

Facility ID: 1431070944 Issuance type: Title V Draft Permit

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part III" and before "I. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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## Part II - Specific Facility Terms and Conditions

### a State and Federally Enforceable Section

1. Within 120 days after promulgation of 40 CFR, Part 63, Subpart VVV, the permittee shall submit an Initial Notification Report which certifies whether or not the permittee is subject to the promulgated standard. If the permittee is subject to the final standard, the following information shall also be included in the Initial Notification Report:
  - a. The name and mailing address of the permittee;
  - b. The physical location of the source if it is different from the mailing address;
  - c. Identification of the relevant MACT standard and the permittee's compliance date;
  - d. A brief description of the nature, design, size, and method of operation of the source, including the operating design capacity and an identification of each emission point of each hazardous air pollutant; and
  - e. A statement of whether or not the permittee is a major source or an area source according to the promulgated MACT.
 

Within 60 days following completion of the required compliance determination activity specified in the 40 CFR, Part 63, Subpart VVV, the permittee shall submit a notification of compliance status that contains the following information:

    - a. The methods used to determine compliance;
    - b. The results of any performance tests, opacity or visible emission observations, continuous monitoring systems (CMS) performance evaluations, and/or other monitoring procedures or methods that were conducted;
    - c. The methods that will be used for determining compliance, including a description of the monitoring and reporting requirements and test methods;
    - d. The type and quantity of hazardous air pollutants emitted by the source, reported in units and averaging times in according with the test methods specified in 40 CFR, Part 63, Subpart VVV;
    - e. An analysis demonstrating whether the affected source is a major source or an area source;
      - f. A description of the air pollution control equipment or method of each emission point, including each control device or method for each hazardous air pollutant and the control efficiency (percent) for each control device or method; and
      - g. A statement as to whether or not the permittee has complied with the requirements of 40 CFR, Part 63, Subpart VVV.

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### b State Only Enforceable Section

1. The following insignificant emission units are located at this facility:

B012 Three 9.25 MMBTU/Hr Gas/Oil Fired Boilers  
 B017 8 MMBTU/Hr Oil Fired Boiler  
 B023 Boiler, Thickener Building  
 B024 Boiler, RAS Building  
 B025 5.23 MMBTU/Hr Oil Fired Boiler  
 B027 5.7 MMBTU/Hr Natural Gas Fired Boiler  
 B028 5.7 MMBTU/Hr Natural Gas Fired Boiler  
 P004 Diesel Emergency Generator  
 T001 6,500 Gallon Polymer Tank  
 T002 6,500 Gallon Polymer Tank  
 T004 5,000 Gallon Fuel Oil Tank  
 T006 158,600 Gallon #2 Fuel Oil Storage Tank  
 T012 2,500 Gallon Waste Oil Storage Tank

T013 22,000 Gallon Polymer Storage Tank

T014 22,500 Gallon Polymer Storage Tank

T015 14,000 Gallon Polymer Storage Tank

T016 25,000 Gallon Polymer Storage Tank

T017 Cationic Polyacrylamide Storage Tank

T018 12,000 Gallon Ferric Chloride Storage Tank

T019 12,000 Gallon Ferric Chloride Storage Tank

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a Permit to Install for the emissions unit.

- [Go to Part III for Emissions Unit B021](#)
- [Go to Part III for Emissions Unit B022](#)
- [Go to Part III for Emissions Unit N001](#)
- [Go to Part III for Emissions Unit N002](#)
- [Go to Part III for Emissions Unit N003](#)
- [Go to Part III for Emissions Unit N004](#)
- [Go to Part III for Emissions Unit N006](#)
- [Go to Part III for Emissions Unit N007](#)

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**Part III - Terms and Conditions for Emissions Units**

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Facility ID: 1431070944 Emissions Unit ID: B021 Issuance type: Title V Draft Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
25.1 MMBTU/Hr Natural Gas/Digester Gas/ #2 Fuel Oil Boiler	OAC 3745-31-05 (PTI 14-710)	See T&C A.I.2. and A.II.
	OAC 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except as specified by rule.
	OAC 3745-17-10(B)(1)	0.020 LB PM/MMBTU of actual heat input.*
	OAC 3745-18-06(D)	*The Lb/MMBTU particulate emission limitation is greater than the emissions unit's potential to emit. Therefore, no daily record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limit. The emission limitation specified in OAC 3745-18-06 (D) is less stringent than that established under OAC 3745-31-05 (PTI 14-710).

**2. Additional Terms and Conditions**

- a. The SO2 emissions from this emissions unit shall not exceed 0.25 LB/MMBTU of actual heat input (based on a monthly average).
- b. The total combined SO2 emissions from emissions units B021 and B022 shall not exceed 39 TPY based on a rolling, twelve-month summation.

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**II. Operational Restrictions**

1. The permittee shall burn only natural gas, digester gas, and/or number two fuel oil in this emissions unit.
2. The quality of the oil burned in emissions unit B021 shall have a combination of sulfur content and heat content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.25 pound of SO2/MMBTu actual heat input (based on a monthly average).  
  
Compliance with the above-mentioned specifications shall be determined by using analytical results provided by the permittee or oil supplier for each shipment of oil.
3. All digester gas used in emissions unit B021 shall come from sludge that was treated with metal salts prior to entering the digester. The metal salts employed shall result in the reduction of sulfur equivalent to at least 850 pounds per day of ferrous chloride. The daily average hydrogen sulfide content of the digester gas shall not exceed 870 ppm as fired.

Alternate sulfur removal technology which achieves sulfur dioxide emission reduction equivalent to the metal salts treatment may be employed with the approval of the Ohio EPA.

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### III. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns a fuel other than natural gas, digester gas, and/or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall collect a weekly grab sample of the digester gas sent to emissions units B021 and B022 to be burned. The samples shall be analyzed in accordance with the appropriate ASTM methods to determine the heat content in BTU per standard cubic foot and the density in lbs/standard cubic foot.
3. The permittee shall operate and maintain existing equipment to continuously monitor and record the hydrogen sulfide concentration of the digester gas combusted in this emissions unit in PPM. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR, Part 60.13.
 

The permittee shall maintain records of all data obtained by the continuous hydrogen sulfide monitoring system including, but not limited to, parts per million hydrogen sulfide on an instantaneous (one-minute) basis, the daily average hydrogen sulfide concentration, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments. The daily average hydrogen sulfide concentration shall be used to determine the decimal fraction of sulfur for purposes of determining compliance with the sulfur dioxide emission limitation.
4. The permittee shall perform or require the supplier to perform analyses for sulfur content and heat content for each shipment of fuel oil received in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.
5. The permittee shall collect and record the following information on a monthly basis:
  - a. the total quantity, in cubic feet, of natural gas burned;
  - b. the total quantity, in cubic feet, of digester gas burned;
  - c. the average decimal fraction of sulfur in the digester gas;
  - d. the average heat content of the digester gas in Btu per standard cubic foot;
  - e. the average density, in lbs per standard cubic foot, of digester gas;
  - f. the total amount of #2 fuel oil burned, in gallons;
  - g. the average heat content, in Btu per gallon of #2 fuel oil, of each shipment;
  - h. the average decimal fraction of sulfur in each shipment of #2 fuel oil;
  - i. the average sulfur dioxide emission rate in lbs SO<sub>2</sub>/MMBTU of actual heat input [this calculation shall be based on equations specified in OAC 3745-18-04(G)\*];
  - j. the monthly SO<sub>2</sub> emission rate in tons per month [this calculation shall be based on equations specified in OAC 3745-18-04(G)]; and
  - k. the total combined SO<sub>2</sub> emissions from B021 and B022 in TPY, based on a rolling, twelve-month summation.

\*Per 3745-18-04(G)(4), the SO<sub>2</sub> emitted from the combustion of natural gas is negligible.

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### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, digester gas, and/or number two fuel oil was burned in this emissions unit.
2. The permittee shall submit deviation (excursion) reports for any record(s) indicating an exceedance of the following limitations:
  - a. the daily average hydrogen sulfide concentration of 870 PPM for digester gas;
  - b. the SO<sub>2</sub> emission limitation of 0.25 lb/MMBtu of actual heat input (based on a monthly average); and
  - c. the SO<sub>2</sub> emission limitation of 39 TPY based on a rolling, twelve-month summation;

These reports shall include the amount of the standard, the actual concentrations and/or emissions, the duration of the exceedance, and any corrective actions taken.

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### V. Testing Requirements

1. Compliance with the visible emission limitation in Section A.I.1. of these terms and conditions shall be determined by methods specified in OAC rule 3745-17-03(B)(1).
2. Compliance with the SO<sub>2</sub> emission limitations specified in Section A.I.2. of these terms and conditions shall be determined by the monitoring, recordkeeping, and reporting requirements of these terms and conditions, or by emission testing using Method 6 or 6C of 40 CFR, Part 60, Appendix A.
3. Compliance with the hydrogen sulfide concentration limitation specified in Section A.II.3. of these terms and conditions shall be determined by the monitoring, recordkeeping, and reporting requirements of these terms

and conditions.

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VI. **Miscellaneous Requirements**

1. If probable cause exists indicating this emissions unit is causing or contributing to a nuisance in violation of Ohio Administrative Code rule 3475-15-07, the owner or operator of this emissions unit shall be required to submit and implement a control program which will bring this emissions unit into compliance.

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Facility ID: 1431070944 Emissions Unit ID: B021 Issuance type: Title V Draft Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
25.1 MMBTU/Hr Natural Gas/Digester Gas/ #2 Fuel Oil Boiler		

2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None

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**Part III - Terms and Conditions for Emissions Units**

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**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
25.1 MMBTU/Hr Natural Gas/Digester Gas/ #2 Fuel Oil Boiler	OAC 3745-31-05 (PTI 14-710)	See T&C A.I.2. and A.II.
	OAC 3745-17-07(A)(1)	Visible particulate emissions shall not exceed 20% opacity, as a six-minute average, except as specified by rule.
	OAC 3745-17-10(B)(1)	0.020 LB PM/MMBTU of actual heat input.*
	OAC 3745-18-06(D)	*The Lb/MMBTU particulate emission limitation is greater than the emissions unit's potential to emit. Therefore, no daily record keeping, deviation reporting, or compliance method calculations are required to demonstrate compliance with this limit. The emission limitation specified in OAC 3745-18-06 (D) is less stringent than that established under OAC 3745-31-05 (PTI 14-710).

**2. Additional Terms and Conditions**

- a. The SO2 emissions from this emissions unit shall not exceed 0.25 LB/MMBTU of actual heat input (based on a monthly average).
- b. The total combined SO2 emissions from emissions units B021 and B022 shall not exceed 39 TPY based on a rolling, twelve-month summation.

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**II. Operational Restrictions**

1. The permittee shall burn only natural gas, digester gas, and/or number two fuel oil in this emissions unit.
2. The quality of the oil burned in emissions unit B022 shall have a combination of sulfur content and heat content which is sufficient to comply with the allowable sulfur dioxide emission limitation of 0.25 pound of SO2/MMBTu actual heat input (based on a monthly average).  
  
Compliance with the above-mentioned specifications shall be determined by using analytical results provided by the permittee or oil supplier for each shipment of oil.
3. All digester gas used in emissions unit B022 shall come from sludge that was treated with metal salts prior to entering the digester. The metal salts employed shall result in the reduction of sulfur equivalent to at least 850 pounds per day of ferrous chloride. The daily average hydrogen sulfide content of the digester gas shall not exceed 870 ppm as fired.  
  
Alternate sulfur removal technology which achieves sulfur dioxide emission reduction equivalent to the metal salts treatment may be employed with the approval of the Ohio EPA.

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

1. For each day during which the permittee burns a fuel other than natural gas, digester gas, and/or number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall collect a weekly grab sample of the digester gas sent to emissions units B021 and B022 to be burned. The samples shall be analyzed in accordance with the appropriate ASTM methods to determine the heat content in BTU per standard cubic foot and the density in lbs/standard cubic foot.
3. The permittee shall operate and maintain existing equipment to continuously monitor and record the hydrogen sulfide concentration of the digester gas combusted in this emissions unit in PPM. Such continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR, Part 60.13.  
  
The permittee shall maintain records of all data obtained by the continuous hydrogen sulfide monitoring system including, but not limited to, parts per million hydrogen sulfide on an instantaneous (one-minute) basis, the daily average hydrogen sulfide concentration, results of daily zero/span calibration checks, and magnitude of manual calibration adjustments. The daily average hydrogen sulfide concentration shall be used to determine the decimal fraction of sulfur for purposes of determining compliance with the sulfur dioxide emission limitation.
4. The permittee shall perform or require the supplier to perform analyses for sulfur content and heat content for each shipment of fuel oil received in accordance with the following ASTM methods: ASTM method D4294, ASTM method D240, or ASTM method 6010 for sulfur content; and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.
5. The permittee shall collect and record the following information on a monthly basis:
  - a. the total quantity, in cubic feet, of natural gas burned;
  - b. the total quantity, in cubic feet, of digester gas burned;
  - c. the average decimal fraction of sulfur in the digester gas;
  - d. the average heat content of the digester gas in Btu per standard cubic foot;
  - e. the average density, in lbs per standard cubic foot, of digester gas;
  - f. the total amount of #2 fuel oil burned, in gallons;
  - g. the average heat content, in Btu per gallon of #2 fuel oil, of each shipment;
  - h. the average decimal fraction of sulfur in each shipment of #2 fuel oil;
  - i. the average sulfur dioxide emission rate in lbs SO<sub>2</sub>/MMBTU of actual heat input [this calculation shall be based on equations specified in OAC 3745-18-04(G)\*];
  - j. the monthly SO<sub>2</sub> emission rate in tons per month [this calculation shall be based on equations specified in OAC 3745-18-04(G)]; and
  - k. the total combined SO<sub>2</sub> emissions from B021 and B022 in TPY, based on a rolling, twelve-month summation.

\*Per 3745-18-04(G)(4), the SO<sub>2</sub> emitted from the combustion of natural gas is negligible.

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#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas, digester gas, and/or number two fuel oil was burned in this emissions unit.
2. The permittee shall submit deviation (excursion) reports for any record(s) indicating an exceedance of the following limitations:
  - a. the daily average hydrogen sulfide concentration of 870 PPM for digester gas;
  - b. the SO<sub>2</sub> emission limitation of 0.25 lb/MMBtu of actual heat input (based on a monthly average); and
  - c. the SO<sub>2</sub> emission limitation of 39 TPY based on a rolling, twelve-month summation;

These reports shall include the amount of the standard, the actual concentrations and/or emissions, the duration of the exceedance, and any corrective actions taken.

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#### V. Testing Requirements

1. Compliance with the visible emission limitation in Section A.I.1. of these terms and conditions shall be determined by methods specified in OAC rule 3745-17-03(B)(1).
2. Compliance with the SO<sub>2</sub> emission limitations specified in Section A.I.2. of these terms and conditions shall be determined by the monitoring, recordkeeping, and reporting requirements of these terms and conditions, or by emission testing using Method 6 or 6C of 40 CFR, Part 60, Appendix A.
3. Compliance with the hydrogen sulfide concentration limitation specified in Section A.II.3. of these terms and conditions shall be determined by the monitoring, recordkeeping, and reporting requirements of these terms and conditions.

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#### VI. Miscellaneous Requirements

1. If probable cause exists indicating this emissions unit is causing or contributing to a nuisance in violation of Ohio Administrative Code rule 3475-15-07, the owner or operator of this emissions unit shall be required to

submit and implement a control program which will bring this emissions unit into compliance.

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**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
25.1 MMBTU/Hr Natural Gas/Digester Gas/ #2 Fuel Oil Boiler		

2. **Additional Terms and Conditions**
  1. None

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**II. Operational Restrictions**

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

1. None

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**IV. Reporting Requirements**

1. None

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**V. Testing Requirements**

1. None

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**VI. Miscellaneous Requirements**

1. None

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**Part III - Terms and Conditions for Emissions Units**

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Facility ID: 1431070944 Emissions Unit ID: N001 Issuance type: Title V Draft Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

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

- 1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
18,800 LBS/HR Sewage Sludge Incinerator w/ Wet Scrubber	40 CFR 61, Subpart E	3200 grams mercury/24-hour period
-	OAC 3745-17-07(A)	Visible particulate emissions shall not exceed 20% percent opacity, as a six-minute average, except as specified by rule.
-	OAC 3745-17-09(B)	0.10 pound PM per one hundred pounds of liquid, semi-solid, or solid refuse and salvageable material charged
-	40 CFR, Part 503	See A.I.2.

**2. Additional Terms and Conditions**

- a. This emission unit is subject to the applicable provisions of the Standards for the Use or Disposal of Sewage Sludge as promulgated by the United States Environmental Protection Agency under 40 CFR, Part 503, Subpart E, which applies to facilities that incinerate sewage sludge.

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**II. Operational Restrictions**

- 1. The pressure drop across the scrubber shall be continuously maintained at a value of not less than 70% of the average pressure drop during the most recent stack test which demonstrated compliance with the particulate emission limitation listed in A.I.1. Compliance with this limitation shall be based on an hourly average (the time period encompassing the startup and shutdown of the incinerator shall not be counted towards this hourly average).
- 2. The scrubber water flow rate shall be continuously maintained at a value not less than the average flow rate during the most recent stack test which demonstrated compliance with the particulate emission limitation listed in A.I.1. Compliance with this limitation shall be based on an hourly average of the gallons per minute flow rate.

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

- 1. The permittee shall properly install, operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.  
  
The permittee shall collect and record the following information each day:
  - a. the average hourly pressure drop across the scrubber, in inches of water;
  - b. the average hourly scrubber water flow rate, in gallons per minute; and
  - c. the operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

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**IV. Reporting Requirements**

- 1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the levels specified in A.II.:
  - a. the static pressure drop across the scrubber; and

- b. the scrubber water flow rate.

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V. **Testing Requirements**

1. The permittee shall conduct, or have conducted, a sludge analysis in accordance with the following requirements:
  - a. The sludge analysis shall be conducted annually.
  - b. The sludge analysis shall be conducted to demonstrate compliance with the allowable mass emission rate for mercury of 3200 grams per 24-hour period.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): 40 CFR, section 61.54. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the sludge analysis.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the testing procedures provide a valid characterization of the emissions from the mercury emissions.

A comprehensive written report on the results of the sludge analysis shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

2. Compliance with the opacity limitation in Section A.I. of these terms and conditions shall be determined by methods specified in OAC rule 3745-17-03(B)(3).
3. The permittee shall conduct, or have conducted, emission testing for emissions units N001, N002, N003, and N004, in accordance with the following requirements:
  - a. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit expiration. The emissions testing shall be conducted for emissions units N001, N002, N003 and N004 on a rotating basis.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate emissions specified in A.I.1.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Method 5 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 the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. The sludge feed rate during the test shall be recorded.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

1. This emissions unit shall be designed, operated, and maintained so as to prevent the emission of objectionable odors.

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Facility ID: 1431070944 Emissions Unit ID: N001 Issuance type: Title V Draft Permit

#### B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
18,800 LBS/HR Sewage Sludge Incinerator	OAC 3745-31-05 (PTI #14-987)	1.1 lbs PM per ton of dry sludge 5.0 lbs NOx per ton of dry sludge

See B.I.2.

#### 2. Additional Terms and Conditions

2. The total, combined mass emissions from emissions units N001, N002, N003, N004, N006, and N007 shall not exceed the following:

PM 60.8 TPY  
SO<sub>2</sub> 44.2 TPY  
NO<sub>x</sub> 276.5 TPY  
VOC 115.02 TPY  
HCl 16.6 TPY  
Hg 1.3 TPY

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#### II. Operational Restrictions

1. The total combined dry sludge feed to emissions units N001, N002, N003, N004, N006, and N007 shall not exceed 303 tons per day.

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#### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall install, maintain, calibrate and operate a flow measuring device which can be used to continuously determine the mass (lbs) of sludge charged to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of plus or minus 5 percent over its operating range. The permittee shall determine and record the daily total (tons) of dry sludge fed to emissions units N001, N002, N003, N004, N006, and N007.
2. This facility shall provide access to the sludge charged so that a well mixed representative grab sample of the sludge can be obtained. Each day, this facility shall collect a representative grab sample of the sludge to be incinerated. The sludge sample shall be analyzed using the appropriate ASTM methods to determine the dry solids content and the volatile solids content.

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#### IV. Reporting Requirements

1. The permittee shall submit semi-annual reports that identify any exceedances of the sludge throughput limitation, as well as corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 and July 31 of each year.

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#### V. Testing Requirements

1. Compliance with the particulate emission limitation in Section B.I. of these terms and conditions shall be

determined in accordance with the testing requirements in Section A.V.3. of these terms and conditions.

2. The permittee shall conduct, or have conducted, emission testing for emissions units N001, N002, N003, and N004, in accordance with the following requirements:
  - a. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit expiration. The emissions testing shall be conducted for emissions units N001, N002, N003 and N004 on a rotating basis.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for the NOx emission limitation specified in B.1.1.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for NOx, Method 7 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 the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. The sludge feed rate during the test shall be recorded.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

3. Compliance with the annual NOx emission limit shall be determined by multiplying the emission rate determined during the most recent stack test (lb NOx/ton of dry sludge) by the tons of dry sludge incinerated during the previous 12 months.
4. Compliance with the VOC emission limitation shall be determined by multiplying the amount of sludge incinerated, in tons, by 1.6 lbs/ton (emission factor from AP-42, Table 2.2-1, January, 1995).
5. Compliance with the SO2 emission limitation shall be determined by multiplying the amount of sludge incinerated, in tons, by 0.2 lb/ton (emission factor from AP-42, Table 2.2-1, January, 1995).
6. Compliance with the HCl emission limitation shall be determined by multiplying the amount of sludge incinerated, in tons, by 0.02 lb/ton (emission factor from AP-42, Table 2.2-2, January, 1995).
7. Compliance with the Hg emission limitation shall be determined in accordance with the testing requirements in Section A.V. of these terms and conditions.

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#### VI. Miscellaneous Requirements

1. None

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Facility ID: 1431070944 Emissions Unit ID: N002 Issuance type: Title V Draft Permit

#### A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<b>Operations, Property, and/or Equipment</b>	<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
18,800 LBS/HR Sewage Sludge Incinerator w/ Wet Scrubber	40 CFR 61, Subpart E	3200 grams mercury/24 hour period
-	OAC 3745-17-07(A)	Visible particulate emissions shall not exceed 20% percent opacity, as a six-minute average, except as specified by rule.
-	OAC 3745-17-09(B)	0.10 pound PM per one hundred pounds of liquid, semi-solid, or solid refuse and salvageable material charged
-	40 CFR, Part 503	See A.I.2.
<b>2. Additional Terms and Conditions</b>		
a.	This emission unit is subject to the applicable provisions of the Standards for the Use or Disposal of Sewage Sludge as promulgated by the United States Environmental Protection Agency under 40 CFR, Part 503, Subpart E, which applies to facilities that incinerate sewage sludge.	

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#### II. Operational Restrictions

1. The pressure drop across the scrubber shall be continuously maintained at a value of not less than 70% of the average pressure drop during the most recent stack test which demonstrated compliance with the particulate emission limitation listed in A.I.1. Compliance with this limitation shall be based on an hourly average (the time period encompassing the start up and shutdown of the incinerator shall not be counted towards this hourly average).
2. The scrubber water flow rate shall be continuously maintained at a value not less than the average flow rate during the most recent stack test which demonstrated compliance with the particulate emission limitation listed in A.I.1. Compliance with this limitation shall be based on an hourly average of the gallons per minute flow rate.

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#### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. the average hourly pressure drop across the scrubber, in inches of water;
- b. the average hourly scrubber water flow rate, in gallons per minute; and
- c. the operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

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#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the levels specified in A.II.:
  - a. the static pressure drop across the scrubber; and
  - b. the scrubber water flow rate.

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#### V. Testing Requirements

1. The permittee shall conduct, or have conducted, a sludge analysis in accordance with the following requirements:
  - a. The sludge analysis shall be conducted annually.
  - b. The sludge analysis shall be conducted to demonstrate compliance with the allowable mass emission rate for mercury of 3200 grams per 24 hour period.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass

emission rate(s): 40 CFR, section 61.54. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the sludge analysis.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the testing procedures provide a valid characterization of the emissions from the mercury emissions.

A comprehensive written report on the results of the sludge analysis shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

2. Compliance with the opacity limitation in Section A.I. of these terms and conditions shall be determined by methods specified in OAC rule 3745-17-03(B)(3).
3. The permittee shall conduct, or have conducted, emission testing for emissions units N001, N002, N003, and N004, in accordance with the following requirements:
  - a. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit expiration. The emissions testing shall be conducted for emissions units N001, N002, N003 and N004 on a rotating basis.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate emissions specified in A.I.1.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Method 5 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 the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. The sludge feed rate during the test shall be recorded.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

1. This emissions unit shall be designed, operated, and maintained so as to prevent the emission of objectionable odors.

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Facility ID: 1431070944 Emissions Unit ID: N002 Issuance type: Title V Draft Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
18,800 LBS/HR Sewage Sludge Incinerator	OAC 3745-31-05 (PTI #14-987)	1.1 lbs PM per ton of dry sludge 5.0 lbs NOx per ton of dry sludge  See B.I.2.

2. **Additional Terms and Conditions**

2. The total, combined mass emissions from emissions units N001, N002, N003, N004, N006, and N007 shall not exceed the following:

PM 60.8 TPY  
SO2 44.2 TPY  
NOx 276.5 TPY  
VOC 115.02 TPY  
HCl 16.6 TPY  
Hg 1.3 TPY

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II. **Operational Restrictions**

1. The total combined dry sludge feed to emissions units N001, N002, N003, N004, N006, and N007 shall not exceed 303 tons per day.

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

1. The permittee shall install, maintain, calibrate and operate a flow measuring device which can be used to continuously determine the mass (lbs) of sludge charged to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of plus or minus 5 percent over its operating range. The permittee shall determine and record the daily total (tons) of sludge fed to emissions units N001, N002, N003, N004, N006, and N007.
2. This facility shall provide access to the sludge charged so that a well mixed representative grab sample of the sludge can be obtained. Each day, this facility shall collect a representative grab sample of the sludge to be incinerated. The sludge sample shall be analyzed using the appropriate ASTM methods to determine the dry solids content and the volatile solids content.

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IV. **Reporting Requirements**

1. The permittee shall submit semi-annual reports that identify any exceedances of the sludge throughput limitation, as well as corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 and July 31 of each year.

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V. **Testing Requirements**

1. Compliance with the particulate emission limitation in Section B.I. of these terms and conditions shall be determined in accordance with the testing requirements in Section A.V.3. of these terms and conditions.
2. The permittee shall conduct, or have conducted, emission testing for emissions units N001, N002, N003, and N004, in accordance with the following requirements:
- The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit expiration. The emissions testing shall be conducted for emissions units N001, N002, N003 and N004 on a rotating basis.
  - The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for the NOx emission limitation specified in B.I.1.
  - The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for NOx, Method 7 of 40 CFR, Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
  - The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity,

unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. The sludge feed rate during the test shall be recorded.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s). Personnel from the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

3. Compliance with the annual NOx emission limit shall be determined by multiplying the emission rate determined during the most recent stack test (lb NOx/ton of dry sludge) by the tons of sludge incinerated during the previous 12 months.
4. Compliance with the VOC emission limitation shall be determined by multiplying the amount of sludge incinerated, in tons, by 1.6 lbs/ton (emission factor from AP-42, Table 2.2-1, January, 1995).
5. Compliance with the SO2 emission limitation shall be determined by multiplying the amount of sludge incinerated, in tons, by 0.2 lb/ton (emission factor from AP-42, Table 2.2-1, January, 1995).
6. Compliance with the HCl emission limitation shall be determined by multiplying the amount of sludge incinerated, in tons, by 0.02 lb/ton (emission factor from AP-42, Table 2.2-2, January, 1995).
7. Compliance with the Hg emission limitation shall be determined in accordance with the testing requirements in Section A.V. of these terms and conditions.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1431070944 Emissions Unit ID: N003 Issuance type: Title V Draft Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
18,800 LBS/HR Sewage Sludge Incinerator w/ Wet Scrubber	40 CFR 61, Subpart E	3200 grams mercury/24 hour period
-	OAC 3745-17-07(A)	Visible particulate emissions shall not exceed 20% percent opacity, as a six-minute average, except as specified by rule.
-	OAC 3745-17-09(B)	0.10 pound PM per one hundred pounds of liquid, semi-solid, or solid refuse and salvageable material charged
-	40 CFR, Part 503	See A.I.2.

2. **Additional Terms and Conditions**

- a. This emission unit is subject to the applicable provisions of the Standards for the Use or Disposal of Sewage Sludge as promulgated by the United States Environmental Protection Agency under 40 CFR, Part 503, Subpart E, which applies to facilities that incinerate sewage sludge.

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#### II. Operational Restrictions

1. The pressure drop across the scrubber shall be continuously maintained at a value of not less than 70% of the average pressure drop during the most recent stack test which demonstrated compliance with the particulate emission limitation listed in A.I.1. Compliance with this limitation shall be based on an hourly average (the time period encompassing the start up and shutdown of the incinerator shall not be counted towards this hourly average).
2. The scrubber water flow rate shall be continuously maintained at a value not less than the average flow rate during the most recent stack test which demonstrated compliance with the particulate emission limitation listed in A.I.1. Compliance with this limitation shall be based on an hourly average of the gallons per minute flow rate.

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#### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall properly install, operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. the average hourly pressure drop across the scrubber, in inches of water;
- b. the average hourly scrubber water flow rate, in gallons per minute; and
- c. the operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

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#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the levels specified in A.II.:
  - a. the static pressure drop across the scrubber; and
  - b. the scrubber water flow rate.

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#### V. Testing Requirements

1. The permittee shall conduct, or have conducted, a sludge analysis in accordance with the following requirements:
  - a. The sludge analysis shall be conducted annually.
  - b. The sludge analysis shall be conducted to demonstrate compliance with the allowable mass emission rate for mercury of 3200 grams per 24 hour period.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): 40 CFR, section 61.54. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the sludge analysis.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the testing procedures provide a valid characterization of the emissions from the mercury emissions.

A comprehensive written report on the results of the sludge analysis shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

2. Compliance with the opacity limitation in Section A.I. of these terms and conditions shall be determined by methods specified in OAC rule 3745-17-03(B)(3).
3. The permittee shall conduct, or have conducted, emission testing for emissions units N001, N002, N003, and N004, in accordance with the following requirements:
  - a. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit expiration. The emissions testing shall be conducted for emissions units N001, N002, N003 and N004 on a rotating basis.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate emissions specified in A.I.1.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Method 5 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 the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. The sludge feed rate during the test shall be recorded.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s). Personnel from the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

1. This emissions unit shall be designed, operated, and maintained so as to prevent the emission of objectionable odors.

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Facility ID: 1431070944 Emissions Unit ID: N003 Issuance type: Title V Draft Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
18,800 LBS/HR Sewage Sludge Incinerator	OAC 3745-31-05 (PTI #14-987)	1.1 lbs PM per ton of dry sludge 5.0 lbs NOx per ton of dry sludge

See B.I.2.

2. **Additional Terms and Conditions**

2. The total, combined mass emissions from emissions units N001, N002, N003, N004, N006, and N007 shall

not exceed the following:

PM 60.8 TPY  
 SO<sub>2</sub> 44.2 TPY  
 NO<sub>x</sub> 276.5 TPY  
 VOC 115.02 TPY  
 HCl 16.6 TPY  
 Hg 1.3 TPY

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**II. Operational Restrictions**

1. The total combined dry sludge feed to emissions units N001, N002, N003, N004, N006, and N007 shall not exceed 303 tons per day.

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

1. The permittee shall install, maintain, calibrate and operate a flow measuring device which can be used to continuously determine the mass (lbs) of sludge charged to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of plus or minus 5 percent over its operating range. The permittee shall determine and record the daily total (tons) of dry sludge fed to emissions units N001, N002, N003, N004, N006, and N007.
2. This facility shall provide access to the sludge charged so that a well mixed representative grab sample of the sludge can be obtained. Each day, this facility shall collect a representative grab sample of the sludge to be incinerated. The sludge sample shall be analyzed using appropriate ASTM methods to determine the dry solids content and the volatile solids content.

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**IV. Reporting Requirements**

1. The permittee shall submit semi-annual reports that identify any exceedances of the sludge throughput limitation, as well as corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 and July 31 of each year.

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**V. Testing Requirements**

1. Compliance with the particulate emission limitation in Section B.I. of these terms and conditions shall be determined in accordance with the testing requirements in Section A.V.3. of these terms and conditions.
2. The permittee shall conduct, or have conducted, emission testing for emissions units N001, N002, N003, and N004, in accordance with the following requirements:
  - a. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit expiration. The emissions testing shall be conducted for emissions units N001, N002, N003 and N004 on a rotating basis.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for the NO<sub>x</sub> emission limitation specified in B.1.1.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for NO<sub>x</sub>, Method 7 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 the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. The sludge feed rate during the test shall be recorded.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District

Office or local air agency.

3. Compliance with the annual NOx emission limit shall be determined by multiplying the emission rate determined during the most recent stack test (lb NOx/ton of dry sludge) by the tons of dry sludge incinerated during the previous 12 months.
4. Compliance with the VOC emission limitation shall be determined by multiplying the amount of sludge incinerated, in tons, by 1.6 lbs/ton (emission factor from AP-42, Table 2.2-1, January, 1995).
5. Compliance with the SO2 emission limitation shall be determined by multiplying the amount of sludge incinerated, in tons, by 0.2 lb/ton (emission factor from AP-42, Table 2.2-1, January, 1995).
6. Compliance with the HCl emission limitation shall be determined by multiplying the amount of sludge incinerated, in tons, by 0.02 lb/ton (emission factor from AP-42, Table 2.2-2, January, 1995).
7. Compliance with the Hg emission limitation shall be determined in accordance with the testing requirements in Section A.V. of these terms and conditions.

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VI. **Miscellaneous Requirements**

1. None

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**Facility ID: 1431070944 Emissions Unit ID: N004 Issuance type: Title V Draft Permit**

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
18,800 LBS/HR Sewage Sludge Incinerator w/ Wet Scrubber	40 CFR 61, Subpart E	3200 grams mercury/24 hour period
-	OAC 3745-17-07(A)	Visible particulate emissions shall not exceed 20% percent opacity, as a six-minute average, except as specified by rule.
-	OAC 3745-17-09(B)	0.10 pound PM per one hundred pounds of liquid, semi-solid, or solid refuse and salvageable material charged
-	40 CFR, Part 503	See A.I.2.

2. **Additional Terms and Conditions**

- a. This emission unit is subject to the applicable provisions of the Standards for the Use or Disposal of Sewage Sludge as promulgated by the United States Environmental Protection Agency under 40 CFR, Part 503, Subpart E, which applies to facilities that incinerate sewage sludge.

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II. **Operational Restrictions**

1. The pressure drop across the scrubber shall be continuously maintained at a value of not less than 70% of the average pressure drop during the most recent stack test which demonstrated compliance with the particulate emission limitation listed in A.I.1. Compliance with this limitation shall be based on an hourly average (the time period encompassing the start up and shutdown of the incinerator shall not be counted towards this hourly average).
2. The scrubber water flow rate shall be continuously maintained at a value not less than the average flow rate

during the most recent stack test which demonstrated compliance with the particulate emission limitation listed in A.I.1. Compliance with this limitation shall be based on an hourly average of the gallons per minute flow rate.

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

1. The permittee shall properly install, operate and maintain equipment to continuously monitor the static pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The monitoring devices and any recorders shall be installed, calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manuals.

The permittee shall collect and record the following information each day:

- a. the average hourly pressure drop across the scrubber, in inches of water;
- b. the average hourly scrubber water flow rate, in gallons per minute; and
- c. the operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.

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**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the levels specified in A.II.:
  - a. the static pressure drop across the scrubber; and
  - b. the scrubber water flow rate.

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**V. Testing Requirements**

1. The permittee shall conduct, or have conducted, a sludge analysis in accordance with the following requirements:
  - a. The sludge analysis shall be conducted annually.
  - b. The sludge analysis shall be conducted to demonstrate compliance with the allowable mass emission rate for mercury of 3200 grams per 24 hour period.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): 40 CFR, section 61.54. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the sludge analysis.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the testing procedures provide a valid characterization of the emissions from the mercury emissions.

A comprehensive written report on the results of the sludge analysis shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

2. Compliance with the opacity limitation in Section A.I. of these terms and conditions shall be determined by methods specified in OAC rule 3745-17-03(B)(3).
3. The permittee shall conduct, or have conducted, emission testing for emissions units N001, N002, N003, and N004, in accordance with the following requirements:
  - a. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit expiration. The emissions testing shall be conducted for emissions units N001, N002, N003 and N004 on a rotating basis.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for particulate emissions specified in A.I.1.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Method 5 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 the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. The sludge feed rate during the test shall be recorded.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s). Personnel from the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

1. This emissions unit shall be designed, operated, and maintained so as to prevent the emission of objectionable odors.

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Facility ID: 1431070944 Emissions Unit ID: N004 Issuance type: Title V Draft Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
18,800 LBS/HR Sewage Sludge Incinerator	OAC 3745-31-05 (PTI #14-987)	1.1 lbs PM per ton of dry sludge 5.0 lbs NOx per ton of dry sludge

See B.I.2.

2. **Additional Terms and Conditions**

2. The total, combined mass emissions from emissions units N001, N002, N003, N004, N006, and N007 shall not exceed the following:

PM 60.8 TPY  
SO2 44.2 TPY  
NOx 276.5 TPY  
VOC 115.02 TPY  
HCl 16.6 TPY  
Hg 1.3 TPY

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II. **Operational Restrictions**

1. The total combined dry sludge feed to emissions units N001, N002, N003, N004, N006, and N007 shall not exceed 303 tons per day.

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

1. The permittee shall install, maintain, calibrate and operate a flow measuring device which can be used to continuously determine the mass (lbs) of sludge charged to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of plus or minus 5 percent over its operating range. The permittee shall determine and record the daily total (tons) of dry sludge fed to emissions units N001, N002, N003, N004, N006, and N007.
2. This facility shall provide access to the sludge charged so that a well mixed representative grab sample of the sludge can be obtained. Each day, this facility shall collect a representative grab sample of the sludge to be incinerated. The sludge sample shall be analyzed using appropriate ASTM methods to determine the dry solids content and the volatile solids content.

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**IV. Reporting Requirements**

1. The permittee shall submit semi-annual reports that identify any exceedances of the sludge throughput limitation, as well as corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 and July 31 of each year.

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**V. Testing Requirements**

1. Compliance with the particulate emission limitation in Section B.I. of these terms and conditions shall be determined in accordance with the testing requirements in Section A.V.3. of these terms and conditions.
2. The permittee shall conduct, or have conducted, emission testing for emissions units N001, N002, N003, and N004, in accordance with the following requirements:

a. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit expiration. The emissions testing shall be conducted for emissions units N001, N002, N003 and N004 on a rotating basis.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for the NOx emission limitation specified in B.I.1.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for NOx, Method 7 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 the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. The sludge feed rate during the test shall be recorded.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

3. Compliance with the annual NOx emission limit shall be determined by multiplying the emission rate determined during the most recent stack test (lb NOx/ton of dry sludge) by the tons of dry sludge incinerated during the previous 12 months.
4. Compliance with the VOC emission limitation shall be determined by multiplying the amount of sludge incinerated, in tons, by 1.6 lbs/ton (emission factor from AP-42, Table 2.2-1, January, 1995).
5. Compliance with the SO2 emission limitation shall be determined by multiplying the amount of sludge incinerated, in tons, by 0.2 lb/ton (emission factor from AP-42, Table 2.2-1, January, 1995).
6. Compliance with the HCl emission limitation shall be determined by multiplying the amount of sludge incinerated, in tons, by 0.02 lb/ton (emission factor from AP-42, Table 2.2-2, January, 1995).
7. Compliance with the Hg emission limitation shall be determined in accordance with the testing requirements in Section A.V. of these terms and conditions.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1431070944 Emissions Unit ID: N006 Issuance type: Title V Draft Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
18,800 LBS/HR Sewage Sludge Incinerator w/ Wet Scrubber	40 CFR, Part 60, Subpart O	1.30 pounds PM per ton of dry sludge input  Visible particulate emissions shall not exceed 20% percent opacity, as a six-minute average, except as specified by rule.
-	40 CFR, Part 61, Subpart E	3200 grams mercury/24-hour period
-	OAC 3745-17-07(A)	The opacity restriction established by this rule is less stringent than the opacity restriction established by 40 CFR, Part 60, Subpart O.
-	OAC 3745-17-09(B)	The particulate emission limitation restriction established by this rule is less stringent than the particulate emission limitation established by 40 CFR, Part 60, Subpart O.
-	40 CFR, Part 503	See A.I.2.

**2. Additional Terms and Conditions**

- a. This emission unit is subject to the applicable provisions of the Standards for the Use or Disposal of Sewage Sludge as promulgated by the United States Environmental Protection Agency under 40 CFR, Part 503, Subpart E, which applies to facilities that incinerate sewage sludge.

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II. **Operational Restrictions**

1. The pressure drop across the scrubber shall be continuously maintained at a value of not less than 70% of the average pressure drop during the most recent stack test which demonstrated compliance with the particulate emission limitation listed in A.I.1. Compliance with this limitation shall be based on an hourly average (the time period encompassing the start up and shutdown of the incinerator shall not be counted towards this hourly average).
2. The scrubber water flow rate shall be continuously maintained at a value not less than the average flow rate during the most recent stack test which demonstrated compliance with the PM emission limitation listed in A.I.1. Compliance with this limitation shall be based on an hourly average of the gallons per minute flow rate.
3. The average hourly oxygen content of the exhaust gas shall not exceed the average hourly oxygen content measured during the most recent stack test by more than 3 percent.

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

1. The permittee shall install, calibrate, maintain, and operate a flow measuring device which can be used to continuously determine and record the mass (lbs) of sludge charged to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of plus or minus 5 percent over its operating range.
2. The permittee shall properly install, operate and maintain equipment to continuously monitor and record the static pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The device used to monitor scrubber pressure drop shall be certified by the manufacturer to be accurate within plus or minus 1 inch water gauge and shall be calibrated on an annual basis in accordance with the manufacturer's instructions.  
  
The permittee shall collect and record the following information each day:
  - a. the average hourly pressure drop across the scrubber, in inches of water;
  - b. the average hourly scrubber water flow rate, in gallons per minute; and
  - c. the operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
3. The permittee shall install, calibrate, maintain, and operate a monitoring device that continuously measures the oxygen content of the incinerator exhaust gas. The permittee shall record the average hourly oxygen content. The oxygen monitor shall be located upstream of any rabble shaft cooling air inlet into the incinerator exhaust gas 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 or 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.
4. The permittee shall install, calibrate, maintain, and operate temperature measuring devices at every hearth. The permittee shall record the average hourly temperature in each 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. Each temperature measuring device shall be certified by the manufacturer to have an accuracy of plus or minus 5 percent over its operating range.
5. The permittee shall install, calibrate, maintain, and operate a device for continuously measuring the fuel flow to the incinerator. The permittee shall record the average hourly fuel flow to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of plus or minus 5 percent over its operating range.
6. This facility shall provide access to the sludge charged so that a well mixed representative grab sample of the sludge can be obtained. Each day, this facility shall collect a representative grab sample of the sludge to be incinerated. The sludge sample shall be analyzed using appropriate ASTM methods to determine the dry solids content and the volatile solids content.

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#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:
  - a. the static pressure drop across the scrubber; and
  - b. the scrubber water flow rate.
2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the average hourly oxygen content in the incinerator exhaust gas exceeded the average hourly oxygen content measured during the most recent stack test by more than 3 percent.

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#### V. Testing Requirements

1. The permittee shall conduct, or have conducted, a sludge analysis in accordance with the following requirements:
  - a. The sludge analysis shall be conducted annually.
  - b. The sludge analysis shall be conducted to demonstrate compliance with the allowable mass emission rate for mercury of 3200 grams per 24 hour period.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): 40 CFR part 61.54. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the sludge analysis.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the

test(s), examine the testing equipment, and acquire data and information necessary to ensure that the testing procedures provide a valid characterization of the mercury emissions.

A comprehensive written report on the results of the sludge analysis shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

2. Compliance with the opacity limitation in Section A.I. of these terms and conditions shall be determined in accordance with OAC rule 3745-17-03(B)(3).
3. The permittee shall conduct, or have conducted, emission testing for emissions unit N006 or N007 in accordance with the following requirements:
  - a. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit renewal. The emissions testing shall be conducted for emissions units N006 and N007 on a rotating basis.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PM specified in A.I.1.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Method 5 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 the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. The sludge feed rate during the test shall be recorded.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s). Personnel from the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

1. This emissions unit shall be designed, operated, and maintained so as to prevent the emission of objectionable odors.

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Facility ID: 1431070944 Emissions Unit ID: N006 Issuance type: Title V Draft Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
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18,800 LBS/HR Sewage Sludge Incinerator OAC 3745-31-05  
(PTI #14-987)

1.1 lbs PM per ton of dry sludge  
5.0 lbs NOx per ton of dry sludge

See B.I.2.

**2. Additional Terms and Conditions**

2. The total, combined mass emissions from emissions units N001, N002, N003, N004, N006, and N007 shall not exceed the following:

PM 60.8 TPY  
SO2 44.2 TPY  
NOx 276.5 TPY  
VOC 115.02 TPY  
HCl 16.6 TPY  
Hg 1.3 TPY

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**II. Operational Restrictions**

1. The total combined dry sludge feed to emissions units N001, N002, N003, N004, N006, and N007 shall not exceed 303 tons per day.

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

1. None

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**IV. Reporting Requirements**

1. The permittee shall submit semi-annual reports that identify any exceedances of the sludge throughput limitation, as well as corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 and July 31 of each year.

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**V. Testing Requirements**

1. Compliance with the particulate emission limitation in Section B.I. of these terms and conditions shall be determined in accordance with the testing requirements in Section A.V.3. of these terms and conditions.
2. The permittee shall conduct, or have conducted, emission testing for emissions unit N006 and N007 in accordance with the following requirements:
- The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit expiration. The emissions testing shall be conducted for emissions units N006 and N007 on a rotating basis.
  - The emission testing shall be conducted to demonstrate compliance with the NOx emission limitation specified in B.I.1.
  - The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for NOx, Method 7 of 40 CFR, Part 60, Appendix A. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
  - The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. The sludge feed rate during the test shall be recorded.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s). Personnel from the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

3. The permittee shall conduct, or have conducted, emission testing for emissions unit N006 and N007 in accordance with the following requirements:
  - a. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit expiration. The emissions testing shall be conducted for emissions units N006 and N007 on a rotating basis.
  - b. The emission testing shall be conducted to determine the emission rate for VOC.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for VOC, Method 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 the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. The sludge feed rate during the test shall be recorded.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s). Personnel from the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

4. Compliance with the annual VOC, NO<sub>x</sub>, and PM emission limits shall be determined by multiplying the emission rate determined during the most recent stack test (lb/ton of dry sludge) by the tons of dry sludge incinerated during the previous 12 months.
5. Compliance with the SO<sub>2</sub> emission limitation shall be determined by multiplying the amount of sludge incinerated, in tons, by 0.2 lb/ton (emission factor from AP-42, Table 2.2-1, January, 1995).
6. Compliance with the HCl emission limitation shall be determined by multiplying the amount of sludge incinerated, in tons, by 0.02 lb/ton (emission factor from AP-42, Table 2.2-2, January, 1995).
7. Compliance with the Hg emission limitation shall be determined in accordance with the testing requirements in Section A.V. of these terms and conditions.

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VI. **Miscellaneous Requirements**

1. None

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**Facility ID: 1431070944 Emissions Unit ID: N007 Issuance type: Title V Draft Permit**

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

**Applicable Emissions Limitations/Control**

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Measures</u>
18,800 LBS/HR Sewage Sludge Incinerator w/ Wet Scrubber	40 CFR, Part 60, Subpart O	1.30 pounds PM per ton of dry sludge input  Visible particulate emissions shall not exceed 20% percent opacity, as a six-minute average, except as specified by rule.
-	40 CFR, Part 61, Subpart E	3200 grams mercury/24 hour period
-	OAC 3745-17-07(A)	The opacity restriction established by this rule is less stringent than the opacity restriction established by 40 CFR 60, Subpart O.
-	OAC 3745-17-09(B)	The particulate emission limitation restriction established by this rule is less stringent than the particulate emission limitation established by 40 CFR, Part 60, Subpart O.
-	40 CFR, Part 503	See A.I.2.
<b>2. Additional Terms and Conditions</b>		
a.	This emission unit is subject to the applicable provisions of the Standards for the Use or Disposal of Sewage Sludge as promulgated by the United States Environmental Protection Agency under 40 CFR, Part 503, Subpart E, which applies to facilities that incinerate sewage sludge.	

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#### II. Operational Restrictions

- The pressure drop across the scrubber shall be continuously maintained at a value of not less than 70% of the average pressure drop during the most recent stack test which demonstrated compliance with the particulate emission limitation listed in A.I.1. Compliance with this limitation shall be based on an hourly average (the time period encompassing the start up and shutdown of the incinerator shall not be counted towards this hourly average).
- The scrubber water flow rate shall be continuously maintained at a value not less than the average flow rate during the most recent stack test which demonstrated compliance with the PM emission limitation listed in A.I.1. Compliance with this limitation shall be based on an hourly average of the gallons per minute flow rate.
- The average hourly oxygen content of the exhaust gas shall not exceed the average hourly oxygen content measured during the most recent stack test by more than 3 percent.

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#### III. Monitoring and/or Record Keeping Requirements

- The permittee shall install, calibrate, maintain, and operate a flow measuring device which can be used to continuously determine and record the mass (lbs) of sludge charged to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of plus or minus 5 percent over its operating range.
- The permittee shall properly install, operate and maintain equipment to continuously monitor and record the static pressure drop across the scrubber and the scrubber water flow rate while the emissions unit is in operation. The device used to monitor scrubber pressure drop shall be certified by the manufacturer to be accurate within plus or minus 1 inch water gauge and shall be calibrated on an annual basis in accordance with the manufacturer's instructions.  
  
The permittee shall collect and record the following information each day:
  - the average hourly pressure drop across the scrubber, in inches of water;
  - the average hourly scrubber water flow rate, in gallons per minute, and;
  - the operating times for the capture (collection) system, control device, monitoring equipment, and the associated emissions unit.
- The permittee shall install, calibrate, maintain, and operate a monitoring device that continuously measures the oxygen content of the incinerator exhaust gas. The permittee shall record the average hourly oxygen content. The oxygen monitor shall be located upstream of any rabble shaft cooling air inlet into the incinerator exhaust gas 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 or 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.
- The permittee shall install, calibrate, maintain, and operate temperature measuring devices at every hearth. The permittee shall record the average hourly temperature in each 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. Each temperature measuring device shall be certified by the manufacturer to have an accuracy of plus or minus 5 percent over its operating range.
- The permittee shall install, calibrate, maintain, and operate a device for continuously measuring the fuel flow to the incinerator. The permittee shall record the average hourly fuel flow to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of plus or minus 5 percent

over its operating range.

6. This facility shall provide access to the sludge charged so that a well mixed representative grab sample of the sludge can be obtained. Each day, this facility shall collect a representative grab sample of the sludge to be incinerated. The sludge sample shall be analyzed in accordance with the appropriate ASTM methods to determine the dry solids content and the volatile solids content.

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#### IV. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained at or above the required levels:
  - a. the static pressure drop across the scrubber; and
  - b. the scrubber water flow rate.
2. The permittee shall submit deviation (excursion) reports that identify all periods of time during which the average hourly oxygen content in the incinerator exhaust gas exceeded the average hourly oxygen content measured during the most recent stack test by more than 3 percent.

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#### V. Testing Requirements

1. The permittee shall conduct, or have conducted, a sludge analysis in accordance with the following requirements:
  - a. The sludge analysis shall be conducted annually.
  - b. The sludge analysis shall be conducted to demonstrate compliance with the allowable mass emission rate for mercury of 3200 grams per 24 hour period.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): 40 CFR part 61.54. Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the sludge analysis.

Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the testing procedures provide a valid characterization of the mercury emissions.

A comprehensive written report on the results of the sludge analysis shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

2. Compliance with the opacity limitation in Section A.I. of these terms and conditions shall be determined in accordance with OAC rule 3745-17-03(B)(3).
3. The permittee shall conduct, or have conducted, emission testing for emissions unit N006 or N007 in accordance with the following requirements:
  - a. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit renewal. The emissions testing shall be conducted for emissions units N006 and N007 on a rotating basis.
  - b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rate for PM specified in A.I.1.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for particulates, Method 5 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 the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. The sludge feed rate during the test shall be recorded.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

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VI. **Miscellaneous Requirements**

1. This emissions unit shall be designed, operated, and maintained so as to prevent the emission of objectionable odors.

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Facility ID: 1431070944 Emissions Unit ID: N007 Issuance type: Title V Draft Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

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

1. The specific operation(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 employed. Additional applicable emissions limitations and/or control measures (if any) may 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>
18,800 LBS/HR Sewage Sludge Incinerator	OAC 3745-31-05 (PTI #14-987)	1.1 lbs PM per ton of dry sludge 5.0 lbs NOx per ton of dry sludge

See B.I.2.

2. **Additional Terms and Conditions**

2. The total, combined mass emissions from emissions units N001, N002, N003, N004, N006, and N007 shall not exceed the following:

PM 60.8 TPY  
SO2 44.2 TPY  
NOx 276.5 TPY  
VOC 115.02 TPY  
HCl 16.6 TPY  
Hg 1.3 TPY

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II. **Operational Restrictions**

1. The total combined dry sludge feed to emissions units N001, N002, N003, N004, N006, and N007 shall not exceed 303 tons per day.

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

1. None

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IV. **Reporting Requirements**

1. The permittee shall submit semi-annual reports that identify any exceedances of the sludge throughput limitation, as well as corrective actions that were taken to achieve compliance. These reports shall be submitted by January 31 and July 31 of each year.

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**V. Testing Requirements**

1. Compliance with the PM emission limitation in Section B.1. of these terms and conditions shall be determined in accordance with the testing requirements in Section A.V.3. of these terms and conditions.
2. The permittee shall conduct, or have conducted, emission testing for emissions unit N006 and N007 in accordance with the following requirements:

a. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit expiration. The emissions testing shall be conducted for emissions units N006 and N007 on a rotating basis.

b. The emission testing shall be conducted to demonstrate compliance with the NO<sub>x</sub> emission limitation specified in B.1.1.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for NO<sub>x</sub>, Method 7 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 the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. The sludge feed rate during the test shall be recorded.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

3. The permittee shall conduct, or have conducted, emission testing for emissions unit N006 and N007 in accordance with the following requirements:

a. The emission testing shall be conducted within 6 months after permit issuance, approximately 2.5 years after permit issuance and within 6 months prior to permit expiration. The emissions testing shall be conducted for emissions units N006 and N007 on a rotating basis.

b. The emission testing shall be conducted to determine the emission rate for VOC.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s): for VOC, Method 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 the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. The sludge feed rate during the test shall be recorded.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. 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 Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

Personnel from the appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency 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 appropriate Ohio EPA District Office or local air agency.

4. Compliance with the annual VOC, NO<sub>x</sub>, and PM emission limits shall be determined by multiplying the emission rate determined during the most recent stack test (lb/ton of dry sludge) by the tons of dry sludge incinerated during the previous 12 months.

5. Compliance with the SO<sub>2</sub> emission limitation shall be determined by multiplying the amount of sludge incinerated, in tons, by 0.2 lb/ton (emission factor from AP-42, Table 2.2-1, January, 1995).
6. Compliance with the HCl emission limitation shall be determined by multiplying the amount of sludge incinerated, in tons, by 0.02 lb/ton (emission factor from AP-42, Table 2.2-2, January, 1995).
7. Compliance with the Hg emission limitation shall be determined in accordance with the testing requirements in Section A.V. of these terms and conditions.

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VI. **Miscellaneous Requirements**

1. None