</u>	<u>minimum inspection frequency</u>
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All landfill unpaved roadways	daily
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<u>unpaved parking areas</u>	<u>minimum inspection frequency</u>
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All landfill unpaved parking areas	daily
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- 2. The purpose of the inspections is to determine the need for implementing the above-mentioned control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
- 3. The permittee may, upon receipt of written approval from the Ohio EPA Northeast District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
- 4. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. the dates the control measures were implemented; and
  - d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in 4.d. shall be updated on a calendar quarter basis within 30 days after

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**Centr:**

**PTI A**

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Emissions Unit ID: **F001**

the end of each calendar quarter.

#### D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
  - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

#### E. Testing Requirements

1. Compliance with the emission limitation for the unpaved roadways and parking areas identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources," as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.
2. Emission Limitation: 74.84 tons per year of particulate emissions

Applicable Compliance Method: Compliance shall be demonstrated by using the following equation:

Per AP-42, Section 13.2.2, "Unpaved Roads", version 9/98.

$$E = k \times (S/15) \times (s/12)^{0.8} \times (W/3)^{0.5} \times [(365-p)/365]/(M/2)^{0.4} \times \text{VMT} \times (1/2000) \times (1 - 0.5) \times (1 - 0.3) \text{ where:}$$

E = particulate emission rate, tons per year

k = constant, 10

S = mean vehicular speed, 10 mph

s = silt content, 8.5%

W = mean vehicular weight, 29.0 tons

p = number of days with at least 0.01 inches of precipitation per year, 140 days

M = moisture content of road material, 0.2 assumed

VMT = vehicular miles traveled per year

2000 = conversion factor, pounds per ton

0.5 = control efficiency for watering from RACM Table  
2.1.1-3

0.3 = control efficiency for resurfacing from RACM Table  
2.1.1-3

**F. Miscellaneous Requirements**

1. The requirements of this permit to install replace the requirements of the previous permit issued for this emissions unit, PTI 02-2030

**PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	
F002 - Landfill Operations	OAC rule 3745-31-05 (A)(3)	OAC rule 3745-20-07 40 CFR, Part 61 Subpart M
	OAC rule 3745-17-08(B)(6)	
	OAC rule 3745-17-07(B)(1)	

**Centr:**  
**PTI A**  
**Issued: 8/8/2000**

Emissions Unit ID: **F002**

Applicable Emissions  
Limitations/Control Measures

Visible particulate emissions from this emissions unit shall not exceed 10 percent opacity as a six-minute average.

Best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. (See sections A.I.2.a through A.I.2.f)

Particulate emissions: 2.07 tons per year

Non-methane organic compound: 20.58 tons per year

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A)(3).

The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05 (A)(3).

See section A.2.g

See section A.2.h

**2. Additional Terms and Conditions**

**2.a** The landfill areas that are covered by this permit and subject to the requirements of OAC

3745-31-05 are listed below:

Landfill areas permitted under DSIWM permits:	02- 4934	issued 03/1992
	02- 7630	issued 08/1993
	02-10964	issued 05/1997
	02-13262	pending 06/2000

- 2.b** The permittee shall employ best available control measures on all landfill operations associated with the load-in of waste for the purposes of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to maintaining low dump heights and good operating practices to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** The above-mentioned control measures shall be employed for each landfill cell if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during any such operation until further observation confirms that use of the measures is unnecessary.
- 2.d** The permittee shall employ best available control measures for wind erosion from the surface of the landfill for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to watering dusty loads prior to dumping during periods of high wind speed to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The above-mentioned control measures shall be employed for wind erosion from the landfill if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for the landfill cell that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

Emissions Unit ID: F002

- 2.g The permittee shall continue to maintain a cover over the inactive area of asbestos-containing waste material by instituting one of the following:
  - i. place at least six inches of compacted nonasbestos-containing material, and grow and maintain a cover of vegetation on the area adequate to prevent exposure of the asbestos containing waste material
  - ii. place at least two feet of compacted nonasbestos-containing material, and maintain the cover to prevent exposure of the asbestos containing waste material.
- 2.h If the landfill becomes an active asbestos waste disposal site, the permittee shall comply with all requirements in section 61.154 of 40 CFR, Part 61, Subpart M, "Standards for Active Waste Disposal Sites"

**B. Operational Restrictions**

- 1. There shall be no open burning, in violation of OAC Chapter 3745-19, at this facility.
- 2. This emissions unit shall not operate more than 300 calendar days per year.

**C. Monitoring and/or Recordkeeping Requirements**

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each landfill cell in accordance with the following frequencies:

<u>Landfill Cell Identification</u>	<u>Minimum load-in inspection frequency</u>
Active cell(s)	Daily

- 2. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from landfill cell surfaces in accordance with the following frequencies:

<u>Landfill Cell Identification</u>	<u>Minimum Wind Erosion Inspection Frequency</u>
Active cell(s)	Daily
Closed cell(s)	Weekly

- 3. No inspection shall be necessary for wind erosion from the surface of a landfill cell when the cell is covered with snow and/or ice and for any landfill cell activity if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-mentioned events shall be

performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

4. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in of a landfill cell, and wind erosion from the surface of a landfill cell. The inspections shall be performed during representative, normal landfill operating conditions.
5. The permittee may, upon receipt of written approval from the Northeast District Office of the Ohio EPA, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
6. The permittee shall maintain records of the following information:
  - a. The date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. the dates the control measures were implemented; and
  - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from landfill surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 6.d shall be kept separately for (i) the load-in operation, and (ii) the landfill surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

7. The permittee shall annually record the amount of waste deposited in the landfill.
8. The permittee shall record, each day, if operations occurred at the facility.

#### **D. Reporting Requirements**

1. The permittee shall submit deviation reports that identify any of the following occurrences:

Emissions Unit ID: **F002**

- a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
  - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.
  3. The permittee shall notify the Northeast District Office of the Ohio EPA in writing, 45 days, prior to disturbing or removing any asbestos-containing waste material. The notice shall contain the reason for disturbing the waste, the procedures to be used to control emissions, the duration of the operation and the location of the final disposal site.
  4. The permittee shall submit a deviation report, by January 31, if operations exceeded 300 days the previous calendar year.

#### **E. Testing Requirements**

1. Compliance with the visible emission limitations for the landfill surfaces shall be determined in accordance with Test Method 9 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources").
2. Emission Limit: 2.07 tons per year of particulate matter from landfill surface.

Applicable Compliance Method: Compliance shall be determined by adding the results of the following equations:

For Waste Handling: AP-42, section 13.2.4, Aggregate Handling and Storage Piles, version 1/95.

$$EWH = \{[k \times 0.0032 (U/5)^{1.3}] / (M/2)^{1.4}\} \times TPY / 2000$$
 where:

EWH = emission rate from landfill operations, tons per year

k = particulate emissions coefficient, 0.74

U = mean wind speed in mph, 7

M = moisture content, 10%

TPY = waste acceptance rate, tons per year.

2000 = conversion factor, pounds per ton.

## For Wind Erosion

$EWE = 1.7 \times S/1.5 \times [(365-p)/235] \times (f/15) \times A \times 365 \times 2000$   
where:

EWE = emission rate from wind erosion, tons per year

S = silt content, 9

p = # of days with less than 0.01 inch of precipitation, 150

f = % time wind speed exceeds 12 mph, 40%

A = surface area of landfill in acres, 42.62

365 = number of days per year

2000 = pounds per ton

## Total Emissions

$E = EWH + EWE$  where:

E = total emissions from emission unit, tons per year

EWH = emissions from landfill operations, tons per year

EWE = emissions from wind erosion, tons per year

3. Emission Limitation: 20.58 tons per year of non-methane organic compounds

Applicable Compliance Method: Compliance shall be determined by using the following equations:

Per AP-42, section 2.4, Municipal Solid Waste Landfills

a.  $Q_{CH_4} = L_o \times R \times (e^{-kc} - e^{-kt})$  where:

$Q_{CH_4}$  = methane generation rate at t, m<sup>3</sup>/yr

$L_o$  = methane generation potential, m<sup>3</sup> of CH<sub>4</sub>/Mg,  
100

R = average annual acceptance rate at t, Mg/yr

k = methane generation rate constant, yr<sup>-1</sup>, 0.04

c = time since closure, years, (c=0 for active landfills)

t = time since initial waste placement, years

b.  $Q_{NMOC} = 1.82 \times Q_{CH_4} \times (C_{NMOC}/1E6)$  where:

$Q_{\text{NMOC}}$  = non-methane organic compound generation rate at t, m<sup>3</sup>/yr

$Q_{\text{CH}_4}$  = calculated from equation (1)

$C_{\text{NMOC}}$  = concentration of NMOC in landfill gas, ppmv, 595

c.  $UM_{\text{NMOC}} = Q_{\text{NMOC}} \times (\text{MW}/24.45)$  where:

$UM_{\text{NMOC}}$  = uncontrolled mass rate of emissions of NMOC, kg/yr

$Q_{\text{NMOC}}$  = calculated from equation 2

MW = molecular weight of NMOC, 86.16

d.  $E = UM_{\text{NMOC}} \times 0.0011$  where:

E = emission rate on NMOC, tons per year

$UM_{\text{NMOC}}$  = calculated from equation 3

0.0011 = conversion factor, kg per ton

## F. Miscellaneous Requirements

1. The requirements of this permit to install replace the requirements of the previous permit issued for this emissions unit, PTI 02-2030.
2. Pursuant to the authority in OAC rule 3745-77-07(C)(2) or ORC section 3704.03(L), any representative of the Director may, upon presentation of proper identification, enter at any reasonable time upon any portion of the property where this landfill is located, including any improvements thereon, to make inspections, take samples, conduct tests and examine records or reports pertaining to any emissions of air contaminants and any monitoring equipment, emissions control equipment or methods. No operator or agent of this landfill shall act in any manner to refuse, hinder, or thwart this legal right of entry.

## PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

### A. Applicable Emissions Limitations and/or Control Requirements

- The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F003 - load-in and load-out of storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05 (A)(3)	no visible emissions except for one minute in any hour  best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b, A.2.c and A.2.f)
wind erosion from storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05 (A)(3)	no visible emissions except for one minute in any hour  best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.d through A.2.f)
	OAC rule 3745-17-08 (B)	Combined particulate emissions shall not exceed 0.21 ton per year from wind erosion and load-in and load-out operations.  This rule shall not apply, per OAC 3745-17-08 (A)(1).
	OAC rule 3745-17-07 (B)	This rule shall not apply, per OAC 3745-17-07 (B)(11)(e).

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**Centr:**

**PTI A**

**Issued: 8/8/2000**

Emissions Unit ID: **F003**

## 2. Additional Terms and Conditions

- 2.a** The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:

Sand stockpiles  
Soil stockpiles  
Slag stockpiles

- 2.b** The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to minimize dump height and to process material with an inherently high moisture content to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.c** The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- 2.d** The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to watering the stockpiles and applying a vegetative cover to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- 2.e** The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements.
- 2.f** Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of

OAC rule 3745-31-05.

**B. Operational Restrictions**

None

**C. Monitoring and/or Recordkeeping Requirements**

- 1. Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-in inspection frequency</u>
Soil stockpile	Daily
Slag stockpile	Daily
Sand stockpile	Daily

- 2. Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum load-out inspection frequency</u>
Soil stockpile	Daily
Slag stockpile	Daily
Sand stockpile	Daily

- 3. Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

<u>storage pile identification</u>	<u>minimum wind erosion inspection frequency</u>
Soil stockpile	Daily
Slag stockpile	Daily
Sand stockpile	Daily

- 4. No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity if precipitation has occurred that

Emissions Unit ID: F003

is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

5. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.
6. The permittee may, upon receipt of written approval from the appropriate Ohio EPA Northeast District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
7. The permittee shall maintain records of the following information:
  - a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. the dates the control measures were implemented; and
  - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 7.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

8. The permittee shall annually record the amount of soil, sand, and slag received.

#### **D. Reporting Requirements**

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency,

excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and

- b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

#### E. Testing Requirements

1. Compliance with the visible emission limitations for the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.
2. Emission Limitation: Particulate emissions shall not exceed 0.21 ton per year.

Applicable Compliance Method: Compliance shall be determined by adding the results of the following equations, from Air Pollution Engineering Manual, Chapter 4, Fugitive Emissions, Storage-Pile Wind Erosion

For wind erosion

$$EW = (1.7 \times (s/15) \times [(365-p)/235] \times (f/15) \times 365 \times S \times N/2000) \times (1-0.9)$$

Where:

EW = emissions (tons of particulate emissions per year)

s = silt content, 15%

p = days with precipitation greater than 0.01 inches per year, 210

f = percent of unobstructed wind speed exceeding 12 mph, 30%

365 = conversion factor (days per year)

S = average pile surface area (assume 0.5 acre/pile)

N = number of storage piles

Emissions Unit ID: **F003**

0.9 = control efficiency of watering and vegetative cover

And for material handling from AP-42, Section 13.2.4, Aggregate Handling and Storage Piles, version 1/95.

$EL = 2 \times ([k \times 0.0032 \times (U/5)^3 / (M/2)^{1.4}] \times TPY / 2000) \times (1 - 0.9)$  Where:

EL = emission rate, tons per year

k = particulate emissions coefficient, 0.74

U = mean wind speed in mph, 10

M = moisture content, 10%

TPY = amount of aggregate handled, tons per year

2000 = conversion factor, pounds per ton

0.9 = control efficiency of watering and vegetative cover

For Total Particulate Emissions

$ET = EW + EL$  where:

ET = total particulate emissions from this emissions unit

EW = particulate emissions from wind erosion, calculated above

EL = particulate emissions from load-in and load-out operations, calculated above.

## F. Miscellaneous Requirements

None

## PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

### A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
F004 -Material handling operations at the bulking pit	OAC rule 3745-31-05 (A)(3)	no visible emissions except for one minute in any 60-minute observation period
	OAC rule 3745-17-08	best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.a and A.2.b)
	OAC rule 3745-17-07 (B)	Particulate emissions: 0.16 ton per year
		This rule shall not apply, per OAC 3745-17-08 (A)(1).
		This rule shall not apply, per OAC rule 3745-17-07 (B)(11)(d).

### 2. Additional Terms and Conditions

- 2.a The permittee shall employ best available control measures on all material handling operations associated with the bulking process for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to process material with an inherently high moisture content to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- 2.b** The above-mentioned control measure(s) shall be employed for each material handling operation of the bulking process if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.

**B. Operational Restrictions**

None

**C. Monitoring and/or Recordkeeping Requirements**

1. Except as otherwise provided in this section, the permittee shall perform inspections of each material handling operation for each bulk process in accordance with the following frequencies:

<u>material handling identification</u>	<u>minimum material handling inspection</u>
<u>frequency</u>	
Bulking process	daily

2. No inspection shall be necessary for material handling operations when precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.
3. The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for material handling operations. The inspections shall be performed during representative, normal material handling operating conditions.
4. The permittee may, upon receipt of written approval from the appropriate Ohio EPA Northeast District Office, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
5. The permittee shall maintain records of the following information:

Emissions Unit ID: F004

- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented and, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in 5.d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

6. The permittee shall annually record the amount of material handled at the bulking process.

#### **D. Reporting Requirements**

1. The permittee shall submit deviation reports that identify any of the following occurrences:
  - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
  - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

#### **E. Testing Requirements**

1. Compliance with the visible emission limitations for the material handling identified above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR, Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.
2. Emission Limitation: 0.16 ton per year of particulate emissions

Applicable Compliance Method:  
equation:

Compliance shall be demonstrated by the following

Per AP-42, section 13.2.4, Aggregate Handling and Storage Piles, version 1/95

$$E = k \times 0.0032 \times (U/5)^{1.3} / (M/2)^{1.4} \times \text{TPY} / 2000$$

Where:

k = equation coefficient, 0.74

U = mean wind speed, 10 mph

M = material moisture content, 10%

TPY = amount of material handled through bulking process, tons per year

2000 = conversion factor, pounds per ton

#### F. Miscellaneous Requirements

None





**NEW SOURCE REVIEW FORM B**

PTI Number: 02-14069 Facility ID: 0250000806

FACILITY NAME Central Waste, Inc

FACILITY DESCRIPTION Landfill operations associated with a 3.8 CITY/TWP Alliance

Emissions Unit ID: **F004**

SIC CODE 4953 SCC CODE 5-02-006-02 EMISSIONS UNIT ID F003

EMISSIONS UNIT DESCRIPTION Stockpiles (Slag, Sand, and Soil)

DATE INSTALLED Upon Issuance

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment		0.04		0.21
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP?

PSD?

OFFSET POLICY?

**WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?**

**Enter Determination** no visible emissions except for one minute in any hour. best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ N/A

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*? \_\_\_\_\_ YES  X  NO

IDENTIFY THE AIR CONTAMINANTS:  N/A

**3 NEW SOURCE REVIEW FORM B**

PTI Number: 02-14069

Facility ID: 0250000806

FACILITY NAME Central Waste, Inc

FACILITY DESCRIPTION Landfill operations associated with a 3.8 CITY/TWP Alliance

Emissions Unit ID: **F004**

SIC CODE 4953

SCC CODE 5-02-006-02

EMISSIONS UNIT ID F004

EMISSIONS UNIT DESCRIPTION Material Handling for solidification operations

DATE INSTALLED Upon Issuance

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

Pollutants	Air Quality Description	Actual Emissions Rate		PTI Allowable	
		Short Term Rate	Tons Per Year	Short Term Rate	Tons Per Year
Particulate Matter	attainment		0.05		0.16
PM <sub>10</sub>					
Sulfur Dioxide					
Organic Compounds					
Nitrogen Oxides					
Carbon Monoxide					
Lead					
Other: Air Toxics					

APPLICABLE FEDERAL RULES:

NSPS?

NESHAP?

PSD?

OFFSET POLICY?

**WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?**

**Enter Determination** no visible emissions except for one minute in any hour. best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust.

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY?

No

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT?

\$ N/A

**TOXIC AIR CONTAMINANTS**

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED\*?

YES

NO

IDENTIFY THE AIR CONTAMINANTS:

N/A

38 **NEW SOURCE REVIEW FORM B**

PTI Number: 02-14069

Facility ID: 0250000806

FACILITY NAME Central Waste, Inc

FACILITY DESCRIPTION Landfill operations associated with a 3.8 CITY/TWP Alliance

Emissions Unit ID: F004

**Ohio EPA Permit to Install Information Form** Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit **hard copy items to Pam McGraner**, AQM&P, DAPC, Central Office, and electronic files to **airpti@epa.state.oh.us**

Please fill out the following. If the checkbox does not work, replace it with an 'X'

	<u>Electronic</u>	<u>Additional information File Name Convention (your PTI # plus this letter)</u>	<u>Hard Copy</u>	<u>None</u>
Calculations (required)	<input type="checkbox"/>	0000000c.wpd	<input checked="" type="checkbox"/>	
Modeling form/results	<input type="checkbox"/>	0000000s.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PTI Application (complete or partial)*	<input type="checkbox"/>	0000000a.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
BAT Study	<input type="checkbox"/>	0000000b.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other/misc.	<input type="checkbox"/>	0000000t.wpd	<input type="checkbox"/>	<input checked="" type="checkbox"/>

\* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

NSR Discussion

This facility does not meet or exceed the minimum design capacity (2.5 million cubic meters) in order to be regulated under 40 CFR, Part 60 Subpart W or OAC Chapter 3745-76. This facility has a capacity of approximately 1.73 million cubic meters

Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):

**Synthetic Minor Determination and/or**  **Netting Determination**  
Permit To Install **ENTER PTI NUMBER HERE**

- A. Source Description
- B. Facility Emissions and Attainment Status
- C. Source Emissions
- D. Conclusion

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:

NONE

Please complete:

SUMMARY (for informational purposes only)

39 **NEW SOURCE REVIEW FORM B**

PTI Number: 02-14069

Facility ID: 0250000806

FACILITY NAME Central Waste, Inc

FACILITY DESCRIPTION Landfill operations associated with a 3.8 CITY/TWP Alliance

Emissions Unit ID: **F004**

**TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS**

<u>Pollutant</u>	<u>Tons Per Year</u>
Non-methane Organic Compounds	20.58
Particulate Emissions	77.28