

12/29/2011

Certified Mail

Mr. Tracy Mills
Canton Water Reclamation Facility
3530 Central Avenue, S.E
Canton, OH 44707-1338

Facility ID: 1576000806
Permit Number: P0106668
County: Stark

RE: FINAL AIR POLLUTION CONTROL TITLE V PERMIT
Permit Type: Renewal

Dear Permit Holder:

Enclosed is the Title V permit that allows you to operate the facility in the manner indicated in the permit. Because this permit may contain several conditions and restrictions, we urge you to read it carefully. Please complete a survey at www.epa.ohio.gov/dapc/permitsurvey.aspx and give us feedback on your permitting experience. We value your opinion.

The issuance of this Title V permit is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Josh Mandel," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

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

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. If you have any questions regarding this permit, please contact the Canton City Health Department. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,



Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA Region 5 Via E-Mail Notification
Canton City Health Department



FINAL

**Division of Air Pollution Control
Title V Permit
for
Canton Water Reclamation Facility**

Facility ID:	1576000806
Permit Number:	P0106668
Permit Type:	Renewal
Issued:	12/29/2011
Effective:	1/19/2012
Expiration:	1/19/2017



Division of Air Pollution Control
Title V Permit
for
Canton Water Reclamation Facility

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Authorization

Facility ID: 1576000806
Facility Description: Publicly owned treatment works for the treatment of a combined municipal and industrial wastewater flow.
Application Number(s): A0032724, A0032725, A0039751, A0043030
Permit Number: P0106668
Permit Description: Publicly Owned Treatment Works for the treatment of a combined municipal and industrial wastewater flow. This Title V permit renewal covers two sludge incinerators equipped with venturi scrubbers for emissions controls.
Permit Type: Renewal
Issue Date: 12/29/2011
Effective Date: 1/19/2012
Expiration Date: 1/19/2017
Superseded Permit Number: P0100969

This document constitutes issuance of an OAC Chapter 3745-77 Title V permit to:

Canton Water Reclamation Facility
3530 Central Avenue, S.E
Canton, OH 44707-1338

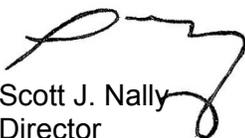
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Canton City Health Department
420 Market Avenue
Canton, OH 44702-1544
(330)489-3385

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Canton City Health Department. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months (540 days) and no later than 6 months (180 days) prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency


Scott J. Nally
Director

A. Standard Terms and Conditions

1. Federally Enforceable Standard Terms and Conditions

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
- (1) Standard Term and Condition A. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions
 - (2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions
 - (3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting
 - (4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

(Authority for term: ORC 3704.036(A))

2. Monitoring and Related Record Keeping and Reporting Requirements

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
- (1) The date, place (as defined in the permit), and time of sampling or measurements.
 - (2) The date(s) analyses were performed.
 - (3) The company or entity that performed the analyses.
 - (4) The analytical techniques or methods used.
 - (5) The results of such analyses.
 - (6) The operating conditions existing at the time of sampling or measurement.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))

- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))

c) The permittee shall submit required reports in the following manner:

- (1) All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year in accordance with Standard Term and Condition A.2.c)(2) below; and each report shall cover the previous calendar quarter. An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c).

In accordance with OAC rule 3745-15-06, a malfunction reportable under OAC rule 3745-15-06(B) is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- (2) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit or, in some cases, in section B. Facility-Wide Terms and Conditions of this Title V permit), all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive

measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement satisfies the reporting requirements specified in this Standard Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy (for the deviations so reported) the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this Standard Term and Condition.

See A.29 below if no deviations occurred during the quarter.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- (3) All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with Standard Term and Condition A.2)c)(2) above shall be submitted in the following manner:

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) above shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by permit or rule for the

insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with Standard Term and Condition A.2.c)(2) above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))

- (4) Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."

(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))

- (5) Reports of any required monitoring and/or record keeping information shall be submitted to Canton City Health Department.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

3. Scheduled Maintenance

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in Standard Term and Condition A.2.c)(1) above.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

4. Risk Management Plans

If applicable, the permittee shall develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq. ("Act"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:

- a) a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or
- b) as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

(Authority for term: OAC rule 3745-77-07(A)(4))

5. Title IV Provisions

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

(Authority for term: OAC rule 3745-77-07(A)(5))

6. Severability Clause

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

(Authority for term: OAC rule 3745-77-07(A)(6))

7. General Requirements

- a) The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with Standard Term and Condition A.11 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.
- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the

Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

- f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:
- (1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or a combination of (1) and (2) above.

The permittee shall continue to comply with all applicable OAC Chapter 3745-31 requirements for all regulated air contaminant sources once this permit ceases to be enforceable. The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))

8. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.

(Authority for term: OAC rule 3745-77-07(A)(8))

9. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

(Authority for term: OAC rule 3745-77-07(A)(9))

10. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these standard terms and conditions shall apply to all operating scenarios authorized in this permit.

(Authority for term: OAC rule 3745-77-07(A)(10))

11. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a) Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b) This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c) The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d) The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))

12. Federal and State Enforceability

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

(Authority for term: OAC rule 3745-77-07(B))

13. Compliance Requirements

- a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

- (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c) The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
- (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:
- (1) Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted (i.e., postmarked) on or before April 30th of each year during the permit term.
 - (2) Compliance certifications shall include the following:
 - a. An identification of each term or condition of this permit that is the basis of the certification.
 - b. The permittee's current compliance status.
 - c. Whether compliance was continuous or intermittent.
 - d. The method(s) used for determining the compliance status of the source currently and over the required reporting period.
 - e. Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
 - (3) Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.

(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))

14. Permit Shield

- a) Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
- b) This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

(Authority for term: OAC rule 3745-77-07(F))

15. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

(Authority for term: OAC rules 3745-77-07(H)(1) and (2))

16. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

(Authority for term: OAC rule 3745-77-07(G))

17. Off-Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a) The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.

- b) The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.
- c) The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).
- d) The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.
- e) The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit-to-install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(Authority for term: OAC rule 3745-77-07(I))

18. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

(This term is provided for informational purposes only.)

19. Insignificant Activities or Emissions Levels

Each IEU that has one or more applicable requirements shall comply with those applicable requirements.

(Authority for term: OAC rule 3745-77-07(A)(1))

20. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-07(A)(1))

21. Air Pollution Nuisance

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

(Authority for term: OAC rule 3745-77-07(A)(1))

22. Permanent Shutdown of an Emissions Unit

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification from the responsible official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the responsible official that the emissions unit was permanently shut down.

After the date on which an emissions unit is permanently shut down (i.e., that has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31 and therefore ceases to meet the definition of an "emissions unit" as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any Title V permit requirements applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

No emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-01)

23. Title VI Provisions

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.
- b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.
- c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

(Authority for term: OAC rule 3745-77-01(H)(11))

24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only

The permittee shall submit required reports in the following manner:

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

25. Records Retention Requirements Under State Law Only

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

26. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

(Authority for term: OAC rule 3745-77-07(C))

27. Scheduled Maintenance/Malfunction Reporting

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

28. Permit Transfers

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

(Authority for term: OAC rule 3745-77-01(C))

29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

- a) where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in Standard Term and Condition A.2.c)(2); or
- b) where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; or
- c) where the company's responsible official has certified that an emissions unit has been permanently shut down.

B. Facility-Wide Terms and Conditions

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
 - a) None.
2. The following insignificant emissions units at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within the identified permit to install for the emissions unit. The insignificant emissions units listed below are subject to one or more applicable requirement contained in a permit-to-install or in the SIP-approved versions of OAC Chapters 3745-17, 3745-18 and 3745-21 and/or 40 CFR Part 60 or 63:
 - a) None.
3. The following emissions units contained in this permit are subject to New Source Performance Standards (NSPS) 40 CFR Part 60, Subpart O, and National Emissions Standards for Hazardous Air Pollution (NESHAP) 40 CFR Part 61 Subpart E: N001 and N002. The complete NSPS and NESHAP requirements, including the NSPS and NESHAP General Provisions, may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the Canton City Health Department, Air Pollution Control Division.
4. Pursuant to 40 CFR Part 64, the permittee has submitted and the Canton City Health Department, Air Pollution Control Division has approved a compliance assurance monitoring (CAM) plan for emissions units N001 and N002 at this facility. The permittee shall comply with the provisions of the plan during any operation of the aforementioned emissions units.

C. Emissions Unit Terms and Conditions



1. Emissions Unit Group -Incinerators: N001,N002

EU ID	Operations, Property and/or Equipment Description
N001	Incinerator No. 1: Municipal sewage sludge multiple-hearth incinerator with a rated capacity of 2160 pounds per hour of dry sludge feed rate. BAT emission controls include the use of a scrubber containing a three-stage impingement tray and venturi stage.
N002	Incinerator No. 2: Municipal sewage sludge multiple-hearth incinerator with a rated capacity of 2160 pounds per hour of dry sludge feed rate. BAT emission controls include the use of a scrubber containing a three-stage impingement tray and venturi stage.

a) 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.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A) (PTI 15-01599 issued 11/21/2006)	The permittee shall not exceed the following emission limits: 1.9 lbs VOC/hour and 8.2 tons VOC/yr. 0.72 lbs SO2/hour and 3.2 tons SO2/yr. 8.7 lbsNOx/hour and 38.3 tons NOx/yr. 49.5 lbs CO/hour and 217 tons CO/yr. 1.29 tons Hg/yr. 6.15 tons PM per year. See (2)a and c)(1). The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-09(C), 40 CFR Part 61, Subpart E and 40 CFR Part 60, Subpart O.

b.	OAC rule 3745-17-07(A) OAC rule 3745-17-09(B)	The PM and visible emission limitations specified in 40 CFR Part 60, Subpart O are more stringent than the emission limitations specified in these rules.
c.	OAC rule 3745-17-09(C)	See (2)b.
d.	40 CFR Part 61, Subpart E (40 CFR 61.50-71)	3,200 grams of mercury (Hg) per 24-hour period
e.	40 CFR Part 60, Subpart O (40 CFR 60.150-156)	1.3 lbs PM/ton dry sludge Visible particulate emissions from any stack shall not exceed 20 % opacity. See (2)d.-g.
f.	40 CFR Part 64	See d)(7)-(11), and e)(1)-(2)

(2) Additional Terms and Conditions

- a. The emissions from the emissions units listed above shall be vented to the wet scrubber at all times the emissions unit is in operation.
- b. Each incinerator, including all associated equipment and grounds, shall be designed, operated and maintained so as to prevent emissions of objectionable odors.
- c. These emissions units are not subject to the beryllium NESHAP (40 CFR Part 61, Subpart C) because the sewage sludge processed does not contain any "beryllium containing waste". As defined in 40 CFR Part 61.31(g), "beryllium containing waste" means material contaminated with beryllium and/or beryllium compounds used or generated during any process or operation performed by a source subject to this subpart (40 CFR Part 61, Subpart C). See term e)(7).
- d. The permittee shall collect a representative grab sample of the sludge fed to the incinerator once per day. The facility shall analyze the sample for volatile solids content and dry sludge content once per day. The permittee shall provide access to the sludge charged so that a well-mixed representative grab sample of the sludge can be obtained.
- e. If a subsequent performance test shows PM emissions exceed 0.75 pound per ton of dry sludge, permittee shall use the formulation established in 40 CFR 60.155 (a)(1)(i) to determine the allowable pressure drop range. An exceedance of the pressure drop operating level is considered to have occurred when the pressure drop across the scrubber is less than the minimum acceptable level for a duration of 15 minutes or more in an hour and measured only when the sludge is being charged to the incinerator (i.e., excluding downtime, start-up, and shut-down periods).
- f. The average oxygen content of the incinerator exhaust gas for each one-hour incinerator operating period shall not exceed the oxygen content measured during the most recent performance test by more than 3 percent. If the last

previous satisfactory performance test showed a particulate matter emission rate of less than 0.75 lb/ton charged, the oxygen content does not have to be maintained below the designated threshold.

- g. Every hearth shall be maintained at a temperature to be determined during a performance test in which compliance is demonstrated. The operation of the sewage sludge incinerator shall not exceed the maximum or minimum combustion temperatures (averaged over each one-hour incinerator operating period) as determined during the performance test of the sludge incinerator. If the last previous satisfactory performance test showed a particulate matter emission rate of less than 0.75 lb/ton charged, the temperature does not have to be monitored and these minimum and maximum limits will not have to be met.

c) Operational Restrictions

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

[Authority for Term: OAC rule 3745-77-07(C)(1), OAC rule 3745-31-05(A), and PTI 15-01599]

d) Monitoring and/or Recordkeeping Requirements

- (1) Mercury shall be monitored, and records maintained, as specified under 40 CFR Part 61, Subpart E.

[Authority for Term: OAC rule 3745-77-07(C)(1), 40 CFR Part 61, Subpart E, and PTI 15-01599]

- (2) This facility shall install, calibrate, maintain, and operate the following monitoring devices:

- a. a flow measuring device which can be used to continuously determine either the mass or volume of sludge charged to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of plus/minus 5 percent over its operating range. The amount of sludge shall be recorded during all periods of operation;
- b. a monitoring device that continuously measures and records the pressure drop of the gas flow through the wet scrubbing device. Where a combination of wet scrubbers is used in series, the pressure drop of the gas flow through the combined system shall be continuously monitored. The device used to monitor the scrubber pressure drop shall be certified by the manufacturer to be accurate within plus/minus 1 inch water gauge and shall be calibrated on an annual basis in accordance with the manufacturer's instructions;
- c. a monitoring device that continuously measures and records the oxygen content of the incinerator exhaust gas. The oxygen monitor shall be located upstream of

any rabble shaft cooling air inlet into the incinerator exhaust stream, fan, ambient air re-circulation damper, or any other source of dilution air. The oxygen monitoring device shall be certified by the manufacturer to have a relative accuracy of plus/minus 5 percent over its operating range and shall be calibrated according to method(s) prescribed by the manufacturer at least once each 24 hour operating period:

- d. a monitoring device that monitors the water flow rate through the scrubber so that proper operation of the scrubber can be verified;
- e. a temperature measuring device at every hearth. A minimum of one thermocouple shall be installed in each hearth in the cooling and drying zones, and a minimum of two thermocouples shall be installed in each hearth in the combustion zone; and,
- f. a continuous measuring device for measuring fuel flow to the incinerator. Each fuel flow measuring device shall be certified by the manufacturer to have an accuracy of plus/minus 5 percent over its operating range.

[Authority for Term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60, Subpart O, and PTI 15-01599]

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

[Authority for Term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60, Subpart O, and PTI 15-01599]

- (4) If exempt from continuous monitoring of the mass or volume of sludge per term d)(3), then the facility shall maintain daily records of the amount of sludge charged.

[Authority for Term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60, Subpart O, and PTI 15-01599]

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

[Authority for Term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60, Subpart O, and PTI 15-01599]

- (6) Unless the permittee is exempt from monitoring fuel flow, temperature, and rate of sludge as noted in term d)(3), the following quality assurance/quality control requirements shall apply:

- a. fuel flow continuous monitoring - quarterly calibration error checks;
- b. temperature continuous monitoring - quarterly calibration error checks; and,

- c. rate of sludge charged to the incinerator continuous monitoring - quarterly calibration error checks.

[Authority for Term: OAC rule 3745-77-07(C)(1) and PTI 15-01599]

- (7) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible particulate emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible particulate emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible particulate emissions.

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

- (8) In order to maintain compliance with the applicable emission limitation(s) contained in this permit, the acceptable pressure drop across the scrubber shall be maintained between 10 and 30 in. H₂O and acceptable the scrubber water flow rate shall be maintained between 300 and 715 gallons per minute in order to demonstrate compliance.

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

- (9) The CAM plan for this emissions unit has been developed for particulate emissions. The CAM performance indicators for the scrubber controlling this emissions unit are pressure drop and water flow rate which are based upon the results of site-specific particulate emission testing, scrubber parametric data collected during the emission testing, and scrubber parametric data collected over a five-year period. When the pressure drop and water flow rates of the scrubber are operating outside the indicator ranges, corrective

action (including, but not limited to, an evaluation of the emissions unit and the control devices) will be required.

Upon detecting an excursion of any of the particulate emission indicator ranges listed above, the owner or operator shall restore operation of the emissions unit and/or its control equipment to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion. Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action, or any necessary follow-up actions to return operation to within the indicator range.

If a determination is made by the Administrator or Ohio EPA that the permittee has not used acceptable procedures in response to an excursion or exceedance based on the results of a determination made under 40 CFR Part 64.7(d)(2), the permittee may be required to develop a Quality Improvement Plan (QIP) consistent with the requirements of 40 CFR Part 64.8.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 64.3(a), 40 CFR Part 64.6(c), 40 CFR Part 64.7(d), and 40 CFR Part 64.8]

- (10) The permittee shall properly install, operate, and maintain equipment to continuously monitor the pressure drop across the scrubber (in inches of water) and the scrubber liquid flow rate (in gallons per minute) during operation of these emissions units, including periods of startup and shutdown. The permittee shall record the pressure drop across the scrubber and the scrubber liquid flow rate on an hourly basis. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s), with any modifications deemed necessary by the permittee.

Whenever the monitored value for any parameter deviates from the ranges established in accordance with this permit, the permittee shall promptly investigate the cause of the deviation. The permittee shall maintain records of the following information for each investigation:

- a. the date and time the deviation began;
- b. the magnitude of the deviation at that time;
- c. the date the investigation was conducted;
- d. the name(s) of the personnel who conducted the investigation; and
- e. the finding and recommendations

In response to each required investigation to determine the cause of a deviation, the permittee shall take prompt corrective action to bring the control equipment parameters within the limit(s) specified in this permit, unless the permittee determines that corrective

action is not necessary and documents the reasons for that determination and the date and time the deviation ended. The permittee shall maintain records of the following information for each corrective action taken:

- a. a description of the corrective action;
- b. the date the corrective action was completed;
- c. the date and time the deviation ended;
- d. the total period of time (in minutes) during which there was a deviation;
- e. the pressure drop and flow rate readings immediately after the corrective action was implemented; and
- f. the name(s) of the personnel who performed the work.

Investigation and records required by this paragraph do not eliminate the need to comply with the requirements of OAC rule 3745-15-06 if it is determined that a malfunction has occurred.

These limit(s) for the pressure drop and liquid flow rate are effective for the duration of this permit, unless revisions are requested by the permittee and approved in writing by the Canton City Health Department, Air Pollution Control Division. The permittee may request revisions to the limit(s) for the pressure drop or liquid flow rate based upon information obtained during future performance tests that demonstrate compliance with the allowable particulate emission rate for this/these emissions unit(s). In addition, approved revisions to the limit(s) will not constitute a relaxation of the monitoring requirements of this permit and may be incorporated into this permit by means of a minor permit modification.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 64.3(a), and 40 CFR Part 64.9(b)]

Pursuant to 40 CFR 64.3(a)(2), the permittee shall monitor each bypass damper (or valve) located in the exhaust gas capture system between the emissions unit and the air pollution control device and each emergency bypass valve installed at the air pollution control device that allows the exhaust gas to be diverted away from the air pollution control device to atmosphere. The permittee shall ensure that the bypass line valve or damper is in the closed position through continuous monitoring of valve position. The permittee shall record all times when the bypass line valve or damper is not in the closed position. The monitoring system shall be inspected at least once every month to ensure that it is functioning properly.

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

- (11) The permittee shall maintain the following monitoring records and retain the following information in its files for a period of not less than five (5) years:
 - a. a continuous or daily record of the pressure drop of the gas flow through the scrubber and the hourly average of the pressure drop;

- b. a continuous or daily record of the rate of sludge charged to the incinerator according to term d)(2)a;
- c. a daily record of the sludge sampling, dry sludge content, and the volatile solids content of the sludge charged to the incinerator;
- d. a continuous record of the fuel flow to the incinerator;
- e. a continuous record of the temperatures in every hearth of the multiple hearth incinerator;
- f. a continuous record of the oxygen content of the exhaust gas;
- g. records of any information that indicate that the requirements of 40 CFR 61 Part E have been met;
- h. daily records identifying the maximum and minimum value of each operating parameter (e.g. temperature of each hearth in the cooling and drying zones and the combustion zone, scrubber pressure drop, scrubber liquid flow rate, oxygen content of the incinerator exhaust gas) that is not to be exceeded. These levels are based on the results of the performance test during which compliance was demonstrated; and records of monitoring equipment calibration checks. The information shall be made available to the Director or any authorized representative of the Director, for review during normal business hours.
- i. A record and report of the fuel flow, total solids and volatile solids content of the sludge charged to the incinerator, and incinerator bed temperature is not required if emissions tests of the incinerator demonstrate that particulate matter (PM) emissions are less than 0.75 pound PM per ton of dry sludge input.
- j. a continuous or daily record of the scrubber liquid flow rate.
- k. A record of the total number of minutes the bypass damper (or valve) is in the open position for each bypass event.

[Authority for Term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60, Subpart O, and PTI 15-01599]

- (12) Records of emission test results and other data needed to determine total emissions from N001 and N002 of all pollutants listed in this permit shall be retained at the facility and shall be made available for inspection by the Director or a representative of the Ohio EPA for a minimum of five years.

[Authority for Term: OAC rule 3745-77-07(C)(1) and PTI 15-01599]

- (13) The permittee shall maintain daily records of the time periods during which N001 and N002 are in operation.

[Authority for Term: OAC rule 3745-77-07(C)(1) and PTI 15-01599]

- (14) If the permittee determines that it will not submit an annual statement that its sewage sludge does not contain beryllium containing waste as specified in term e)(8), the permittee shall comply with all the monitoring and record keeping requirements specified in 40 CFR Part 61, Subpart C for incinerators that process "beryllium containing waste".

[Authority for Term: OAC rule 3745-77-07(C)(1), and PTI 15-01599]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the following scrubber parameters were not maintained within the required levels:

- a. each period of time (start time and date, and end time and date) when the pressure drop across the scrubber and/or the liquid flow rate was/were outside of the appropriate range or exceeded the applicable limit contained in this permit;
- b. any period of time (start time and date, and end time and date) when the emissions unit(s) was/were in operation and the process emissions were not vented to the scrubber;
- c. each incident of deviation described in a or b above where a prompt investigation was not conducted;
- d. each incident of deviation described in a or b above where a corrective action, that would bring the pressure drop and/or liquid flow rate into compliance with the acceptable range was determined to be necessary and was not taken; and
- e. each incident of deviation described in a or b above where proper records were not maintained for the investigation and/or corrective action(s), as identified in the monitoring and record keeping requirements of this permit.

[Authority for Term: OAC rule 3745-77-07(C)(1), and 40 CFR Part 64]

- (2) The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time during which the emergency bypass damper (or valve) was open (in use) for five minutes or more while incinerating sludge.

[Authority for Term: OAC rule 3745-77-07(C)(1), and 40 CFR Part 64]

- (3) If the average particulate matter emission rate measured during the most recent compliance test exceeds 0.75 lb/ton of dry sludge input, the permittee shall submit semi annually a report in writing which contains the following:

- a. a record of average scrubber pressure drop measurements for each period of one hour duration or more during which the pressure drop of the scrubber was less than, by a percentage specified below, the average scrubber pressure drop measured during the most recent performance test. The percent reduction in scrubber pressure drop for which a report is required shall be determined as follows:

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

$$P = -111E + 72.15$$

Where:

P = Percent reduction in pressure drop, and
E = Average particulate matter emissions (kg/mega-gram)

- b. a record of average oxygen content in the incinerator exhaust gas for each period of 1-hour duration or more that the oxygen content of the incinerator exhaust gas exceeds the average oxygen content measured during the most recent performance test by more than 3 percent; and,
- c. a record of when the incinerator combustion zone temperature falls below a minimum temperature, to be determined during a compliance test in which compliance was demonstrated.

[Authority for Term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60, Subpart O, and PTI 15-01599]

- (4) If the average particulate matter emission rate measured during the most recent compliance test exceeds 0.75 lb/ton of dry sludge input, the permittee shall include in the semiannual exceedance report (described in term e)(3) above) for each calendar day that an increase in oxygen content of exhaust gas is reported a record of the following:
 - a. the scrubber pressure drop average over each one- hour incinerator operating period;
 - b. the oxygen content in the incinerator exhaust over one-hour incinerator operating period;
 - c. the temperature of the incinerator, averaged over one-hour incinerator operating period;
 - d. the rate of sludge charged to the incinerator, averaged over each one-hour incinerator operating period;
 - e. the incinerator fuel use averaged over each eight-hour incinerator operating period; and,
 - f. the moisture and volatile solids content of the daily grab sample of sludge charged to the incinerator.

[Authority for Term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60, Subpart O, and PTI 15-01599]

- (5) The permittee shall submit quarterly written reports, as part of the quarterly deviation reports, that identify:

- a. all days during which any visible particulate emissions were observed from the stack serving these emissions units; and
- b. any corrective actions taken to minimize or eliminate the visible particulate emissions.

[Authority for Term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

- (6) The permittee shall submit exceedance reports for each day during which incinerators N001 and N002 were in continuous operation simultaneously (except during periods of switch over). The report shall include the reasons for the excursion and any actions which were taken to correct the operational infraction.

[Authority for Term: OAC rule 3745-77-07(C)(1) and PTI 15-01599]

- (7) Except as provided in term e)(8) below, the permittee shall submit an annual statement as part of its annual compliance certification report that indicates that sewage sludge processed in this emissions unit does not contain any "beryllium containing waste," as that term is defined in the Beryllium NESHAP, in 40 CFR Part 61, Subpart C. As the basis for this statement, the permittee shall annually review all of its permitted industrial dischargers to determine if any of the industrial dischargers discharge beryllium containing waste to the Canton Water Reclamation Center in Canton, Ohio.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

- (8) If the permittee determines that it will not submit an annual statement that its sewage sludge does not contain beryllium containing waste, the permittee shall notify the Canton City Health Department, Air Pollution Control Division, and, thereafter, the permittee shall be subject to and shall comply with the requirements of 40 CFR Part 61, Subpart C, including the emission limitation of 10 grams of beryllium in a twenty-four hour period. In addition, whenever particulate emission testing is performed for this incinerator, the permittee also shall demonstrate compliance with the emission limitation for beryllium by performing emission testing in accordance with Method 103 or 104 of 40 CFR Part 60, Appendix B.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

- (9) A report of the total annual number of minutes when the bypass damper (or valve) was open and an estimate of the uncontrolled particulate emissions released shall be submitted annually at the same time or combined with the annual fee emissions report each year.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

- (10) All reports shall be submitted in accordance with the reporting requirements of Part A: Standard Terms and Conditions of this permit. Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[Authority for Term: OAC rule 3745-77-07(C)(1)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods for each incinerator (N001 and N002):

a. Emission Limitation:

1.3 pounds of particulate matter per ton of dry sludge feed

Applicable Compliance Method:

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

b. Emission Limitation:

3,200 grams of mercury per 24-hour period

Applicable Compliance Method:

The permittee shall test mercury emissions from each incinerator in order to demonstrate compliance with 40 CFR 61, Subpart E, by conducting either:

- i. A stack test using Method 101A in Appendix B and paragraph 61.54 of 40 CFR Part 61 (USEPA Method 29 may also be used to determine maximum emissions over a 24-hour period); or
- ii. Perform an annual sludge sampling test using Method 105 in Appendix B and paragraph 61.54 of 40 CFR Part 61; or
- iii. Upon USEPA approval, testing may be performed using sludge analysis methods.

In accordance with 40 CFR 61.53(d), samples shall be taken over such a period as necessary to determine accurately the maximum emissions which will occur in a 24-hour period. Samples shall be analyzed and emissions determined within 30 days after the emissions unit performance or stack test.

If test results show that mercury emissions do not exceed 1,600 grams per 24-hour period after two years of sludge testing, further testing for mercury emissions shall be done at the time of renewal for the operating permit for each emission unit.

c. Emission Limitation:

1.9 lbs VOC/hr.

Applicable Compliance Method:

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

d. Emission Limitation:

0.72 lb SO₂/hr

Applicable Compliance Method:

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

e. Emission Limitation:

8.7 lbsNO_x/hr

Applicable Compliance Method:

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

f. Emission Limitation:

49.5 lbs CO/hr

Applicable Compliance Method:

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

g. Emission Limitation:

6.15 tons/year of particulate matter

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the pounds of PM per ton of dry sludge feed from the most recent test that demonstrated this emissions unit was in compliance by the actual amount of dry sludge processed per year and dividing by 2000 lbs/ton.

This emission limitation was established by multiplying the 40 CFR Part 60, Subpart O emission limit of 1.3 pounds of PM per ton of dry sludge feed by the maximum hourly rate of dry sludge processed ($2160/2000 = 1.08$ tons/hr) multiplied by 8760 hrs/yr and dividing by 2000 lbs/ton.

h. Emission Limitation:

1.29 tons/year of mercury (Hg)

Applicable Compliance Method:

This emission limitation was established by multiplying the 40 CFR Part 61, Subpart E, emission limit of 3200 grams of mercury per 24-hour period by the conversion factor of 2.205 E-03 lb/gram, multiplying by 365 days per year, and dividing by 2000 lbs/ton.

i. Emission Limitations:

8.2 tons/year of volatile organic compounds (VOC)

3.2 tons/year of sulfur dioxide (SO₂)

38.3 tons/year of nitrogen oxide (NO_x)

217.0 tons/year of carbon monoxide (CO)

Applicable Compliance Method:

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

j. Visible Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20 % opacity.

Applicable Compliance Method:

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

[Authority for Term: OAC rule 3745-77-07(C)(1) and PTI 15-01599]

(2) The permittee shall conduct, or have conducted, emission testing for either emissions unit N001 or N002 in accordance with the following requirements:

a. The emission testing shall be conducted within 6 months after the average annual throughput of the facility exceeds 7,500 tons of dry sludge processed and per the requirements specified in section f)(3) below.

b. The emission testing shall be conducted to demonstrate compliance with the allowable mass emission rates for PM, VOC, CO, NO_x and SO₂ and the allowable visible emission limitation.

c. The following test method(s) shall be employed to demonstrate compliance with the allowable emission rate(s):

For PM, the Methods outlined in 40 CFR 60.154 and 60.8.

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

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

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

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

For visible emissions, Method 9 of 40 CFR Part 60, Appendix A.

Alternative U.S. EPA-approved test methods may be used with prior approval from the Canton City Health Department, Air Pollution Control Division (CCHD, APCD).

- d. The test(s) shall be conducted while this emissions unit is operating at or near maximum capacity unless otherwise specified or approved by the Canton City Health Department, Air Pollution Control Division (CCHD, APCD).
- e. All parameters monitored per section d) of this permit shall be monitored and recorded at no less than 15 minute intervals during the test(s) to establish the acceptable operating ranges.
- f. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the CCHD, APCD. 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 CCHD, APCD refusal to accept the results of the emission test(s).
- g. Personnel from the CCHD, APCD 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.
- h. 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 CCHD, APCD 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 CCHD, APCD.

[Authority for Term: OAC rule 3745-77-07(C)(1) and PTI 15-01599]

- (3) In lieu of requiring emission testing specified in f)(2)b.-h. within 6 months after permit issuance, the permittee shall demonstrate continuing progress towards completion of a conversion project for the Canton Water Reclamation Facility that will eliminate the use of sludge incineration from both incinerators (emissions units N001 & N002). The City of Canton has committed to the following schedule of milestones and completion dates for the conversion project:

- a. Conversion Project Milestones (incorporated from NPDES 3PE00000*PD):
 - i. Develop final detail plans for plant and sewer system improvements no later than 11/01/2013
 - ii. Award construction contracts no later than 04/01/2014
 - iii. Commence construction no later than 11/01/2014
 - iv. Complete construction no later than 11/01/2017
 - v. Attain operational level of treatment works no later than 01/01/2018
- b. The permittee shall submit conversion project schedule status reports no later than May 1st every year. These status reports shall detail if the project is still meeting the schedule, if there are any schedule delays, and an explanation with corrective action regarding the schedule delays.
- c. The above conversion project is also a requirement in the Ohio EPA National Pollutant Discharge Elimination System (NPDES) Permit 3PE00000*PD issued to the facility effective May 1, 2010. The project schedule status reports submitted as required by the NPDES permit may be submitted to CCHD to meet the requirement in (3)b above.
- d. The permittee shall conduct emission testing for either emissions unit N001 or N002 in accordance with f)(2)b.-h. above by 5/01/2015. In the event that commencement of construction for the conversion project has not been undertaken by 11/01/2014.

[Authority for Term: OAC rule 3745-77-07(C)(1) and Ohio EPA NPDES 3PE00000*PD]

g) **Miscellaneous Requirements**

These incinerators (N001 and N002) have been upgraded to comply with the wastewater regulations as specified in 40 CFR Part 503. This includes the establishment and monitoring for compliance with a 100 ppmv emission limit for Total Hydrocarbon Concentration as a monthly average of hourly averages, corrected to 0% H₂O and 7% O₂. This Title V permit does not establish any requirements associated with this wastewater regulation.