



State of Ohio Environmental Protection Agency

Street Address:  
Lazarus Gov. Center  
122 S. Front Street  
Columbus, OH 43215

TELE: (614) 644-3020 FAX: (614) 644-2329

**RECEIVED**

**NOV 22 2006**

Mailing Address:  
Lazarus Gov. Center  
P.O. Box 1049  
Columbus, OH 43216-1049

**CANTON CITY HEALTH DEPT,  
AIR POLLUTION DIVISION**

**RE: FINAL PERMIT TO INSTALL  
STARK COUNTY  
Application No: 15-01599  
Fac ID: 1576000806**

**CERTIFIED MAIL**

	TOXIC REVIEW
	PSD
	SYNTHETIC MINOR
	CEMS
	MACT
40 CFR Part 60, Subpart O	NSPS
40 CFR Part 61, Subpart E	NESHAPS
	NETTING
	MAJOR NON-ATTAINMENT
	MODELING SUBMITTED
	GASOLINE DISPENSING FACILITY

**DATE: 11/21/2006**

Canton Water Pollution Control Facility  
Tracy Mills  
P.O. Box 24218 218 Cleveland Ave., S.W.  
Canton, OH 447014218

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 of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 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. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00 which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
309 South Fourth Street, Room 222  
Columbus, OH 43215

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section  
Division of Air Pollution Control

CC: USEPA

Canton LAA



**Permit To Install  
Terms and Conditions**

**Issue Date: 11/21/2006  
Effective Date: 11/21/2006**

**FINAL PERMIT TO INSTALL 15-01599**

Application Number: 15-01599

Facility ID: 1576000806

Permit Fee: **\$1000**

Name of Facility: Canton Water Pollution Control Facility

Person to Contact: Tracy Mills

Address: P.O. Box 24218 218 Cleveland Ave., S.W.  
Canton, OH 447014218

Location of proposed air contaminant source(s) [emissions unit(s)]:  
**218 Cleveland Ave., S.W.  
Canton, Ohio**

Description of proposed emissions unit(s):

**Modify PTI No. 15-1283 dated April, 1999 to change emission limitations.**

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. State and Federally Enforceable Permit-To-Install General Terms and Conditions

#### 1. Monitoring and Related Recordkeeping and Reporting Requirements

- a. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
  - i. The date, place (as defined in the permit), and time of sampling or measurements.
  - ii. The date(s) analyses were performed.
  - iii. The company or entity that performed the analyses.
  - iv. The analytical techniques or methods used.
  - v. The results of such analyses.
  - vi. The operating conditions existing at the time of sampling or measurement.
- b. 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.
- c. Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
  - i. Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
  - ii. Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the appropriate Ohio EPA District Office or local air agency. The written

reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See B.9 below if no deviations occurred during the quarter.

- iii. Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
  - iv. If this permit is for an emissions unit located at a Title V facility, then each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d. The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

## 2. 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, i.e., upset, 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. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to 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 emission unit(s) that is (are) served by such control system(s).

## 3. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

**4. Title IV Provisions**

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

**5. Severability Clause**

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

**6. General Requirements**

- a. The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification
- b. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c. This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d. This permit does not convey any property rights of any sort, or any exclusive privilege.
- e. 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 or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director; copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

**7. 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 any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

**8. Federal and State Enforceability**

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

**9. Compliance Requirements**

- a. Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
  - i. At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
  - ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
  - iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
  - iv. As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.

- c. The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually, or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
  - i. Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
  - ii. An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

## 10. Permit-To-Operate Application

- a. If the permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77, the permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if the proposed new or modified source(s) would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification must be obtained before the operation of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d).
- b. If the permittee is required to apply for permit(s) pursuant to OAC Chapter 3745-35, the source(s) identified in this permit is (are) permitted to operate for a period of up to one year from the date the source(s) commenced operation. 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 ninety (90) days after commencing operation of the source(s) covered by this permit.

## 11. 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.

## 12. 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.

**13. Permit-To-Install**

A permit-to-install must be obtained pursuant to OAC Chapter 3745-31 prior to "installation" of "any air contaminant source" as defined in OAC rule 3745-31-01, or "modification", as defined in OAC rule 3745-31-01, of any emissions unit included in this permit.

**B. State Only Enforceable Permit-To-Install General Terms and Conditions**

**1. Compliance Requirements**

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

**2. Reporting Requirements**

The permittee shall submit required reports in the following manner:

- a. Reports of any required monitoring and/or recordkeeping of state-only enforceable 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 state-only required 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 (i.e., postmarked) quarterly, 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. 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.

**4. Authorization To Install or Modify**

If applicable, authorization to install or modify any new or existing emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit 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.

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

This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. 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 this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit 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 cannot meet the requirements of this permit or cannot meet applicable standards.

**6. 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.

**7. 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).

**8. Construction Compliance Certification**

If applicable, the applicant shall provide Ohio EPA with a written certification (see enclosed form if applicable) 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.

9. **Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations (See Section A of This Permit)**

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., postmarked), by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

C. **Permit-To-Install Summary of Allowable Emissions**

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

<u>Pollutant</u>	<u>Tons Per Year</u>
PM	6.15
VOC	8.2
SO <sub>2</sub>	3.2
NO <sub>x</sub>	38.3
CO	217.0
Mercury	1.29

**Part II - FACILITY SPECIFIC TERMS AND CONDITIONS**

**A. State and Federally Enforceable Permit To Install Facility Specific Terms and Conditions**

None

**B. State Only Enforceable Permit To Install Facility Specific Terms and Conditions**

None

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)**

**A. State and Federally Enforceable Section**

**I. 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>
<p>N001 - Municipal sewage sludge Incinerator No. 1. This emissions unit has a rated capacity of 2,160 pounds-per-hour of dry sludge feed rate. The incinerator is a multiple hearth incinerator. BAT includes the use of a 3-stage impingement tray and six venturi stage scrubbers.</p>	<p>OAC rule 3745-31-05(A) (Modification of PTI 15-1283)</p>	<p>The permittee shall not exceed the following emission limits:</p> <p>1.9 lbs VOC/hour and 8.2 tons VOC/yr.</p> <p>0.72 lbs SO<sub>2</sub>/hour and 3.2 tons SO<sub>2</sub>/yr.</p> <p>8.7 lbs NO<sub>x</sub>/hour and 38.3 tons NO<sub>x</sub>/yr.</p> <p>49.5 lbs CO/hour and 217 tons CO/yr.</p> <p>1.29 tons Hg/yr.</p> <p>6.15 tons PM per year.</p> <p>See section A.1.2.a.</p>
	<p>OAC rule 3745-17-11(A)</p>	<p>Visible particulate emissions from any stack shall not exceed 20 % opacity as a 6-minute average except as provided by rule.</p>
	<p>OAC rule 3745-17-09(C)</p>	<p>See section A.1.2.b.</p>
	<p>40 CFR Part 61, Subpart E</p>	<p>3,200 grams Hg/24 hour period</p>
	<p>40 CFR Part 60, Subpart O</p>	<p>1.3 lbs PM/ton dry sludge</p>
	<p>40 CFR Part 61, Subpart C</p>	<p>See section A.1.2.c</p>

OAC rule 3745-17-07  
OAC rule 3745-17-09(B)

The PM and visible emission limitations specified in 40 CFR Part 60, Subpart O are more restrictive than those specified in these rules.

## 2. Additional Terms and Conditions

- 2.a** The terms and conditions of this PTI supercede those in PTI 15-01283.
- 2.b** This incinerator, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent emissions of objectionable odors.
- 2.c** This emissions unit is not subject to the beryllium NESHAP (40 CFR Part 61, Subpart C) because the sewage sludge processed in this emissions unit does not contain any "beryllium containing waste". As defined in 40 CFR Part 61.31(g), "beryllium containing waste" means material contaminated with beryllium and/or beryllium compounds used or generated during any process or operation performed by a source subject to this subpart (40 CFR Part 61, Subpart C). See section A.IV.4.
- 2.d** The permittee shall collect a representative grab sample of the sludge fed to the incinerator once per day. The facility shall analyze the sample for volatile solids content and dry sludge content once per day. The permittee shall provide access to the sludge charged so that a well-mixed representative grab sample of the sludge can be obtained.
- 2.e** If a subsequent performance test shows PM emissions exceed 0.75 pound per ton of dry sludge, permittee shall use the formulation established in 40 CFR 60.155 (a) (1) (i) to determine the allowable pressure drop range. An exceedance of the pressure drop operating level is considered to have occurred when the pressure drop across the scrubber is less than the minimum acceptable level for a duration of 15 minutes or more in an hour and measured only when the sludge is being charged to the incinerator (i.e., excluding downtime, start-up, and shut-down periods).
- 2.f** The average oxygen content of the incinerator exhaust gas for each one-hour incinerator operating period shall not exceed the oxygen content measured during the most recent performance test by more than 3 percent. If the last previous satisfactory performance test showed a particulate matter emission rate of less than 0.75 lb/ton charged, the oxygen content does not have to be maintained below the designated threshold.
- 2.g** Every hearth shall be maintained at a temperature to be determined during a performance test in which compliance is demonstrated. The operation of the sewage sludge incinerator shall not exceed the maximum or minimum combustion temperatures (averaged over each one-hour incinerator operating period) as

determined during the performance test of the sludge incinerator. If the last previous satisfactory performance test showed a particulate matter emission rate of less than 0.75 lb/ton charged, the temperature does not have to be monitored and these minimum and maximum limits will not have to be met.

## **II. Operational Restrictions**

1. The permittee shall operate only one of the two multiple hearth sludge incinerators (N001 and N002) at this facility at any one time except during switch over from one incinerator to the other. Consequently, the annual allowable emissions reflect the operation of just one incinerator.

## **III. Monitoring and/or Record keeping Requirements**

1. Mercury shall be monitored, and records maintained, as specified under 40 CFR 61 Subpart E.
2. This facility shall install, calibrate, maintain, and operate the following monitoring devices:
  - a. a flow measuring device which can be used to continuously determine either the mass or volume of sludge charged to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of plus/minus 5 percent over its operating range. The amount of sludge shall be recorded during all periods of operation;
  - b. a monitoring device that continuously measures and records the pressure drop of the gas flow through the wet scrubbing device. Where a combination of wet scrubbers is used in series, the pressure drop of the gas flow through the combined system shall be continuously monitored. The device used to monitor the scrubber pressure drop shall be certified by the manufacturer to be accurate within plus/minus 1 inch water gauge and shall be calibrated on an annual basis in accordance with the manufacturer's instructions;
  - c. a monitoring device that continuously measures and records the oxygen content of the incinerator exhaust gas. The oxygen monitor shall be located upstream of any rabble shaft cooling air inlet into the incinerator exhaust stream, fan, ambient air recirculation damper, or any other source of dilution air. The oxygen monitoring device shall be certified by the manufacturer to have a relative accuracy of plus/minus 5 percent over its operating range and shall be calibrated according to method(s) prescribed by the manufacturer at least once each 24 hour operating period;
  - d. a monitoring device that monitors the water flow rate through the scrubber so that proper operation of the scrubber can be verified;

- e. a temperature measuring device at every hearth. A minimum of one thermocouple shall be installed in each hearth in the cooling and drying zones, and a minimum of two thermocouples shall be installed in each hearth in the combustion zone; and,
- f. a continuous measuring device for measuring fuel flow to the incinerator. Each fuel flow measuring device shall be certified by the manufacturer to have an accuracy of ~~plus/minus~~ 5 percent over its operating range.

3. If the particulate matter emission rate measured during the most recent performance test is less than 0.75 lb/ton, this facility shall not be required to operate continuous monitoring devices for the mass or volume of sludge charged to the incinerator (Condition A.III.2.a), temperature of the hearths (Condition A.III.2.e), and the fuel flow to the incinerator (Condition A.III.2.f).

4. If exempt from continuous monitoring of the mass or volume of sludge per Condition A.III.3, then the facility shall maintain daily records of the amount of sludge charged.

*START*  
*END*  
5. The permittee shall collect a representative grab sample of the sludge fed to the incinerator once per day. The facility shall analyze the sample for volatile solids content and dry sludge content once per day.

6. Unless the permittee is exempt from monitoring fuel flow, temperature, and rate of sludge as noted in Condition A.III.3, the following quality assurance/quality control requirements shall apply:

- a. fuel flow continuous monitoring - quarterly calibration error checks;
- b. temperature continuous monitoring - quarterly calibration error checks; and,
- c. rate of sludge charged to the incinerator continuous monitoring - quarterly calibration error checks.

7. The permittee shall maintain the following monitoring records and retain the following information in its files for a period of not less than five (5) years:

- a. a continuous or daily record of the pressure drop of the gas flow through the scrubber and the 15-minute average of the pressure drop;
- b. a continuous or daily record of the rate of sludge charged to the incinerator according to additional term and condition A.III.2.a;
- c. a daily record of the sludge sampling, dry sludge content, and the volatile solids content of the sludge charged to the incinerator;
- d. a continuous record of the fuel flow to the incinerator;

- e. a continuous record of the temperatures in every hearth of the multiple hearth incinerator;
  - f. a continuous record of the oxygen content of the exhaust gas;
  - g. records of any information that indicate that the requirements of 40 CFR 61 Part E have been met;
  - h. daily records identifying the maximum and minimum value of each operating parameter (e.g. temperature of each hearth in the cooling and drying zones and the combustion zone, combined scrubber pressure drop, scrubber liquid flow range, oxygen content of the incinerator exhaust gas) that is not to be exceeded. These levels are based on the results of the performance test during which compliance was demonstrated; and records of monitoring equipment calibration checks. The information shall be made available to the Director of any authorized representative of the Director, for review during normal business hours.
  - i. A record and report of the fuel flow, total solids and volatile solids content of the sludge charged to the incinerator, and incinerator bed temperature is not required if emissions tests of the incinerator demonstrate that particulate matter (PM) emissions are less than 0.75 pound PM per ton of dry sludge input.
8. Records of emission test results and other data needed to determine total emissions from N001 and N002 of all pollutants listed in this permit shall be retained at the facility and shall be made available for inspection by the Director or a representative of the Ohio EPA for a minimum of five years.
9. The permittee shall maintain daily records of the time periods during which N001 and N002 are in operation.
10. If the permittee determines that it will not submit an annual statement that its sewage sludge does not contain beryllium containing waste as specified in section A.IV.5, the permittee shall comply with all the monitoring and record keeping requirements specified in 40 CFR Part 61, Subpart C for incinerators that process "beryllium containing waste".

#### IV. Reporting Requirements

1. If the average particulate matter emission rate measured during the most recent compliance test exceeds 0.75 lb/ton of dry sludge input, the permittee shall submit to the Canton ~~Local Air Agency~~ semi annually a report in writing which contains the following:
- a. a record of average scrubber pressure drop measurements for each period of 15 minutes duration or more during which the pressure drop of the scrubber was less than, by a percentage specified below, the average scrubber pressure drop measured during the most recent performance test. The percent reduction in scrubber pressure drop for which a report is required shall be determined as follows:

- i. a percent reduction in pressure drop greater than that calculated according to the following equation shall be reported

$$P = 111E+72.15$$

where P = Percent reduction in pressure drop,  
and

E = Average particulate matter emissions  
(kg/mega-gram)

- b. a record of average oxygen content in the incinerator exhaust gas for each period of 1-hour duration or more that the oxygen content of the incinerator exhaust gas exceeds the average oxygen content measured during the most recent performance test by more than 3 percent; and,
  - c. a record of when the incinerator combustion zone temperature falls below a minimum temperature, to be determined during a compliance test in which compliance was demonstrated.
2. If the average particulate matter emission rate measured during the most recent compliance test exceeds 0.75 lb/ton of dry sludge input, the permittee shall include in the semi annual exceedance report (described in term A.IV. 1 above) for each calendar day that an increase in oxygen content of exhaust gas is reported a record of the following:
- a. the scrubber pressure drop average over each one-hour incinerator operating period;
  - b. the oxygen content in the incinerator exhaust over one-hour incinerator operating period;
  - c. the temperature of the incinerator, averaged over one-hour incinerator operating period;
  - d. the rate of sludge charged to the incinerator, averaged over each one-hour incinerator operating period;
  - e. the incinerator fuel use averaged over each eight-hour incinerator operating period; and,
  - f. the moisture and volatile solids content of the daily grab sample of sludge charged to the incinerator.

These semi-annual reports shall be submitted by January 30 and July 30 of each year and shall cover the previous six calendar months (January through June and July through December, respectively.)

- 3. The permittee shall submit exceedance reports for each day during which incinerators N001 and N002 were in continuous operation simultaneously (except during periods of switch over). The report shall include the reasons for the excursion and any actions which were taken to correct the operational infraction.
- 4. Except as provided in section A.IV.5 below, the permittee shall submit an annual statement as part of its annual compliance certification report that indicates that sewage sludge processed in this emissions unit does not contain any "beryllium containing waste," as that term is defined in the Beryllium NESHAP, in 40 CFR Part 61, Subpart C. As the basis for this statement, the permittee shall annually review all of its permitted industrial dischargers to determine if any of the industrial dischargers discharge beryllium containing waste to the City of Canton Water Pollution Control Center in Canton, Ohio.
- 5. If the permittee determines that it will not submit an annual statement that its sewage sludge does not contain beryllium containing waste, the permittee shall notify the Canton local air agency, and, thereafter, the permittee shall be subject to and shall comply with the requirements of 40 CFR Part 61, Subpart C, including the emission limitation of 10 grams of beryllium in a twenty-four hour period. In addition, whenever particulate emission testing is performed for this incinerator, the permittee also shall demonstrate compliance with the emission limitation for beryllium by performing emission testing in accordance with Method 103 or 104 of 40 CFR Part 60, Appendix B.

**V. Testing Requirements**

- 1. Compliance with the emission limitations of this permit shall be determined in accordance with the following:

- a. Emission Limitation

1.3 pounds of particulate matter per ton of dry sludge feed

Applicable Compliance Method

If required, the permittee shall demonstrate compliance using the test methods and equations specified in 40 CFR 60.154.

- b. Emission Limitation

3,200 grams of mercury over a 24-hour period

Applicable Compliance Method

If required, the permittee shall demonstrate compliance using USEPA Method 101A (40 CFR Part 61, Appendix B) and paragraph 61.54 of 40 CFR 61. USEPA Method 29 may also be used to determine maximum emissions over a 24-hour period. Ø

*Paragraph*  
*7. on is 61.54. Part*

an annual sludge sampling test using Method 105 in Appendix B and paragraph 61.54 of 40 CFR 61.

c. Emission Limitation

1.9 lbs VOC/hr.

Applicable Compliance Method

If required, the permittee shall demonstrate compliance using USEPA Method 25A (40 CFR Part 60, Appendix A).

d. Emission Limitation

0.72 lb SO<sub>x</sub>/hr.

Applicable Compliance Method

If required, the permittee shall demonstrate compliance using USEPA Method 6 (40 CFR Part 60, Appendix A).

e. Emission Limitation

8.7 lbs NO<sub>x</sub>/hr.

Applicable Compliance Method

If required, the permittee shall demonstrate compliance using USEPA Method 7 (40 CFR Part 60, Appendix A).

f. Emission Limitation

49.5 lbs CO/hr.

Applicable Compliance Method

If required, the permittee shall demonstrate compliance using USEPA Method 10 (40 CFR Part 60, Appendix A).

g.

Emission Limitation

6.15 tons/year of particulate matter

Applicable Compliance Method

The permittee shall demonstrate compliance by multiplying the NSPS emission limit of 1.3 pounds of PM per ton of dry sludge feed by the actual amount of dry sludge processed per year and divide by 2000 lbs/ton.

k. Emission Limitation

1.29 tons/year of mercury

Applicable Compliance Method

The permittee shall demonstrate compliance by multiplying the NESHAP emission limit of 3200 grams of mercury per 24-hour period by 2.205 E-03 lb/gram, then multiply by 365 days per year, and divide by 2000 lbs/ton.

l. Emission Limitations

8.2 tons/year of VOC  
3.2 tons/year of sulfur dioxide  
38.3 tons/year of nitrogen oxide  
217.0 tons/year of carbon monoxide

Applicable Compliance Method

The ton-per-year limitations were developed by multiplying the lb/hr limitations by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitations.

m. Visible Emission Limitation

Stack emissions, of any gases, discharged into the atmosphere shall not exhibit 20 percent opacity or greater.

Applicable Compliance Method

If required, the permittee shall demonstrate compliance by using USEPA Method 9 (40 CFR Part 60, Appendix A).

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted in accordance with the schedule specified in the permittee's Title V permit.

- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PM, VOC, CO, NOx and SO2.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

For PM, Methods 1-5 of 40 CFR Part 60, Appendix A.

For NOx, Methods 1-4 and 7 or 7E of 40 CFR Part 60, Appendix A.

For SO2, Methods 1-4 and 6 or 6C of 40 CFR Part 60, Appendix A

For CO, Methods 1-4 and 10 of 40 CFR Part 60, Appendix A

For VOC, Methods 1-4 and 18, 25 and/or 25A of 40 CFR Part 60, Appendix A

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted while this emissions unit is operating at or near maximum capacity unless otherwise specified or approved by the Canton APCD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton LAA. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Canton LAA's refusal to accept the results of the emission test(s).

Personnel from the Canton LAA shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Canton LAA within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Canton LAA.

**VI. Miscellaneous Requirements**

1. This incinerator has been upgraded to comply with the wastewater regulations as specified in 40 CFR Part 503. This includes the establishment and monitoring for compliance with a 100 ppmv emission limit for Total Hydrocarbon Concentration as a monthly average of hourly averages, corrected to 0% H<sub>2</sub>O and 7% O<sub>2</sub>. This Air Permit-to-Install does not establish any requirements associated with this wastewater regulation.

**B. State Only Enforceable Section**

**I. 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>
N001 - Municipal sewage sludge Incinerator No. 1	none	none

**2. Additional Terms and Conditions**

2.a none

**II. Operational Restrictions**

none

**III. Monitoring and/or Record keeping Requirements**

none

**IV. Reporting Requirements**

none

**V. Testing Requirements**

none

**VI. Miscellaneous Requirements**

none

**Part III - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)****A. State and Federally Enforceable Section****I. 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>
N002 - Municipal sewage sludge Incinerator No. 2. This emissions unit has a rated capacity of 2,160 pounds-per-hour of dry sludge feed rate. The incinerator is a multiple hearth incinerator. BAT includes the use of a 3-stage impingement tray and six venturi stage scrubbers.	OAC rule 3745-31-05(A) (Modification of PTI 15-1283)	The permittee shall not exceed the following emission limits:  1.9 lbs VOC/hour and 8.2 tons VOC/yr.  0.72 lbs SO <sub>2</sub> /hour and 3.2 tons SO <sub>2</sub> /yr.  8.7 lbs NO <sub>x</sub> /hour and 38.3 tons NO <sub>x</sub> /yr.  49.5 lbs CO/hour and 217 tons CO/yr.  1.29 tons Hg/year  6.15 tons PE/year  See section A.I.2.a.
	OAC rule 3745-17-11(A)	Visible particulate emissions from any stack shall not exceed 20 % opacity as a 6-minute average except as provided by rule.
	OAC rule 3745-17-09(C)	See section A.I.2.b.
	40 CFR Part 61, Subpart C	See section A.I.2.c.
	40 CFR Part 61, Subpart E	3,200 grams Hg/24 hour period
	40 CFR Part 60, Subpart O	1.3 lbs PM/ton dry sludge

OAC rule 3745-17-07  
OAC rule 3745-17-09(B)

The PM and visible emission limitations specified in 40 CFR Part 60, Subpart O are more restrictive than those specified in these rules.

## 2. Additional Terms and Conditions

- 2.a The terms and conditions of this PTI supercede those in PTI 15-01283.
- 2.b This incinerator, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent emissions of objectionable odors.
- 2.c This emissions unit is not subject to the beryllium NESHAP (40 CFR Part 61, Subpart C) because the sewage sludge processed in this emissions unit does not contain any "beryllium containing waste". As defined in 40 CFR Part 61.31(g), "beryllium containing waste" means material contaminated with beryllium and/or beryllium compounds used or generated during any process or operation performed by a source subject to this subpart (40 CFR Part 61, Subpart C). See section A.IV.4.
- 2.d The permittee shall collect a representative grab sample of the sludge fed to the incinerator once per day. The facility shall analyze the sample for volatile solids content and dry sludge content once per day. The permittee shall provide access to the sludge charged so that a well-mixed representative grab sample of the sludge can be obtained.
- 2.e If a subsequent performance test shows PM emissions exceed 0.75 pound per ton of dry sludge, permittee shall use the formulation established in 40 CFR 60.155 (a) (1) (i) to determine the allowable pressure drop range. An exceedance of the pressure drop operating level is considered to have occurred when the pressure drop across the scrubber is less than the minimum acceptable level for a duration of 15 minutes or more in an hour and measured only when the sludge is being charged to the incinerator (i.e., excluding downtime, start-up, and shut-down periods).
- 2.f The average oxygen content of the incinerator exhaust gas for each one-hour incinerator operating period shall not exceed the oxygen content measured during the most recent performance test by more than 3 percent. If the last previous satisfactory performance test showed a particulate matter emission rate of less than 0.75 lb/ton charged, the oxygen content does not have to be maintained below the designated threshold.
- 2.g Every hearth shall be maintained at a temperature to be determined during a performance test in which compliance is demonstrated. The operation of the sewage sludge incinerator shall not exceed the maximum or minimum combustion temperatures (averaged over each one-hour incinerator operating period) as

determined during the performance test of the sludge incinerator. If the last previous satisfactory performance test showed a particulate matter emission rate of less than 0.75 lb/ton charged, the temperature does not have to be monitored and these minimum and maximum limits will not have to be met.

## **II. Operational Restrictions**

1. The permittee shall operate only one of the two multiple hearth sludge incinerators (N001 and N002) at this facility at any one time except during switch over from one incinerator to the other. Consequently, the annual allowable emissions reflect the operation of just one incinerator.

## **III. Monitoring and/or Record keeping Requirements**

1. Mercury shall be monitored, and records maintained, as specified under 40 CFR 61 Subpart E.
2. This facility shall install, calibrate, maintain, and operate the following monitoring devices:
  - a. a flow measuring device which can be used to continuously determine either the mass or volume of sludge charged to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of plus/minus 5 percent over its operating range. The amount of sludge shall be recorded during all periods of operation;
  - b. a monitoring device that continuously measures and records the pressure drop of the gas flow through the wet scrubbing device. Where a combination of wet scrubbers is used in series, the pressure drop of the gas flow through the combined system shall be continuously monitored. The device used to monitor the scrubber pressure drop shall be certified by the manufacturer to be accurate within plus/minus 1 inch water gauge and shall be calibrated on an annual basis in accordance with the manufacturer's instructions;
  - c. a monitoring device that continuously measures and records the oxygen content of the incinerator exhaust gas. The oxygen monitor shall be located upstream of any rabble shaft cooling air inlet into the incinerator exhaust stream, fan, ambient air recirculation damper, or any other source of dilution air. The oxygen monitoring device shall be certified by the manufacturer to have a relative accuracy of plus/minus 5 percent over its operating range and shall be calibrated according to method(s) prescribed by the manufacturer at least once each 24 hour operating period;
  - d. a monitoring device that monitors the water flow rate through the scrubber so that proper operation of the scrubber can be verified;

- e. a temperature measuring device at every hearth. A minimum of one thermocouple shall be installed in each hearth in the cooling and drying zones, and a minimum of two thermocouples shall be installed in each hearth in the combustion zone; and,
  - f. a continuous measuring device for measuring fuel flow to the incinerator. Each fuel flow measuring device shall be certified by the manufacturer to have an accuracy of plus/minus 5 percent over its operating range.
3. If the particulate matter emission rate measured during the most recent performance test is less than 0.75 lb/ton, this facility shall not be required to operate continuous monitoring devices for the mass or volume of sludge charged to the incinerator (Condition A.III.2.a), temperature of the hearths (Condition A.III.2.e), and the fuel flow to the incinerator (Condition A.III.2.f).
4. If exempt from continuous monitoring of the mass or volume of sludge per Condition A.III.3, then the facility shall maintain daily records of the amount of sludge charged.
5. The permittee shall collect a representative grab sample of the sludge fed to the incinerator once per day. The facility shall analyze the sample for volatile solids content and dry sludge content once per day.
6. Unless the permittee is exempt from monitoring fuel flow, temperature, and rate of sludge as noted in Condition A.III.3, the following quality assurance/quality control requirements shall apply:
- a. fuel flow continuous monitoring - quarterly calibration error checks;
  - b. temperature continuous monitoring - quarterly calibration error checks; and,
  - c. rate of sludge charged to the incinerator continuous monitoring - quarterly calibration error checks.
7. The permittee shall maintain the following monitoring records and retain the following information in its files for a period of not less than five (5) years:
- a. a continuous or daily record of the pressure drop of the gas flow through the scrubber and the 15-minute average of the pressure drop;
  - b. a continuous or daily record of the rate of sludge charged to the incinerator according to additional term and condition A.III.2.a;
  - c. a daily record of the sludge sampling, dry sludge content, and the volatile solids content of the sludge charged to the incinerator;
  - d. a continuous record of the fuel flow to the incinerator;

- e. a continuous record of the temperatures in every hearth of the multiple hearth incinerator;
  - f. a continuous record of the oxygen content of the exhaust gas;
  - g. records of any information that indicate that the requirements of 40 CFR 61 Part E has been met;
  - h. daily records identifying the maximum and minimum value of each operating parameter (e.g. temperature of each hearth in the cooling and drying zones and the combustion zone, combined scrubber pressure drop, scrubber liquid flow range, oxygen content of the incinerator exhaust gas) that is not to be exceeded. These levels are based on the results of the performance test during which compliance was demonstrated; and records of monitoring equipment calibration checks. The information shall be made available to the Director or any authorized representative of the Director, for review during normal business hours.
  - i. A record and report of the fuel flow, total solids and volatile solids content of the sludge charged to the incinerator, and incinerator bed temperature is not required if emissions tests of the incinerator demonstrate that particulate matter (PM) emissions are less than 0.75 pound PM per ton of dry sludge input.
8. Records of emission test results and other data needed to determine total emissions from N001 and N002 of all pollutants listed in this permit shall be retained at the facility and shall be made available for inspection by the Director or a representative of the Ohio EPA for a minimum of five years.
9. The permittee shall maintain daily records of the time periods during which N001 and N002 are in operation.
10. If the permittee determines that it will not submit an annual statement that its sewage sludge does not contain beryllium containing waste as specified in section A.IV.5, the permittee shall comply with all the monitoring and record keeping requirements specified in 40 CFR Part 61, Subpart C for incinerators that process "beryllium containing waste".

#### **IV. Reporting Requirements**

1. If the average particulate matter emission rate measured during the most recent compliance test exceeds 0.75 lb/ton of dry sludge input, the permittee shall submit to the Canton Local Air Agency semi annually a report in writing which contains the following:
- a. a record of average scrubber pressure drop measurements for each period of 15 minutes duration or more during which the pressure drop of the scrubber was less than, by a percentage specified below, the average scrubber pressure drop measured during the most recent performance test. The percent reduction in scrubber pressure drop for which a report is required shall be determined as follows:

- i. a percent reduction in pressure drop greater than that calculated according to the following equation shall be reported

$$P = 111E+72.15$$

where P = Percent reduction in pressure drop,

and

E = Average particulate matter emissions  
(kg/mega-gram)

- b. a record of average oxygen content in the incinerator exhaust gas for each period of 1-hour duration or more that the oxygen content of the incinerator exhaust gas exceeds the average oxygen content measured during the most recent performance test by more than 3 percent; and,
  - c. a record of when the incinerator combustion zone temperature falls below a minimum temperature, to be determined during a compliance test in which compliance was demonstrated.
2. If the average particulate matter emission rate measured during the most recent compliance test exceeds 0.75 lb/ton of dry sludge input, the permittee shall include in the semi annual exceedance report (described in term A.IV. 1 above) for each calendar day that an increase in oxygen content of exhaust gas is reported a record of the following:
- a. the scrubber pressure drop average over each one- hour incinerator operating period;
  - b. the oxygen content in the incinerator exhaust over one-hour incinerator operating period;
  - c. the temperature of the incinerator, averaged over one-hour incinerator operating period;
  - d. the rate of sludge charged to the incinerator, averaged over each one-hour incinerator operating period;
  - e. the incinerator fuel use averaged over each eight-hour incinerator operating period; and,
  - f. the moisture and volatile solids content of the daily grab sample of sludge charged to the incinerator.

These semi-annual reports shall be submitted by January 30 and July 30 of each year and shall cover the previous six calendar months (January through June and July through December, respectively.)

3. The permittee shall submit exceedance reports for each day during which incinerators N001 and N002 were in continuous operation simultaneously (except during periods of switch over). The report shall include the reasons for the excursion and any actions which were taken to correct the operational infraction.
4. Except as provided in section A.IV.5 below, the permittee shall submit an annual statement as part of its annual compliance certification report that indicates that sewage sludge processed in this emissions unit does not contain any "beryllium containing waste," as that term is defined in the Beryllium NESHAP, in 40 CFR Part 61, Subpart C. As the basis for this statement, the permittee shall annually review all of its permitted industrial dischargers to determine if any of the industrial dischargers discharge beryllium containing waste to the City of Canton Water Pollution Control Center in Canton, Ohio.
5. If the permittee determines that it will not submit an annual statement that its sewage sludge does not contain beryllium containing waste, the permittee shall notify the Canton local air agency, and, thereafter, the permittee shall be subject to and shall comply with the requirements of 40 CFR Part 61, Subpart C, including the emission limitation of 10 grams of beryllium in a twenty-four hour period. In addition, whenever particulate emission testing is performed for this incinerator, the permittee also shall demonstrate compliance with the emission limitation for beryllium by performing emission testing in accordance with Method 103 or 104 of 40 CFR Part 60, Appendix B.

## **V. Testing Requirements**

1. Compliance with the emission limitations of this permit shall be determined in accordance with the following:
  - a. Emission Limitation  
  
1.3 pounds of particulate matter per ton of dry sludge feed  
  
Applicable Compliance Method  
  
If required, the permittee shall demonstrate compliance using the test methods and equations specified in 40 CFR 60.154.
  - b. Emission Limitation  
  
3,200 grams of mercury over a 24-hour period  
  
Applicable Compliance Method  
  
If required, the permittee shall demonstrate compliance using USEPA Method 101A (40 CFR Part 61, Appendix B) and paragraph 61.54 of 40 CFR 61. USEPA Method 29 may also be used to determine maximum emissions over a 24-hour period. Or

an annual sludge sampling test using Method 105 in Appendix B and paragraph 61.54 of 40 CFR 61.

c. Emission Limitation

1.9 lbs VOC/hr

Applicable Compliance Method

If required, the permittee shall demonstrate compliance using USEPA Method 25A (40 CFR Part 60, Appendix A).

d. Emission Limitation

0.72 lb SO<sub>x</sub>/hr.

Applicable Compliance Method

If required, the permittee shall demonstrate compliance using USEPA Method 6 (40 CFR Part 60, Appendix A).

e. Emission Limitation

8.7 lbs NO<sub>x</sub>/hr.

Applicable Compliance Method

If required, the permittee shall demonstrate compliance using USEPA Method 7 (40 CFR Part 60, Appendix A).

f. Emission Limitation

49.5 lbs CO/hr.

Applicable Compliance Method

If required, the permittee shall demonstrate compliance using USEPA Method 10 (40 CFR Part 60, Appendix A).

g. Emission Limitation

6.15 tons/year of particulate matter

Applicable Compliance Method

The permittee shall demonstrate compliance by multiplying the NSPS emission limit of 1.3 pounds of PM per ton of dry sludge feed by the actual amount of dry sludge processed per year and, divide by 2000 lbs/ton.

h. Emission Limitation

1.29 tons year of mercury

Applicable Compliance Method

The permittee shall demonstrate compliance by multiplying the NESHAP emission limit of 3200 grams of mercury per 24-hour period by 2.205 E-03 lb/gram, then multiply by 365 days per year, and divide by 2000 lbs/ton.

i. Emission Limitations

8.2 tons/year of VOC  
3.2 tons/year of sulfur dioxide  
38.3 tons/year of nitrogen oxide  
217.0 tons/year of carbon monoxide

Applicable Compliance Method

The ton per year limitations were developed by multiplying the lb/hr limitations by the maximum operating schedule of 8760 hrs/yr, and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitations, compliance will also be shown with the annual limitations.

j. Visible Emission Limitation

Stack emissions, of any gases, discharged into the atmosphere shall not exhibit 20 percent opacity or greater.

Applicable Compliance Method

If required, the permittee shall demonstrate compliance by using USEPA Method 9 (40 CFR Part 60, Appendix A).

2. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
  - a. The emission testing shall be conducted in accordance with the schedule specified in the permittee's Title V permit.

- b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PM, VOC, CO, NO<sub>x</sub> and SO<sub>2</sub>.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

For PM, Methods 1-5 of 40 CFR Part 60, Appendix A.

For NO<sub>x</sub>, Methods 1-4 and 7 or 7E of 40 CFR Part 60, Appendix A.

For SO<sub>2</sub>, Methods 1-4 and 6 or 6C of 40 CFR Part 60, Appendix A

For CO, Methods 1-4 and 10 of 40 CFR Part 60, Appendix A

For VOC, Methods 1-4 and 18, 25 and/or 25A of 40 CFR Part 60, Appendix A

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted while this emissions unit is operating at or near maximum capacity unless otherwise specified or approved by the Canton APCD.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Canton LAA. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Canton LAA's refusal to accept the results of the emission test(s).

Personnel from the Canton LAA shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Canton LAA within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Canton LAA.

**VI. Miscellaneous Requirements**

1. This incinerator has been upgraded to comply with the wastewater regulations as specified in 40 CFR Part 503. This includes the establishment and monitoring for compliance with a 100 ppmv emission limit for Total Hydrocarbon Concentration as a monthly average of hourly averages, corrected to 0% H<sub>2</sub>O and 7% O<sub>2</sub>. This Air Permit-to-Install does not establish any requirements associated with this wastewater regulation.

**B. State Only Enforceable Section**

**I. 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>
N002 - Municipal Sewage sludge Incinerator No. 2	none	none

**2. Additional Terms and Conditions**

2.a none

**II. Operational Restrictions**

none

**III. Monitoring and/or Record keeping Requirements**

none

**IV. Reporting Requirements**

none

**V. Testing Requirements**

none

**VI. Miscellaneous Requirements**

none