

DRAFT CAAPP PERMIT
June 27, 2013

Attention:

Metropolitan Biosolids Management, LLC
Attn: Steven Waters
Post Office Box 53
Lyons, Illinois 60534

State of Illinois

CLEAN AIR ACT PERMIT
PROGRAM (CAAPP) PERMIT

Source:

Metropolitan Biosolids Management, LLC
6001 West Pershing Road
Stickney, Illinois 60804

I.D. No.: 031051APL
Permit No.: 08090012

Permitting Authority:

Illinois Environmental Protection Agency
Bureau of Air, Permit Section
217/785-1705

CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT

Type of Application: New
Purpose of Application: Issue New Permit to a New Major Source
ID No.: 031051APL
Permit No.: 08090012
Statement of Basis No.: 08090012-2013/06

Date Application Received: September 8, 2008
Date Issued: TBD

Expiration Date: TBD
Renewal Submittal Date: 9 Months Prior to expiration date

Source Name: Metropolitan Biosolids Management, LLC
Address: 6001 W Pershing Road
City: Stickney
County: Cook
ZIP Code: 60804

This permit is hereby granted to the above-designated source authorizing operation in accordance with this CAAPP permit, pursuant to the above referenced application. This source is subject to the conditions contained herein. For further information on the source see Section 1 and for further discussion on the effectiveness of this permit see Condition 2.3(g).

If you have any questions concerning this permit, please contact Anatoly Belogorsky at 217/785-1705.

Robert W. Bernoteit
Acting Manager, Permit Section
Division of Air Pollution Control

RWB:MTR:AB:psj

cc: IEPA, Permit Section
IEPA, FOS, Region 1

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Section 1 - Source Information

1. AddressesSource

Metropolitan Biosolids Management, LLC
6001 West Pershing Road
Stickney, Illinois 60804

Owner

Metropolitan Biosolids Management, LLC
6001 West Pershing Road
Stickney, Illinois 60804

Operator

Metropolitan Biosolids Management, LLC
6001 West Pershing Road
Stickney, Illinois 60804

Permittee

The Owner and Operator of the source as identified in this table.

2. ContactsCertified Officials

The source shall submit an Administrative Permit Amendment for any change in the Certified Officials, pursuant to Section 39.5(13) of the Act.

	<i>Name</i>	<i>Title</i>
<i>Responsible Official</i>	Steven Waters	President
<i>Delegated Authority</i>	No other individuals have been authorized by the IEPA.	N/A

Other Contacts

	<i>Name</i>	<i>Phone No.</i>	<i>Email</i>
<i>Source Contact</i>	Steven Waters	708/652-0575	steven.waters@veoliawaterna.com
<i>Technical Contact</i>	Steven Waters	708/652-0575	steven.waters@veoliawaterna.com
<i>Correspondence</i>	Steven Waters	708/652-0575	steven.waters@veoliawaterna.com
<i>Billing</i>	Steven Waters	708/652-0575	steven.waters@veoliawaterna.com

3. Single Source

The source identified in Condition 1.1 above shall be defined to include all the following additional source(s):

<i>I.D. No.</i>	<i>Permit No.</i>	<i>Single Source Name and Address</i>
031300AAL	95090075	Metropolitan Water Reclamation District of Greater Chicago/Stickney Water Reclamation Plant 6001 Pershing Road, Cicero, 60804

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Section 2 - General Permit Requirements

1. Prohibitions

- a. It shall be unlawful for any person to violate any terms or conditions of this permit issued under Section 39.5 of the Act, to operate the CAAPP source except in compliance with this permit issued by the IEPA under Section 39.5 of the Act or to violate any other applicable requirements. All terms and conditions of this permit issued under Section 39.5 of the Act are enforceable by USEPA and citizens under the Clean Air Act, except those, if any, that are specifically designated as not being federally enforceable in this permit pursuant to Section 39.5(7)(m) of the Act. [Section 39.5(6)(a) of the Act]
- b. After the applicable CAAPP permit or renewal application submittal date, as specified in Section 39.5(5) of the Act, the source shall not operate this CAAPP source without a CAAPP permit unless the complete CAAPP permit or renewal application for such source has been timely submitted to the IEPA. [Section 39.5(6)(b) of the Act]
- c. No Owner or Operator of the CAAPP source shall cause or threaten or allow the continued operation of an emission source during malfunction or breakdown of the emission source or related air pollution control equipment if such operation would cause a violation of the standards or limitations applicable to the source, unless this CAAPP permit granted to the source provides for such operation consistent with the Act and applicable Illinois Pollution Control Board regulations. [Section 39.5(6)(c) of the Act]
- d. Pursuant to Section 39.5(7)(g) of the Act, emissions from the source are not allowed to exceed any allowances that the source lawfully holds under Title IV of the Clean Air Act or the regulations promulgated thereunder, consistent with Section 39.5(17) of the Act and applicable requirements, if any.

2. Emergency Provisions

Pursuant to Section 39.5(7)(k) of the Act, the Owner or Operator of the CAAPP source may provide an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations under this CAAPP permit if the following conditions are met through properly signed, contemporaneous operating logs, or other relevant evidence:

- a.
 - i. An emergency occurred and the source can identify the cause(s) of the emergency.
 - ii. The source was at the time being properly operated.
 - iii. The source submitted notice of the emergency to the IEPA within 2 working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a detailed description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.
 - iv. During the period of the emergency the source took all reasonable steps to minimize levels of emissions that exceeded the emission limitations, standards, or requirements in this permit.
- b. For purposes of Section 39.5(7)(k) of the Act, "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, such as an act of God, that requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operation error.
- c. In any enforcement proceeding, the source seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency or

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upset provision contained in any applicable requirement. This provision does not relieve the source of any reporting obligations under existing federal or state laws or regulations.

3. General Provisions

a. Duty to Comply

The source must comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the CAA and the Act, and is grounds for any or all of the following: enforcement action; permit termination, revocation and reissuance, or modification; or denial of a permit renewal application. [Section 39.5(7)(o)(i) of the Act]

b. Need to Halt or Reduce Activity is not a Defense

It shall not be a defense for the source in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [Section 39.5(7)(o)(ii) of the Act]

c. Duty to Maintain Equipment

The source shall maintain all equipment covered under this permit in such a manner that the performance or operation of such equipment shall not cause a violation of applicable requirements. [Section 39.5(7)(a) of the Act]

d. Disposal Operations

The source shall be operated in such a manner that the disposal of air contaminants collected by the equipment operations, or activities shall not cause a violation of the Act or regulations promulgated there under. [Section 39.5(7)(a) of the Act]

e. Duty to Pay Fees

- i. The source must pay fees to the IEPA consistent with the fee schedule approved pursuant to Section 39.5(18) of the Act, and submit any information relevant thereto. [Section 39.5(7)(o)(vi) of the Act]
- ii. The IEPA shall assess annual fees based on the allowable emissions of all regulated air pollutants, except for those regulated air pollutants excluded in Section 39.5(18)(f) of the Act and insignificant activities in Section 6, at the source during the term of this permit. The amount of such fee shall be based on the information supplied by the applicant in its complete CAAPP permit application. [Section 39.5(18)(a)(ii)(A) of the Act]
- iii. The check should be payable to "Treasurer, State of Illinois" and sent to: Fiscal Services Section, Illinois EPA, P.O. Box 19276, Springfield, IL, 62794-9276. Include on the check: ID #, Permit #, and "CAAPP Operating Permit Fees". [Section 39.5(18)(e) of the Act]

f. Obligation to Allow IEPA Surveillance

Pursuant to Sections 4(a), 39.5(7)(a), and 39.5(7)(p)(ii) of the Act, inspection and entry requirements that necessitate that, upon presentation of credentials and other documents as may be required by law and in accordance with constitutional limitations, the source shall allow the IEPA, or an authorized representative to perform the following:

- i. Enter upon the source's premises where the emission unit(s) are located or emissions-related activity is conducted, or where records must be kept under the conditions of this permit.

- ii. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.
- iii. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
- iv. Sample or monitor any substances or parameters at any location at reasonable times:
 - A. As authorized by the Clean Air Act or the Act, at reasonable times, for the purposes of assuring compliance with this CAAPP permit or applicable requirements; or
 - B. As otherwise authorized by the Act.
- v. Enter and utilize any photographic, recording, testing, monitoring, or other equipment for the purposes of preserving, testing, monitoring, or recording any activity, discharge or emission at the source authorized by this permit.

g. Effect of Permit

- i. Pursuant to Section 39.5(7)(j)(iv) of the Act, nothing in this CAAPP permit shall alter or affect the following:
 - A. The provisions of Section 303 (emergency powers) of the CAA, including USEPA's authority under that Section.
 - B. The liability of the Owner or Operator of the source for any violation of applicable requirements prior to or at the time of permit issuance.
 - C. The applicable requirements of the acid rain program consistent with Section 408(a) of the Clean Air Act.
 - D. The ability of USEPA to obtain information from the source pursuant to Section 114 (inspections, monitoring, and entry) of the Clean Air Act.
- ii. Notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, pursuant to Sections 39.5(7)(j) and (p) of the Act, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements. [35 IAC 201.122 and Section 39.5(7)(a) of the Act]

h. Severability Clause

The provisions of this permit are severable. In the event of a challenge to any portion of this permit, other portions of this permit may continue to be in effect. Should any portion of this permit be determined to be illegal or unenforceable, the validity of the other provisions shall not be affected and the rights and obligations of the source shall be construed and enforced as if this permit did not contain the particular provisions held to be invalid and the applicable requirements underlying these provisions shall remain in force. [Section 39.5(7)(i) of the Act]

4. Testing

- a. Tests conducted to measure composition of materials, efficiency of pollution control devices, emissions from process or control equipment, or other parameters shall be conducted using standard test methods if applicable test methods are not specified by the applicable regulations or otherwise identified in the conditions of this permit. Documentation of the test date, conditions, methodologies, calculations, and test results shall be retained pursuant to the recordkeeping procedures of this permit. Reports of

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any tests conducted as required by this permit or as the result of a request by the IEPA shall be submitted as specified in Condition 7.1 of this permit. [35 IAC Part 201 Subpart J and Section 39.5(7)(a) of the Act]

- b. Pursuant to Section 4(b) of the Act and 35 IAC 201.282, every emission source or air pollution control equipment shall be subject to the following testing requirements for the purpose of determining the nature and quantities of specified air contaminant emissions and for the purpose of determining ground level and ambient air concentrations of such air contaminants:
 - i. Testing by Owner or Operator: The IEPA may require the Owner or Operator of the emission source or air pollution control equipment to conduct such tests in accordance with procedures adopted by the IEPA, at such reasonable times as may be specified by the IEPA and at the expense of the Owner or Operator of the emission source or air pollution control equipment. All such tests shall be made by or under the direction of a person qualified by training and/or experience in the field of air pollution testing. The IEPA shall have the right to observe all aspects of such tests.
 - ii. Testing by the IEPA: The IEPA shall have the right to conduct such tests at any time at its own expense. Upon request of the IEPA, the Owner or Operator of the emission source or air pollution control equipment shall provide, without charge to the IEPA, necessary holes in stacks or ducts and other safe and proper testing facilities, including scaffolding, but excluding instruments and sensing devices, as may be necessary.

5. Recordkeeping

a. Control Equipment Maintenance Records

Pursuant to Section 39.5(7)(b) of the Act, a maintenance record shall be kept on the premises for each item of air pollution control equipment. At a minimum, this record shall show the dates maintenance was performed and the nature of preventative maintenance activities.

b. Retention of Records

- i. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. [Section 39.5(7)(e)(ii) of the Act]
- ii. Pursuant to Section 39.5(7)(a) of the Act, other records required by this permit including any logs, plans, procedures, or instructions required to be kept by this permit shall be retained for a period of at least 5 years from the date of entry unless a different period is specified by a particular permit provision.

c. Availability of Records

- i. Pursuant to Section 39.5(7)(a) of the Act, the Permittee shall retrieve and provide paper copies, or as electronic media, any records retained in an electronic format (e.g., computer) in response to an IEPA or USEPA request during the course of a source inspection.
- ii. Pursuant to Section 39.5(7)(a) of the Act, upon written request by the IEPA for copies of records or reports required to be kept by this permit, the Permittee shall promptly submit a copy of such material to the IEPA. For this purpose, material shall be submitted to the IEPA within 30 days unless additional time is provided by the IEPA or the Permittee believes that the volume and nature of

requested material would make this overly burdensome, in which case, the Permittee shall respond within 30 days with the explanation and a schedule for submittal of the requested material. (See also Condition 2.9(d))

6. Certification

a. Compliance Certification

- i. Pursuant to Section 39.5(7)(p)(v)(C) of the Act, the source shall submit annual compliance certifications by May 1 unless a different date is specified by an applicable requirement or by a particular permit condition. The annual compliance certifications shall include the following:
 - A. The identification of each term or condition of this permit that is the basis of the certification.
 - B. The compliance status.
 - C. Whether compliance was continuous or intermittent.
 - D. The method(s) used for determining the compliance status of the source, both currently and over the reporting period consistent with the conditions of this permit.
- ii. Pursuant to Section 39.5(7)(p)(v)(D) of the Act, all compliance certifications shall be submitted to USEPA Region 5 in Chicago as well as to the IEPA Compliance Section. Addresses are included in Attachment 3.
- iii. Pursuant to Section 39.5(7)(p)(i) of the Act, all compliance reports required to be submitted shall include a certification in accordance with Condition 2.6(b).

b. Certification by a Responsible Official

Any document (including reports) required to be submitted by this permit shall contain a certification by the responsible official of the source that meets the requirements of Section 39.5(5) of the Act and applicable regulations. [Section 39.5(7)(p)(i) of the Act]. An example Certification by a Responsible Official is included in Attachment 4 of this permit.

7. Permit Shield

- a. Pursuant to Section 39.5(7)(j) of the Act, except as provided in Condition 2.7(b) below, the source has requested and has been granted a permit shield. This permit shield provides that compliance with the conditions of this permit shall be deemed compliance with applicable requirements which were applicable as of the date the proposed permit for this source was issued, provided that either the applicable requirements are specifically identified within this permit, or the IEPA, in acting on this permit application, has determined that other requirements specifically identified are not applicable to this source and this determination (or a concise summary thereof) is included in this permit. This permit shield does not extend to applicable requirements which are promulgated after **Error! Bookmark not defined.** _____ (date USEPA notice started), unless this permit has been modified to reflect such new requirements.
- b. Pursuant to Section 39.5(7)(j) of the Act, this permit and the terms and conditions herein do not affect the Permittee's past and/or continuing obligation with respect to statutory or regulatory requirements governing major source construction or modification under Title I of the CAA. Further, neither the issuance of this permit nor any of the terms or conditions of the permit shall alter or affect the liability of the Permittee for any violation of applicable requirements prior to or at the time of permit issuance.

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- c. Pursuant to Section 39.5(7)(a) of the Act, the issuance of this permit by the IEPA does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any currently pending or future legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the IEPA or the USEPA may have against the applicant including, but not limited to, any enforcement action authorized pursuant to the provision of applicable federal and state law.

8. Title I Conditions

Pursuant to Sections 39(a), 39(f), and 39.5(7)(a) of the Act, as generally identified below, this CAAPP permit may contain certain conditions that relate to requirements arising from the construction or modification of emission units at this source. These requirements derive from permitting programs authorized under Title I of the Clean Air Act (CAA) and regulations thereunder, and Title X of the Illinois Environmental Protection Act (Act) and regulations implementing the same. Such requirements, including the New Source Review programs for both major (i.e., PSD and nonattainment areas) and minor sources, are implemented by the IEPA.

- a. This permit may contain conditions that reflect requirements originally established in construction permits previously issued for this source. These conditions include requirements from preconstruction permits issued pursuant to regulations approved or promulgated by USEPA under Title I of the CAA, as well as requirements contained within construction permits issued pursuant to state law authority under Title X of the Act. Accordingly, all such conditions are incorporated into this CAAPP permit by virtue of being either an "applicable Clean Air Act requirement" or an "applicable requirement" in accordance with Section 39.5 of the Act. These conditions are identifiable herein by a designation to their origin of authority.
- b. This permit may contain conditions that reflect necessary revisions to requirements established for this source in preconstruction permits previously issued under the authority of Title I of the CAA. These conditions are specifically designated herein as "TIR".
- i. Revisions to original Title I permit conditions are incorporated into this permit through the combined legal authority of Title I of the CAA and Title X of the Act. Public participation requirements and appeal rights shall be governed by Section 39.5 of the Act.
- ii. Revised Title I permit conditions shall remain in effect through this CAAPP permit, and are therefore enforceable under the same, so long as such conditions do not expire as a result of a failure to timely submit a complete renewal application or are not removed at the applicant's request.
- c. This permit may contain conditions that reflect new requirements for this source that would ordinarily derive from a preconstruction permit established under the authority of Title I of the CAA. These conditions are specifically designated herein as "TIN".
- i. The incorporation of new Title I requirements into this CAAPP permit is authorized through the combined legal authority of Title I of the CAA and Title X of the Act. Public participation requirements and appeal rights shall be governed by Section 39.5 of the Act.
- ii. Any Title I conditions that are newly incorporated shall remain in effect through this CAAPP permit, and are therefore enforceable under the same, so long as such conditions do not expire as a result of a failure to timely submit a complete renewal application or are not removed at the applicant's request.

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9. Reopening and Revising Permit

a. Permit Actions

This permit may be modified, revoked, reopened and reissued, or terminated for cause in accordance with applicable provisions of Section 39.5 of the Act. The filing of a request by the source for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [Section 39.5(7)(o)(iii) of the Act]

b. Reopening and Revision

Pursuant to Section 39.5(15)(a) of the Act, this permit must be reopened and revised if any of the following occur:

- i. Additional requirements become applicable to the equipment covered by this permit and three or more years remain before expiration of this permit;
- ii. Additional requirements become applicable to the source for acid deposition under the acid rain program;
- iii. The IEPA or USEPA determines that this permit contains a material mistake or that an inaccurate statement was made in establishing the emission standards or limitations, or other terms or conditions of this permit; or
- iv. The IEPA or USEPA determines that this permit must be revised or revoked to ensure compliance with the applicable requirements.

c. Inaccurate Application

Pursuant to Sections 39.5(5)(e) and (i) of the Act, the IEPA has issued this permit based upon the information submitted by the source in the permit application referenced on page 1 of this permit. Any misinformation, false statement or misrepresentation in the application shall be grounds for revocation or reopening of this CAAPP under Section 39.5(15) of the Act.

d. Duty to Provide Information

The source shall furnish to the IEPA, within a reasonable time specified by the IEPA any information that the IEPA may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. Upon request, the source shall also furnish to the IEPA copies of records required to be kept by this permit. [Section 39.5(7)(o)(v) of the Act]

10. Emissions Trading Programs

No permit revision shall be required for increases in emissions allowed under any USEPA approved economic incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for elsewhere in this permit and that are authorized by the applicable requirement. [Section 39.5(7)(o)(vii) of the Act]

11. Permit Renewal

- a. Upon the expiration of this permit, if the source is operated, it shall be deemed to be operating without a permit unless a timely and complete CAAPP application has been submitted for renewal of this permit. However, if a timely and complete application to renew this CAAPP permit has been submitted, the terms and all conditions of the most recent issued CAAPP permit will remain in effect until the issuance of a renewal permit. [Sections 39.5(5)(1) and (o) of the Act]

- b. For purposes of permit renewal, a timely application is one that is submitted no less than 9 months prior to the date of permit expiration. [Section 39.5(5)(n) of the Act]

12. Permanent Shutdown

Pursuant to Section 39.5(7)(a) of the Act, this permit only covers emission units and control equipment while physically present at the source location(s). Unless this permit specifically provides for equipment relocation, this permit is void for the operation or activity of any item of equipment on the date it is removed from the permitted location(s) or permanently shut down. This permit expires if all equipment is removed from the permitted location(s), notwithstanding the expiration date specified on this permit.

13. Startup, Shutdown, and Malfunction

Pursuant to Section 39.5(7)(a) of the Act, in the event of an action to enforce the terms or conditions of this permit, this permit does not prohibit a Permittee from invoking any affirmative defense that is provided by the applicable law or rule.

Section 3 - Source Requirements

1. Applicable Requirements

Pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, the Permittee shall comply with the following applicable requirements. These requirements are applicable to all emission units (including insignificant activities unless specified otherwise in this Section) at the source.

a. Fugitive Particulate Matter

- i. Pursuant to 35 IAC 212.301 and 35 IAC 212.314, no person shall cause or allow the emission of fugitive particulate matter from any process, including any material handling or storage activity, that is visible by an observer looking generally toward the zenith at a point beyond the property line of the source unless the wind speed is greater than 25 mph.
- ii. Compliance Method (Fugitive Particulate Matter)

Upon request by the IEPA, the Permittee shall conduct observations at the property line of the source for visible emissions of fugitive particulate matter from the source to address compliance with 35 IAC 212.301. For this purpose, daily observations shall be conducted for a week for particular area(s) of concern at the source, as specified in the request, observations shall begin either within one day or three days of receipt of a written request from the IEPA, depending, respectively, upon whether observations will be conducted by employees of the Permittee or a third-party observer hired by the Permittee to conduct observations on its behalf. The Permittee shall keep records for these observations, including identity of the observer, the date and time of observations, the location(s) from which observations were made, and duration of any fugitive emissions event(s).

b. Emissions Reduction Market System (ERMS)

Pursuant to 35 IAC Part 205, this source is considered a "participating source" for purposes of the ERMS. An individual allotment of ATUs per seasonal allotment period was not established for this source due to its non-existence at the time of ATU allocation. However, this source and the Metropolitan Water Reclamation District of Greater Chicago/Stickney Water Reclamation Plant (ID 031300AAL) are considered to be one source, as identified in Condition 1.3. Total ATUs originally allotted for ID 031300AAL represent the combined allotment of ATUs to this single source. The Permittee shall comply with all applicable requirements under ERMS in both Section 7.3 of this permit and Permit #95090075 issued for Metropolitan Water Reclamation District of Greater Chicago/Stickney Water Reclamation Plant.

c. Ozone Depleting Substances

Pursuant to 40 CFR 82.150(b), the Permittee shall comply with the standards for recycling and emissions reduction 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:

- i. Pursuant to 40 CFR 82.156, persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices.
- ii. Pursuant to 40 CFR 82.158, equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment.
- iii. Pursuant to 40 CFR 82.161, persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program.

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- iv. Pursuant to 40 CFR 82 Subpart B, any person performing service on a motor vehicle for consideration when this service involves the refrigerant in the motor vehicle air conditioner shall comply with 40 CFR 82 Subpart B, Servicing of Motor Vehicle Air Conditioners.
- v. Pursuant to 40 CFR 82.166, all persons shall comply with the reporting and recordkeeping requirements of 40 CFR 82.166.

d. Asbestos Demolition and Renovation

- i. Asbestos Fees. Pursuant to Section 9.13(a) of the Act, for any site for which the Owner or Operator must file an original 10-day notice of intent to renovate or demolish pursuant to Condition 3.1(d)(ii) below and 40 CFR 61.145(b), the owner or operator shall pay to the IEPA with the filing of each 10-day notice a fee of \$150.
- ii. Pursuant to 40 CFR 61 Subpart M, Standard of Asbestos, prior to any demolition or renovation at this facility, the Permittee shall fulfill notification requirements of 40 CFR 61.145(b).
- iii. Pursuant to 40 CFR 61.145(c), during demolition or renovation, the Permittee shall comply with the procedures for asbestos emission control established by 40 CFR 61.145(c).

e. Future Emission Standards

Pursuant to Section 39.5(15)(a) of the Act, this source shall comply with any new or revised applicable future standards of 40 CFR 60, 61, 62, or 63; or 35 IAC Subtitle B after the date issued of this permit. The Permittee shall, in accordance with the applicable regulation(s), comply with the applicable requirements by the date(s) specified and shall certify compliance with the applicable requirements of such regulation(s) as part of the annual compliance certification, as required by Condition 2.6(a). This permit may also have to be revised or reopened to address such new regulations in accordance to Condition 2.9.

2. <u>Applicable Plans and Programs</u>
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Pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act, the Permittee shall comply with the following applicable requirements. These requirements are applicable to all emission units (including insignificant activities unless specified otherwise in this Section) at the source.

a. Fugitive PM Operating Program

- i. Pursuant to 35 IAC 212.309, this source shall be operated under the provisions of Fugitive PM Operating Program prepared by the Permittee and submitted to the IEPA for its review. The Fugitive PM Operating Program shall be designed to significantly reduce fugitive particulate matter emissions, pursuant to 35 IAC 212.309(a). The Permittee shall comply with the Fugitive PM Operating Program and any amendments to the Fugitive PM Operating Program submitted pursuant to Condition 3.2(a)(ii). As a minimum, the Fugitive PM Operating Program shall include provisions identified in 35 IAC 212.310(a) through (g) and the following:
 - A. A detailed description of the best management practices utilized to achieve compliance with 35 IAC 212.304 through 212.308.
 - B. Estimated frequency of application of dust suppressants by location.
 - C. Such other information as may be necessary to facilitate the IEPA's review of the Fugitive PM Operating Program.

- ii. Pursuant to 35 IAC 212.312, the Fugitive PM Operating Program shall be amended from time to time by the Permittee so that the Fugitive PM Operating Program is current. Such amendments shall be consistent with the requirements set forth by this Condition 3.2(a) and shall be submitted to the IEPA within 30 days of such amendment. Any future revision to the Fugitive PM Operating Program made by the Permittee during the permit term is automatically incorporated by reference provided the revision is not expressly disapproved, in writing, by the IEPA within 30 days of receipt of the revision. In the event that the IEPA notifies the Permittee of a deficiency with any revision to the Fugitive PM Operating Program, the Permittee shall be required to revise and resubmit the Fugitive PM Operating Program within 30 days of receipt of notification to address the deficiency pursuant to Section 39.5(7)(a) of the Act.
- iii. The Fugitive PM Operating Program, as submitted by the Permittee on September 8, 2008, is incorporated herein by reference. The document constitutes the formal Fugitive PM Operating Program required under 35 IAC 212.310, addressing the control of fugitive particulate matter emissions from all plant roadways, including the roads, storage piles, access areas near storage piles, and other subject operations located at the facility that are subject to 35 IAC 212.309.
- iv. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep a copy of the Fugitive PM Operating Program, any amendments or revisions to the Fugitive PM Operating Program (as required by Condition 3.2(a)), and the Permittee shall also keep a record of activities completed according to the Fugitive PM Operating Program.

b. PM₁₀ Contingency Measure Plan

Should this source become subject to 35 IAC 212.700, then the Permittee shall prepare and operate under a PM₁₀ Contingency Measure Plan reflecting the PM₁₀ emission reductions as set forth in 35 IAC 212.701 and 212.703. The Permittee shall, within 90 days after the date this source becomes subject to 35 IAC 212.700, submit a request to modify this CAAPP permit in order to include a new, appropriate PM₁₀ Contingency Measure Plan.

c. Episode Action Plan

- i. Pursuant to 35 IAC 244.141, the Permittee shall have on file with the IEPA an Episode Action Plan for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating procedures. The Episode Action Plan shall contain the information specified in 35 IAC 244.144.
- ii. The Permittee shall immediately implement the appropriate steps described in the Episode Action Plan should an air pollution alert or emergency be declared, as required by 35 IAC 244.169, or as may otherwise be required under 35 IAC 244, Appendix D.
- iii. Pursuant to 35 IAC 244.143(d), if an operational change occurs at the source which invalidates the Episode Action Plan, a revised Episode Action Plan shall be submitted to the IEPA for review within 30 days of the change and is automatically incorporated by reference provided the revision is not expressly disapproved, in writing, by the IEPA within 30 days of receipt of the revision. In the event that the IEPA notifies the Permittee of a deficiency with any revision to the Episode Action Plan, the Permittee shall be required to revise and resubmit the Episode Action Plan within 30 days of receipt of notification to address the deficiency pursuant to Section 39.5(7)(a) of the Act.
- iv. The Episode Action Plan, as submitted by the Permittee on April 6, 2013, is incorporated herein by reference. The document constitutes the formal Episode Action Plan required by 35 IAC 244.142, addressing the actions that will be implemented to reduce SO₂, PM₁₀, NO₂, CO and VOM emissions from various emissions

units in the event of a yellow alert, red alert or emergency issued under 35 IAC 244.161 through 244.165.

- v. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep a copy of the Episode Action Plan, any amendments or revisions to the Episode Action Plan (as required by Condition 3.2(c)), and the Permittee shall also keep a record of activities completed according to the Episode Action Plan.

d. Risk Management Plan (RMP)

Should this stationary source, as defined in 40 CFR 68.3, become subject to the federal regulations for Chemical Accident Prevention in 40 CFR Part 68, then the Permittee shall submit a compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR 68.10(a); or submit a certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan, as part of the annual compliance certification required by Condition 2.6(a). This condition is imposed in this permit pursuant to 40 CFR 68.215(a)(2)(i) and (ii).

3. Title I Requirements

As of the date of issuance of this permit, there are no source-wide Title I requirements that need to be included in this Condition.

4. Synthetic Minor Limits

As of the date of issuance of this permit, there are no source-wide synthetic minor limits that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows:
 - I. Requirements in Condition 3.1(a).
 - II. Requirements in Conditions 3.2(a) and 3.2(c).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.

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E. Corrective actions or preventative measures taken.

iv. All deviation reports required in this Permit shall be identified, summarized, and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).

b. Semiannual Reporting

i. Pursuant to Section 39.5(7)(f)(i) of the Act, the Permittee shall submit Semiannual Monitoring Reports to the IEPA, Air Compliance Section, summarizing required monitoring as part of the Compliance Methods in this Permit submitted every six months as follows, unless more frequent reporting is required in other parts of this permit.

<u>Monitoring Period</u>	<u>Report Due Date</u>
January through June	July 31
July through December	January 31

ii. The Semiannual Monitoring Report must be certified by a Responsible Official consistent with Condition 2.6(b).

c. Annual Emissions Reporting

Pursuant to 35 IAC Part 254, the Source shall submit an Annual Emission Report to the Air Quality Planning Section, due by May 1 of the year following the calendar year in which the emissions took place. All records and calculations upon which the verified and reported data are based must be retained by the source.

Section 4 - Emission Unit Requirements

4.1 Wet and Dry Material Handling Systems

1. Emission Units and Operations

Emission Units	Pollutants Being Regulated	Original Construction Date	Modification/ Reconstruction Date	Air Pollution Control Devices or Measures	Monitoring Devices
Wet Material Handling					
Wet Material Stations (ST 1-4)	PM, VOM, H ₂ S	5/2005	N/A	Odor Control Scrubber System (S-1)	Scrubbant Flow & Pressure Drop
Wet Material Silos (WBS 1-4)	PM, VOM, H ₂ S	5/2005	N/A	Odor Control Scrubber System (S-1)	Scrubbant Flow & Pressure Drop
Wet Material Hoppers (DH 1-4)	PM, VOM, H ₂ S	5/2005	N/A	Odor Control Scrubber System (S-1)	Scrubbant Flow & Pressure Drop
Dry Material Handling					
Truck Loading Building	PM	5/2005	N/A	Bag Filters (BF1A or BF2A) and Odor Control Scrubber System (S-1)	Scrubbant Flow & Pressure Drop
Classifying Screens (CS 1-4)	PM	5/2005	N/A	Bag Filters (BF1A or BF2A) and Odor Control Scrubber System (S-1)	Scrubbant Flow & Pressure Drop
Collection Hoppers (CH 1-4)	PM	5/2005	N/A	Bag Filters (BF1A or BF2A) and Odor Control Scrubber System (S-1)	Scrubbant Flow & Pressure Drop
Pellet Storage Silos (PS 1-2)	PM	5/2005	N/A	Bag Filters (BF1A or BF2A) and Odor Control Scrubber System (S-1)	Scrubbant Flow & Pressure Drop

2. Applicable Requirements

For the emission units in Condition 4.1(1) above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

a. i. Opacity Requirements

A. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

ii. Compliance Method (Opacity Requirements)

Monitoring

A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, at a minimum, the Permittee shall perform observations for opacity on the operations in accordance with Method 22 for visible emissions at least once every calendar year. If visible emissions are observed, the Permittee shall take corrective action within 4 hours of such observation. Corrective action may include, but is not limited to, shut down of the operation, maintenance and repair, and/or adjustment of fuel usage. If corrective action was taken, the Permittee shall perform a follow up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity in accordance with Method 9 and Section 7.1 shall be conducted within 7 days in accordance with Condition 2.4.

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Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for each observation performed. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken including if the corrective action took place within 4 hours of the observation.
- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all Method 9 and Method 22 opacity measurements and visible emissions observations made in accordance with Condition 4.1.2(a)(ii)(A) above.

b. i. Particulate Matter Requirements (PM)

- A. Pursuant to 35 IAC 212.321(a), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit for which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, which, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c) (See Condition 7.2).
- B. Pursuant to construction permit 04110024, the Permittee shall not exceed PM emissions from the odor control scrubber system equal to 0.1 lbs/hr and 0.44 tons/year. [T1]

ii. Compliance Method (PM Requirements)

Monitoring

- A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the maximum hourly PM emissions from the odor control scrubber system with supporting calculations (lb/hour).

c. i. Volatile Organic Material Requirements (VOM)

- A. Pursuant to construction permit 04110024, the Permittee shall not exceed VOM emissions from the odor control scrubber system equal to 0.1 lbs/hr and 0.44 tons/year. [T1]

ii. Compliance Method (VOM Requirements)

Monitoring

- A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the maximum hourly VOM emissions from the odor control scrubber system with supporting calculations (lbs/hour).

d. i. Hydrogen Sulfide Requirements (H₂S)

- A. Pursuant to Construction Permit 04110024, the Permittee shall not exceed H₂S emissions from the odor control scrubber system equal to 0.1 lbs/hr and 0.44 tons/year. [T1]

ii. Compliance Method (H₂S Requirements)

Monitoring

- A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the maximum hourly H₂S emissions from the odor control scrubber system with supporting calculations (lbs/hour).

e. i. Operational and Production Requirements

- A. Pursuant to Construction Permit 04110024, the Permittee shall not process more than 28,000 tons/month and 280,000 tons/year of wet material. Also, material usage of each wet material station shall not exceed more than 220 tons/day. [T1]

ii. Compliance Method (Operational and Production Requirements)

Monitoring

- A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep daily, monthly and annual records of wet material being processed individually by each wet material station and total of all stations. The Permittee shall keep daily, monthly and annual records of total dry material throughput.
- C. Pursuant to Construction Permit 04110024, the Permittee shall keep the records of moisture content (% by weight) of the wet materials received, with supporting documentation.
- D. Pursuant to Construction Permit 04110024, the Permittee shall maintain a file that contains records of sampling and analysis that it conducts for the wet material received from MWRD Stickney Works for organics and heavy metal content, including lead. These records shall address both analyses conducted using standard USEPA Methods for the analysis of the sludge, as well as any alternative methodologies used by the Permittee for working purposes.

f. i. Work Practice Requirements

- A. Pursuant to Construction Permit 04110024, the Permittee shall operate the material handling systems in accordance with good air pollution control practices in order to minimize odors, including that material handling systems are enclosed in a building with an air handling system that vents to an odor control scrubbing system anytime when the systems are in operation.

ii. Compliance Method (Work Practice Requirements)

Monitoring

- A. Pursuant to Construction Permit 04110024, the Permittee shall monitor the pressure drop across each bag filter (baghouse) on at least a daily basis.
- B. Pursuant to Construction Permit 04110024, the Permittee shall monitor the following operating parameters of the odor control scrubber system:
- I. Scrubbant flow rate (gallons/minute); and
- II. Pressure drop across the scrubber.
- C. Pursuant to Construction Permit 04110024, each required continuous monitoring device:
- I. Shall be equipped with a data recording device.
- II. Shall be connected to interlocks that discontinue operation of the associated emission units in the event of failure of the control device.
- III. Shall be equipped with an alarm (audio or visual) that can be set to go off at a particular value of the monitored parameter. These alarm(s) shall be used if operation of the associated emission unit is not interlocked with the data recorded by the continuous monitoring system.
- D. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall conduct quarterly inspections and maintenance activities, if needed, of the odor control scrubbing system and each bag filter to ensure compliance with the work practice requirements of this permit.

Recordkeeping

- E. Pursuant to Construction Permit 04110024, the Permittee shall maintain operating, maintenance, inspection, and repair log(s) for the material handling systems, including all associated air pollution control devices.
- F. Pursuant to Construction Permit 04110024, the Permittee shall keep a log for the operation and maintenance for each continuous monitoring device.
- G. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of the monitoring data of pressure drop across each bag filter.
- H. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep daily records of scrubbant flow rate and the monitoring data of pressure drop across the odor control scrubber.

3. Non-Applicability Determinations

- a. The wet and dry material handling systems are not subject to 35 IAC 218.301 and 218.302, because these emission units are not using any organic materials, as defined in 35 IAC 211.4250(b).
- b. The wet and dry material handling systems are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because each system does not have potential pre-control device emissions of the applicable regulated air pollutant that equals or exceeds major source threshold levels.

4. Other Requirements

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
 - I. Requirements in Conditions 4.1(2)(a)(i), 4.1(2)(b)(i), 4.1(2)(c)(i), 4.1(2)(d)(i), 4.1(2)(e)(i) and 4.1(2)(f)(i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.

4.2 Drying Systems

1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Dryers (HD 1-4)	PM, VOM, NO _x , CO, SO ₂ , Lead	5/2005	N/A	Condensers (CD 1-4), Venturi Scrubbers (VS 1-4) and Thermal Oxidizer (TO 1 or TO 2)	Condenser Exhaust Temperature, VS Scrubbant Flow & Pressure Drop, TO Combustion Chamber Temperature
Coaters (CT 1-4)	PM, VOM, NO _x , CO, SO ₂ , Lead	5/2005	N/A	Condensers (CD 1-4), Venturi Scrubbers (VS 1-4) and Thermal Oxidizer (TO 1 or TO 2)	Condenser Exhaust Temperature, VS Scrubbant Flow & Pressure Drop, TO Combustion Chamber Temperature
Separation Hoppers (SH 1-4)	PM, VOM, NO _x , CO, SO ₂ , Lead	5/2005	N/A	Condensers (CD 1-4), Venturi Scrubbers (VS 1-4) and Thermal Oxidizer (TO 1 or TO 2)	Condenser Exhaust Temperature, VS Scrubbant Flow & Pressure Drop, TO Combustion Chamber Temperature
Pellet Coolers (PCO 1-4)	PM, VOM, NO _x , CO, SO ₂ , Lead	5/2005	N/A	Bag Filters (BF 1-4) and Thermal Oxidizer (TO 1 or TO 2)	BF Pressure Drop, TO Combustion Chamber Temperature
Crushers (1-4)	PM, VOM, NO _x , CO, SO ₂ , Lead	5/2005	N/A	Bag Filters (BF 1-4) and Thermal Oxidizer (TO 1 or TO 2)	BF Pressure Drop, TO Combustion Chamber Temperature

2. Applicable Requirements

For the emission units in Condition 4.2(1) above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

a. i. Opacity Requirements

A. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

ii. Compliance Method (Opacity Requirements)

Monitoring

A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, at a minimum, the Permittee shall perform observations for opacity on the operations from each associated stack or stacks in accordance with Method 22 for visible emissions at least once every calendar year. If visible emissions are observed, the Permittee shall take corrective action within 4 hours of such

observation. Corrective action may include, but is not limited to, shut down of the operation, maintenance and repair, and/or adjustment of fuel usage. If corrective action was taken, the Permittee shall perform a follow up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity in accordance with Method 9 and Section 7.1 shall be conducted within 7 days in accordance with Condition 2.4.

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for each observation performed. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken including if the corrective action took place within 4 hours of the observation.
- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all Method 9 and Method 22 opacity measurements and visible emissions observations made in accordance with Condition 4.2.2(a)(ii)(A) above.

b. i. Particulate Matter Requirements (PM)

- A. Pursuant to 35 IAC 212.321(a), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any new process emission unit for which, either alone or in combination with the emission of particulate matter from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, which, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c) (See Condition 7.2).
- B. Pursuant to Construction Permit 04110024, PM/PM₁₀ emissions from the drying systems, including combustion emissions from the associated thermal oxidizer, shall not exceed the following limits: [T1]

PM*		PM ₁₀ **	
Lbs/Hour	Tons/Year	Lbs/Hour	Drying Systems
0.50	2.19	1.15	5.04

* Filterable only

** Both filterable and condensable

ii. Compliance Method (PM/PM₁₀ Requirements)

Monitoring

- A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

Testing

- B. See Condition 4.2(2)(h)(ii).

Recordkeeping

C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of PM/PM₁₀ emissions with supporting calculations (lbs/hr and tons/yr).

c. i. Volatile Organic Material Requirements (VOM)

A. Pursuant to Construction Permit 04110024, VOM emissions from the drying systems, including combustion emissions from the associated thermal oxidizer, shall not exceed the following limits: [T1]

VOM	
Lbs/Hour	Tons/Year
0.10	0.44

ii. Compliance Method (VOM Requirements)

Monitoring

A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

B. See Condition 4.2(2)(h)(ii)(E).

Recordkeeping

C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of VOM emissions with supporting calculations (lb/hr and tons/yr).

d. i. Nitrogen Oxides Requirements (NO_x)

A. Pursuant to Construction Permit 04110024, NO_x emissions from the drying systems, including combustion emissions from the associated thermal oxidizer, shall not exceed the following limits: [T1]

NO _x	
Lbs/Hour	Tons/Year
1.91	8.35

ii. Compliance Method (NO_x Requirements)

Monitoring

A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

Testing

B. See Condition 4.2(2)(h)(ii).

Recordkeeping

C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of NO_x emissions with supporting calculations (lbs/hr and tons/yr).

e. i. **Carbon Monoxide Requirements (CO)**

- A. Pursuant to Construction Permit 04110024, CO emissions from the drying systems, including combustion emissions from the associated thermal oxidizer, shall not exceed the following limits: [T1]

CO	
Lbs/Hour	Tons/Year
1.00	4.33

ii. **Compliance Method (CO Requirements)**

Monitoring

- A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of CO emissions with supporting calculations (lbs/hr and tons/yr).

f. i. **Sulfur Dioxide Requirements (SO₂)**

- A. Pursuant to Construction Permit 04110024, SO₂ emissions from the drying systems, including combustion emissions from the associated thermal oxidizer, shall not exceed the following limits: [T1]

SO ₂	
Lbs/Hour	Tons/Year
1.52	6.66

ii. **Compliance Method (SO₂ Requirements)**

Monitoring

- A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

Testing

- B. See Condition 4.2(2)(h)(ii).

Recordkeeping

- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of SO₂ emissions with supporting calculations (lbs/hour and tons/yr).

g. i. **Lead Requirements (Pb)**

- A. Pursuant to Construction Permit 04110024, lead emissions from the drying systems, including combustion emissions from the associated thermal oxidizer, shall not exceed the following limits: [T1]

Lead	
Lbs/Hour	Tons/Year
0.01	0.05

ii. Compliance Method (lead Requirements)

Monitoring

- A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

Recordkeeping

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of the maximum hourly lead emissions from the drying systems with supporting calculations (lbs/hour).

h. i. Work Practice Requirements

- A. Pursuant to Construction Permit 04110024, the Permittee shall operate the drying systems as follows:

- I. The dryers shall be heated indirectly; and
II. The control system for each drying unit shall be in operation at all times when the drying unit is being operated.

- B. Pursuant to Section 39.5(7)(b) of the Act and the most recent compliance test conducted on August 26, 2009, the thermal oxidizer combustion chamber shall be preheated to at least the daily average temperature equal to 1,625°F or a different temperature established during the most recent scheduled or unscheduled emission test of the oxidizer when compliance with conditions of this permit is demonstrated. This temperature shall be maintained during operation of the thermal oxidizer combustion chamber.

ii. Compliance Method (Work Practice Requirements)

Testing

- A. Pursuant to Section 39.5(7)(b) of the Act, within 48 months after the issuance of this permit, the Permittee shall conduct the tests by measuring PM, NO_x, and SO₂ emissions released from the thermal oxidizer by using the following approved test methods:

Location of Sample Points:	USEPA Method 1
Gas Flow and Velocity:	USEPA Method 2
Flue Gas Weight:	USEPA Method 3
Moisture:	USEPA Method 4
Particulate Matter	USEPA Method 5
PM ₁₀	USEPA Methods 5 and 202
Sulfur Dioxide	USEPA Method 6, 6a, 6b, or 6c
Nitrogen Oxides	USEPA Method 7E

Monitoring

- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall conduct quarterly inspections and all necessary maintenance activities, if needed, of the drying systems to ensure compliance with the work practice requirements of this permit.
C. Pursuant to Construction Permit 04110024, the Permittee shall monitor temperature of the exhaust gas leaving each condenser.

- D. Pursuant to Construction Permit 04110024, the Permittee shall monitor the following operating parameters for the Venturi Scrubber for each drying system:
 - I. Scrubbant flow rate (gallons/minute); and
 - II. Pressure drop across the scrubber.
- E. Pursuant to Construction Permit 04110024, the Permittee shall calibrate, operate and maintain a continuous monitoring device on the thermal oxidizers according to vendor specifications at all times the thermal oxidizer is in use. The monitoring device shall monitor the combustion chamber temperature of each thermal oxidizer.
- F. Pursuant to Construction Permit 04110024, the Permittee shall monitor the pressure drop across each bag filter (baghouse) on at least a daily basis.
- G. Pursuant to Construction Permit 04110024, each required continuous monitoring device:
 - I. Shall be equipped with a data recording device.
 - II. Shall be connected to interlocks that discontinue operation of the associated emission units in the event of failure of the control device.
 - III. Shall be equipped with an alarm (audio or visual) that can be set to go off at a particular value of the monitored parameter. These alarm(s) shall be used if operation of the associated emission unit is not interlocked with the data recorded by the continuous monitoring system.

Recordkeeping

- H. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep an operating and maintenance log for the drying systems, including the control devices, along with the records of inspections performed.
- I. Pursuant to Construction Permit 04110024, the Permittee shall collect and record all of the following information each day for the thermal oxidizer:
 - I. Temperature monitoring data.
 - II. A log of the operating time for the capture system, control device, monitoring equipment and the associated emission units.
 - III. A maintenance log for the capture system, control device and monitoring equipment detailing all routine and nonroutine maintenance performed including dates and duration of any outages.
- J. Pursuant to construction permit 04110024, the Permittee shall keep a log for the operation and maintenance for each continuous monitoring device.
- K. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep daily records of scrubbant flow rate and the monitoring data of pressure drop across the venturi scrubbers.
- L. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep daily records of temperature of the exhaust gas leaving each condenser.

- M. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records of the monitoring data of pressure drop across each bag filter.
- N. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep the records of the tests conducted at the source, with supporting documentation.

3. Non-Applicability Determinations

- a. The drying systems are not subject to 35 IAC 218.301 and 218.302, because these emission units are not using any organic materials, as defined in 35 IAC 211.4250(b).
- b. The dryers not being subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Mercury, 40 CFR Part 61, Subpart E, because the sludge in the dryers is not heated directly with combustion gases as described in 40 CFR 61.51(m).
- c. The drying systems are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because each system does not have potential pre-control device emissions of any regulated air pollutant that equals or exceeds major source threshold levels.

4. Other Requirements

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
 - I. Requirements in Conditions 4.2.2(a)(i), 4.2.2(b)(i), 4.2.2(c)(i), 4.2.2(d)(i), 4.2.2(e)(i), 4.2.2(f)(i), 4.2.2(g)(i) and 4.2.2(h)(i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.

4.3 Thermal Oil Heaters

1. Emission Units and Operations

<i>Emission Units</i>	<i>Pollutants Being Regulated</i>	<i>Original Construction Date</i>	<i>Modification/ Reconstruction Date</i>	<i>Air Pollution Control Devices or Measures</i>	<i>Monitoring Devices</i>
Thermal Oil Heaters (TOH 1-3); Heat input 27 mmBtu/hr each with Low-NO _x Burners	PM, VOM, NO _x , CO, SO ₂ , Lead, HCL, Formaldehyde	5/2005	N/A	Venturi Scrubber and Scrubber (VS & S)*	Scrubbant Flow & Pressure Drop, pH of Caustic Scrubbant

* Scrubber system is in operation when digester gas or reclaimed oil is being burned.

2. Applicable Requirements

For the emission units in Condition 4.3(1) above, the Permittee shall comply with the following applicable requirements pursuant to Sections 39.5(7)(a), 39.5(7)(b), and 39.5(7)(d) of the Act.

a. i. Opacity Requirements

A. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as allowed by 35 IAC 212.123(b) and 212.124.

ii. Compliance Method (Opacity Requirements)

Monitoring

A. Pursuant to Sections 39.5(7)(b) and (d) of the Act, at a minimum, the Permittee shall perform observations for opacity on the operations from each associated stack or stacks in accordance with Method 22 for visible emissions at least once every calendar year. If visible emissions are observed, the Permittee shall take corrective action within 4 hours of such observation. Corrective action may include, but is not limited to, shut down of the operation, maintenance and repair, and/or adjustment of fuel usage. If corrective action was taken, the Permittee shall perform a follow up observation for visible emissions in accordance with Method 22. If visible emissions continue, then measurements of opacity in accordance with Method 9 and Section 7.1 shall be conducted within 7 days in accordance with Condition 2.4.

Recordkeeping

B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for each observation performed. These records shall include, at a minimum: date and time the observation was performed, name(s) of observing personnel, identification of which equipment was observed, whether or not the equipment was running properly, the findings of the observation including the presence of any visible emissions, and a description of any corrective action taken including if the corrective action took place within 4 hours of the observation.

C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall keep records for all Method 9 and Method 22 opacity measurements and visible emissions observations made in accordance with Condition 4.2.2(a)(ii)(A) above.

b. i. Particulate Matter Requirements (PM)

- A. Pursuant to 35 IAC 212.206, no person shall cause or allow the emission of particulate matter (PM) into the atmosphere in any one hour period to exceed 0.15 kg of particulate matter per MW-hr of actual heat input from combustion units using liquid fuel (0.10 lbs/mmBtu).
- B. Pursuant to Construction Permit 04110024, PM/PM₁₀* emissions from the thermal oil heaters shall not exceed the following limits: [T1]

I. Total

Tons/Month	Tons/Year
0.26	2.56

II. Each

Lbs/mmBtu	
Oil	Gaseous Fuel
0.0082	0.008

* Both filterable and condensable

ii. Compliance Method (PM Requirements)

Monitoring

- A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).
- B. See also Condition 4.3(2)(j)(ii).

Recordkeeping

- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of PM emissions with supporting calculations.
- D. See also Condition 4.3(2)(j)(ii).

c. i. Volatile Organic Material Requirements (VOM)

- A. Pursuant to Construction Permit 04110024, VOM emissions from the thermal oil heaters shall not exceed the following limits: [T1]

I. Total

Tons/Month	Tons/Year
0.19	1.86

II. Each

Lbs/mmBtu	
Oil	Gaseous Fuel
0.002	0.006

ii. Compliance Method (VOM Requirements)

Monitoring

- A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).
- B. See also Condition 4.3(2)(j)(ii).

Recordkeeping

- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of VOM emissions with supporting calculations.
- D. See also Condition 4.3(2)(j)(ii).

d. i. Nitrogen Oxides Requirements (NO_x)

- A. Pursuant to Construction Permit 04110024, NO_x emissions from the thermal oil heaters shall not exceed the following limits [T1]:

I. Total

Tons/Month	Tons/Year
3.12	31.25

II. Each

Lbs/mmBtu	
Oil	Gaseous Fuel
0.100	0.050

ii. Compliance Method (NO_x Requirements)

Monitoring

- A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).
- B. See also Condition 4.3(2)(j)(ii).

Recordkeeping

- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of NO_x emissions with supporting calculations.

e. i. Carbon Monoxide Requirements (CO)

- A. Pursuant to 35 IAC 216.121, no person shall cause or allow the emission of carbon monoxide (CO) into the atmosphere from any fuel combustion emission unit to exceed 200 ppm, corrected to 50 percent excess air.
- B. Pursuant to Construction Permit 04110024, CO emissions from the thermal oil heaters shall not exceed the following limits: [T1]

I. Total

Tons/Month	Tons/Year
2.83	28.33

II. Each

Lbs/mmBtu	
Oil	Gaseous Fuel
0.035	0.082

ii. Compliance Method (CO Requirements)

Monitoring

- A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).
- B. See also Conditions 4.3(2)(j)(ii) and 4.3(2)(k)(i).

Recordkeeping

- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of CO emissions with supporting calculations.
- D. See also Condition 4.3(2)(j)(ii) and 4.3(2)(k)(ii).

f. i. Sulfur Dioxide Requirements (SO₂)

- A. Pursuant to 35 IAC 214.122(b), no person shall cause or allow the emission of sulfur dioxide into the atmosphere in any one hour period from the combustion units, to exceed 1.55 kg of sulfur dioxide (SO₂) per MW-hour of actual heat input when residual fuel oil is burned (1.0 lbs/mmBtu) or 0.46 kg of sulfur dioxide (SO₂) per MW-hr of actual heat input when distillate fuel oil is burned (0.3 lbs/mmBtu).
- B. Pursuant to 40 CFR 60.42c(d), the heaters shall not combust oil that contains greater than 0.5 weight percent sulfur.
- C. Pursuant to Construction Permit 04110024, SO₂ emissions from the thermal oil heaters shall not exceed the following limits: [T1]

I. Total

Tons/Month	Tons/Year
1.63	16.25

II. Each

Lbs/mmBtu	
Oil	Gaseous Fuel
0.052	0.010

ii. Compliance Method (SO₂ Requirements)

Monitoring

- A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).
- B. See also Condition 4.3(2)(j)(ii).

Recordkeeping

C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of SO₂ emissions with supporting calculations.

D. See also Condition 4.3(2)(j)(ii).

g. i. Lead Requirements (Pb)

A. Pursuant to Construction Permit 04110024, Lead emissions from the thermal oil heaters shall not exceed the following limits: [T1]

I. Total

Tons/Month	Tons/Year
0.03	0.30

II. Each

Lbs/mmBtu	
Oil	Gaseous Fuel
0.001	----

ii. Compliance Method (lead Requirements)

Monitoring

A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).

B. See also Condition 4.3(2)(j)(ii).

Recordkeeping

C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of lead emissions with supporting calculations.

D. See also Condition 4.3(2)(j)(ii).

h. i. Hydrogen Chloride Requirements (HCL)

A. Pursuant to Construction Permit 04110024, HCL emissions from the thermal oil heaters shall not exceed the following limits: [T1]

I. Total

Tons/Month	Tons/Year
0.016	0.16

II. Each

Lbs/mmBtu	
Oil	Gaseous Fuel
0.0005	----

ii. Compliance Method (HCL Requirements)

Monitoring

- A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).
- B. See also Condition 4.3(2)(j)(ii).

Recordkeeping

- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of HCL emissions with supporting calculations.
- D. See also Condition 4.3(2)(j)(ii).

i. i. Formaldehyde Requirements

- A. Pursuant to Construction Permit 04110024, formaldehyde emissions from the thermal oil heaters shall not exceed the following limits: [T1]

I. Total

Tons/Month	Tons/Year
0.013	0.13

II. Each

Lbs/mmBtu	
Oil	Gaseous Fuel
0.00043	0.0001

ii. Compliance Method (lead Requirements)

Monitoring

- A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).
- B. See also Condition 4.3(2)(j)(ii).

Recordkeeping

- C. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall maintain records of formaldehyde emissions with supporting calculations.
- D. See also Condition 4.3(2)(j)(ii).

j. i. Operational and Production Requirements

- A. Pursuant to Construction Permit 04110024, the maximum heat input rate of each heater shall not exceed 27 million Btu/hour. [T1].
- B. Pursuant to Construction Permit 04110024, the total amount of fuel fired in all heaters shall not exceed 62,490 million Btu/month and 624,900 million Btu/year. [T1].
- C. Pursuant to Construction Permit 04110024, the total amount of oil fired in all heaters shall not exceed 437,000 gallons/month and 4,370,000 gallons/year. [T1]
- D. Pursuant Construction Permit 04110024, the reclaimed oil fired in the affected heaters shall not constitute a mixture of used oil and hazardous

waste that is regulated as hazardous waste, as provided by 35 IAC 739.110(b), and shall not exceed any of the following specifications:

- I. Total halogens content:

1000 ppm by weight; or

4000 ppm by weight, provided that the Permittee demonstrates that the oil does not contain hazardous waste (for example, by showing that the oil does not contain significant concentrations of halogenated hazardous constituents listed in Appendix H of 35 IAC Part 721).
- II. Maximum ash content: 0.1 percent weight.
- III. Maximum lead content: 100 ppm by weight.
- E. Pursuant to Construction Permit 04110024, digester gas generated by Stickney Water Reclamation Plant is allowed to be burned by thermal oil heaters.

ii. Compliance Method (Operational and Production Requirements)

Monitoring

- A. Pursuant to Section 39.5(7)(b), compliance with annual limits shall be determined on a monthly basis from the sum of the data for the current month plus the preceding 11 months (running 12 month total).
- B. Pursuant to Construction Permit 04110024, the Permittee shall perform the following sampling procedures of the different fuels used by thermal oil heaters:
 - I. Take representative samples of the reclaimed oil fired in the heaters and have the samples analyzed for heat content (Btu/gallon and Btu/pound) and sulfur, ash, total halogens, lead and other heavy metals contents (percent or ppm by weight) by a qualified laboratory using appropriate ASTM or equivalent methods.
 - II. If a sample contains more than 1000 ppm total halogens, the sample shall also be analyzed for the presence of hazardous waste, for example, by analyzing for halogenated hazardous constituents as listed in Appendix H of 35 IAC Part 721.
 - III. For this purpose, separate sample shall be taken for the oil provided by each supplier of reclaimed oil, with an initial sample collected and analyzed when such oil is first accepted from a particular supplier and subsequent samples collected and analyzed on an annual basis for as long as a supplier is providing reclaimed oil for the heaters.
 - IV. The Permittee shall take representative samples of the digester gas fired in the heaters on a regular basis and have the samples analyzed for heat content (Btu/scf and pound) and sulfur content (ppm by weight) by a qualified laboratory using appropriate ASTM or equivalent methods. For this purpose, the initial sample shall be taken prior to firing digester gas and subsequent samples shall be taken on at least an annual basis for as long as digester gas is routinely fired in the heaters.

Testing

- C. Pursuant to Construction Permit 04110024, the Permittee shall conduct the tests of the following emissions within 90 days when reclaimed oil is first burned in a heater:

The VOM, PM, PM₁₀, NO_x, CO, SO₂, metals, hydrogen chloride and formaldehyde emissions shall be tested by the methods and procedures identified below.

- D. Pursuant to Construction Permit 04110024, the Permittee shall conduct the tests of the following emissions by the end of the next calendar year when the heat input of the digester gases burned in the heaters in a calendar year exceeds 10 percent of the total heat input to the heaters:

The VOM, NO_x, CO, SO₂, and formaldehyde emissions shall be tested by the methods and procedures identified below.

- E. Pursuant to Construction Permit 04110024, the following methods and procedures shall be used for testing of emissions, unless another USEPA Method is approved by the Illinois EPA:

Location of Sample Points	USEPA Method 1
Gas Flow and Velocity	USEPA Method 2
Flue Gas Weight	USEPA Method 3
Moisture	USEPA Method 4
Particulate Matter	USEPA Method 5
PM ₁₀	USEPA Methods 5 and 202
Sulfur Dioxide	USEPA Method 6, 6a, 6b, or 6c
Nitrogen Oxides	USEPA Method 7
Opacity	USEPA Method 9
Carbon Monoxide	USEPA Method 10
Hydrogen Sulfide	USEPA Method 15
Volatile Organic Material	USEPA Method 18 and 25 or 25A (if outlet VOM cont. < 50 ppmv as carbon, non-methane)
Hydrogen Chloride	USEPA Method 26
Metals, Including Lead	USEPA Method 29
Formaldehyde	USEPA Method 320*

* Equivalent test methods may be proposed by the Permittee and approved by the Illinois EPA.

Recordkeeping

Pursuant to construction permit 04110024, the Permittee shall keep the following records:

- F. A file with documentation for the maximum firing rate(s) of each heater (million Btu/hour), with supporting documentation.
- G. A file containing fuel certifications from each fuel supplier for reclaimed oil detailing the following specifications for the oil supplied to the plant:
- I. Maximum and minimum heat content (Btu/gallon and Btu/pound);
 - II. Maximum ash and sulfur contents (percents by weight);
 - III. Maximum contents of lead and other individual heavy metals (ppm by weight);
 - IV. Maximum total halogen content (ppm by weight); and

- V. If the specification for total halogen content is greater than 1000 ppm by weight, a certification that hazardous waste has not been mixed with the oil and the oil does not otherwise constitute hazardous waste, as provided by 35 IAC 739.110(b), with supporting material explaining how the supplier assures that this requirements is met.
- H. A file containing the records for each shipment of fuel oil received at the plant:
 - I. Name of supplier;
 - II. Date received;
 - III. Type of oil; and
 - IV. Amount received.
- I. Records for the results of the analyses of the fuel samples taken.
- J. Pursuant to 40 CFR 60.48c(g) and Construction Permit 04110024, the Permittee shall maintain records of fuel usage of the heaters by type of fuel (gallons or cubic feet/month and gallons or cubic feet/year) and the percentage of the heat input, on a Btu basis, provided to the heaters by different fuels on a calendar year basis, with supporting calculations.
- K. Copies of the result of the stack tests conducted by the Permittee.

k. i. Work Practice Requirements

- A. Pursuant to Construction Permit 04110024, the Permittee shall operate the oil heaters as follows:
 - I. Each heater shall be operated and maintained with low NO_x burners.
 - II. The heaters, including the burners and associated control system, shall be operated and maintained in accordance with good air pollution control practices to minimize emissions.
 - III. The heaters shall be operated and maintained in accordance with written procedures developed and maintained by the Permittee, which procedures shall appropriately address the firing of different fuels in the heaters and require operation of the scrubber system in a manner that is consistent with the operating conditions of the system during the most recent emissions testing.
- B. Pursuant to Section 39.5(7)(b) of the Act, the Permittee shall conduct semi-annual inspections of each heater and associated scrubber systems and perform all needed maintenance or repair activities, if required by such inspections. If the scrubber systems have not operated in the previous six months due to the heaters having fired exclusively natural gas, inspection of the scrubber system is not required.
- C. Pursuant to Construction Permit 04110024 and Section 39.5(7)(b) of the Act, the associated scrubber system shall be in operation any time when digester gas or reclaimed oil is being burned.
- D. Pursuant to Section 39.5(7)(d), the Permittee shall comply with the following tune-up requirements for each heater and conduct such tune-ups at least once every 48 months after the previous tune-up:

- I. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (the Permittee may delay the burner inspection until the next scheduled unit shutdown, but each burner shall be inspected at least once every 48 months).
- II. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
- III. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly.
- IV. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.
- V. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made).

ii. Compliance Method (Work Practice Requirements)

Monitoring

- A. Pursuant to Construction Permit 04110042, the Permittee shall monitor the following parameters of the scrubber system:
 - I. Scrubbant flow rate (gallons/minute);
 - II. Pressure drop across the scrubber; and
 - III. pH of the scrubbant, for the caustic scrubber.
- B. Pursuant to Construction Permit 04110024, each required continuous monitoring device:
 - I. Shall be equipped with a data recording device.
 - II. Shall be connected to interlocks that discontinue operation of the associated emission units in the event of failure of the control device.
 - III. Shall be equipped with an alarm (audio or visual) that can be set to go off at a particular value of the monitored parameter. These alarm(s) shall be used if operation of the associated emission unit is not interlocked with the data recorded by the continuous monitoring system.

Recordkeeping

- C. Pursuant to Construction Permit 04110042, the Permittee shall keep the following records related to the operation of the scrubber system:
 - I. Type of additive, if other than caustic;
 - II. Amount of additive used in the scrubbant (daily);
 - III. Flow rate make-up water for scrubbant (4 times/shift); and

- IV. Flow rate of scrubbant additive (Caustic), if any (4 times/shift).
- D. Pursuant to Construction Permit 04110042, the Permittee shall keep the following operating log(s) or other records for the heaters and associated control system:
 - I. Information identifying periods when heater(s) were not in service.
 - II. For periods when heater(s) were in service and operating normally, relevant process information to generally confirm normal operation.
 - III. For periods when heater(s) were in service and not operating normally, identification of each such period, with detailed information describing the operation of the unit(s) and the potential consequences for additional emissions from the unit(s), with explanation.
- E. Pursuant to Construction Permit 04110042, the Permittee shall keep the following inspection, maintenance and repair log(s) or other records for the heaters and associated control system:
 - I. Identification of equipment, with date, time, responsible employee and type of activity.
 - II. For inspections, a description of the inspection, findings, and any recommended actions, with reason.
 - III. For maintenance and repair activity, a description actions taken, reason for action, e.g., preventative measure or corrective action as a result of inspection, and the condition of equipment following completion of the activity.
- F. Pursuant to Construction Permit 04110024, the Permittee shall keep a log for the operation and maintenance for each continuous monitoring device.
- G. Pursuant to Section 39.5(7)(b) of the Act, maintain onsite and submit, if requested by the Illinois EPA, reports containing the following information related to tune-up requirements:
 - I. The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured before and after the tune-up of the heater.
 - II. A description of any corrective actions taken as a part of the tune-up of the heater.

3. Non-Applicability Determinations

- a. Pursuant to 35 IAC 218.303, the oil heaters are not subject to 35 IAC 218.301 and 218.302, because they are fuel combustion emission units.
- b. The oil heaters are not subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) for Major Stationary Sources, because each heater does not have potential pre-control device emissions of the applicable regulated air pollutant that equals or exceeds major source threshold levels.
- c. The oil heaters are not subject to the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters, 40 CFR 63, Subpart DDDDD, since this plant and MWRD Stickney Works together are not a major source of hazardous pollutants.

Metropolitan Biosolids Management, LLC
I.D. No.: 031051APL
Permit No.: 08090012

Date Received: 09/08/08
Date Issued: TBD

- d. The oil heaters are not subject to the National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources, 40 CFR 63, Subpart JJJJJJ because, pursuant to 40 CFR 63.11237, the oil heaters do not meet the definition of a boiler.

4. Other Requirements

As of the date of issuance of this permit, there are no other requirements that need to be included in this Condition.

5. Reporting Requirements

The Permittee shall submit the following information pursuant to Section 39.5(7)(f) of the Act. Addresses are included in Attachment 3.

a. Prompt Reporting

- i. A. Pursuant to Section 39.5(7)(f)(ii) of the Act, the Permittee shall promptly notify the IEPA, Air Compliance Section, within 30 days of deviations from applicable requirements as follows unless a different period is specified by a particular permit provision, i.e., NSPS or NESHAP requirement:
 - I. Requirements in Conditions 4.3.2(a)(i), 4.3.2(b)(i), 4.3.2(c)(i), 4.3.2(d)(i), 4.3.2(e)(i), 4.3.2(f)(i), 4.3.2(g)(i), 4.3.2(h)(i), 4.3.2(i)(i), 4.3.2(j)(i), and 4.3.2(k)(i).
- B. All such deviations shall be summarized and reported as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- ii. The Permittee shall notify the IEPA, Air Compliance Section, of all other deviations as part of the Semiannual Monitoring Report required by Condition 3.5(b).
- iii. The deviation reports shall contain at a minimum the following information:
 - A. Date and time of the deviation.
 - B. Emission unit(s) and/or operation involved.
 - C. The duration of the event.
 - D. Probable cause of the deviation.
 - E. Corrective actions or preventative measures taken.

Section 5 - Additional Title I Requirements

This Section is reserved for Title I requirements not specified in Sections 3 or 4. As of the date of issuance of this permit, there are no Title I requirements that need to be separately addressed in this Section.

Section 6 - Insignificant Activities Requirements

1. Insignificant Activities Subject to Specific Regulations

This condition is reserved for insignificant activities, as defined in 35 IAC 201.210 and 201.211, which are subject to specific standards promulgated pursuant Sections 111, 112, 165, or 173 of the Clean Air Act, see Sections 9.1(d) and 39.5(6)(a) of the Act. As of the date of issuance of this permit, there are no such insignificant activities present at the source.

2. Insignificant Activities in 35 IAC 201.210(a)

This condition is reserved for insignificant activities, as defined in 35 IAC 201.210 and 201.211, which are not identified in Condition 6.1. As of the date of issuance of this permit, there are no such insignificant activities present at the source

<i>Insignificant Activity</i>	<i>Number of Units</i>	<i>Insignificant Activity Category</i>
Sulfuric Acid Tank	1	35 IAC 201.210(a)(2) or (a)(3)
Direct combustion units used for comfort heating and fuel combustion emission units as further detailed in 35 IAC 201.210(a)(4).	8	35 IAC 201.210(a)(4)
Storage tanks of virgin or rerefined distillate oil, hydrocarbon condensate from natural gas pipeline or storage systems, lubricating oil, or residual fuel oils.	1	35 IAC 201.210(a)(11)
Any size storage tanks containing exclusively soaps, detergents, surfactants, waxes, glycerin, vegetable oils, greases, animal fats, sweetener, corn syrup, aqueous salt solutions, or aqueous caustic solutions where an organic solvent has not been mixed.	4	35 IAC 201.210(a)(17)

3. Insignificant Activities in 35 IAC 201.210(b)

Pursuant to 35 IAC 201.210, the source has identified insignificant activities as listed in 35 IAC 201.210(b)(1) through (28) as being present at the source. The source is not required to individually list the activities.

4. Applicable Requirements

Insignificant activities in Conditions 6.1 and 6.2 are subject to the following general regulatory limits notwithstanding status as insignificant activities. The Permittee shall comply with the following requirements, as applicable:

- a. Pursuant to 35 IAC 212.123(a), no person shall cause or allow the emission of smoke or other particulate matter, with an opacity greater than 30 percent, into the atmosphere from any emission unit other than those emission units subject to 35 IAC 212.122, except as provided in 35 IAC 212.123(b) and 212.124.
- b. Pursuant to 35 IAC 212.321 (see Conditions 7.2(a)), no person shall cause or allow the emission of particulate matter into the atmosphere in any one hour period from any process emission unit which, either alone or in combination with the emission of particulate matter from all other similar process emission units at a source or premises, exceed the allowable emission rates specified 35 IAC 212.321 or 212.322 and 35 IAC Part 266.
- c. Pursuant to 35 IAC 214.301, no person shall cause or allow the emission of sulfur dioxide into the atmosphere from any process emission source to exceed 2,000 ppm, except as provided in 35 IAC Part 214.

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5. Compliance Method

Pursuant to Section 39.5(7)(b) of the Act, the source shall maintain records of the following items for the insignificant activities in Conditions 6.1 and 6.2:

- a. List of all insignificant activities, including insignificant activities added as specified in Condition 6.6, the categories the insignificant activities fall under, and supporting calculations as needed for any insignificant activities listed in 35 IAC 201.210(a)(1) through (3).
- b. Potential to emit emission calculations before any air pollution control device for any insignificant activities listed in 35 IAC 201.210(a)(1) through (3).

6. Notification Requirements for Insignificant Activities

The source shall notify the IEPA accordingly to the addition of insignificant activities:

a. Notification 7 Days in Advance

- i. Pursuant to 35 IAC 201.212(b), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a)(1) and 201.211 and is not currently identified in Conditions 6.1 or 6.2, a notification to the IEPA Permit Section 7 days in advance of the addition of the insignificant activity is required. Addresses are included in Attachment 3. The notification shall include the following pursuant to 35 IAC 201.211(b):
 - A. A description of the emission unit including the function and expected operating schedule of the unit.
 - B. A description of any air pollution control equipment or control measures associated with the emission unit.
 - C. The emissions of regulated air pollutants in lb/hr and ton/yr.
 - D. The means by which emissions were determined or estimated.
 - E. The estimated number of such emission units at the source.
 - F. Other information upon which the applicant relies to support treatment of such emission unit as an insignificant activity.
- ii. Pursuant to 35 IAC 201.212(b), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a)(2) through 201.210(a)(18) and is not currently identified in Conditions 6.1 or 6.2, a notification to the IEPA Permit Section 7 days in advance of the addition of the insignificant activity is required. Addresses are included in Attachment 3.
- iii. Pursuant to Sections 39.5(12)(a)(i)(b) and 39.5(12)(b)(iii) of the Act, the permit shield described in Section 39.5(7)(j) of the Act (see Condition 2.7) shall not apply to any addition of an insignificant activity noted above.

b. Notification Required at Renewal

Pursuant to 35 IAC 201.212(a) and 35 IAC 201.146(kkk), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(a) and is currently identified in Conditions 6.1 or 6.2, a notification is not required until the renewal of this permit.

c. Notification Not Required

Pursuant to 35 IAC 201.212(c) and 35 IAC 201.146(kkk), for the addition of an insignificant activity that would be categorized under 35 IAC 201.210(b) as described in Condition 6.3, a notification is not required.

Section 7 - Other Requirements

1. Testing

- a. Pursuant to Section 39.5(7)(a) of the Act, a written test protocol shall be submitted at least sixty (60) days prior to the actual date of testing, unless it is required otherwise in applicable state or federal statutes. The IEPA may at the discretion of the Compliance Section Manager (or designee) accept a protocol less than 60 days prior to testing provided it does not interfere with the IEPA's ability to review and comment on the protocol and does not deviate from the applicable state or federal statutes. The protocol shall be submitted to the IEPA, Compliance Section and IEPA, Stack Test Specialist for its review. Addresses are included in Attachment 3. This protocol shall describe the specific procedures for testing, including as a minimum:
 - i. The name and identification of the emission unit(s) being tested.
 - ii. Purpose of the test, i.e., permit condition requirement, IEPA or USEPA requesting test.
 - iii. The person(s) who will be performing sampling and analysis and their experience with similar tests.
 - iv. The specific conditions under which testing will be performed, including a discussion of why these conditions will be representative of maximum emissions and the means by which the operating parameters for the emission unit and any control equipment will be determined.
 - v. The specific determinations of emissions and operation which are intended to be made, including sampling and monitoring locations.
 - vi. The test method(s) that will be used, with the specific analysis method, if the method can be used with different analysis methods. Include if emission tests averaging of 35 IAC 283 will be used.
 - vii. Any minor changes in standard methodology proposed to accommodate the specific circumstances of testing, with detailed justification. This shall be included as a waiver of the test procedures. If a waiver has already been obtained by the IEPA or USEPA, then the waiver shall be submitted.
 - viii. Any proposed use of an alternative test method, with detailed justification. This shall be included as a waiver of the test procedures. If a waiver has already been obtained by the IEPA or USEPA, then the waiver shall be submitted.
 - ix. Sampling of materials, QA/QC procedures, inspections, etc.
- b. The IEPA, Compliance Section shall be notified prior to these tests to enable the IEPA to observe these tests pursuant to Section 39.7(a) of the Act as follows:
 - i. Notification of the expected date of testing shall be submitted in writing a minimum of thirty (30) days prior to the expected test date, unless it is required otherwise in applicable state or federal statutes.
 - ii. Notification of the actual date and expected time of testing shall be submitted in writing a minimum of five (5) working days prior to the actual date of the test. The IEPA may at its discretion of the Compliance Section Manager (or designee) accept notifications with shorter advance notice provided such notifications will not interfere with the IEPA's ability to observe testing.
- c. Copies of the Final Report(s) for these tests shall be submitted to the IEPA, Compliance Section within fourteen (14) days after the test results are compiled and finalized but

no later than ninety (90) days after completion of the test, unless it is required otherwise in applicable state or federal statutes, or the IEPA may at the discretion of the Compliance Section Manager (or designee) agree upon an alternative date in advance pursuant to Section 39.7(a) of the Act. The Final Report shall include as a minimum:

- i. General information including emission unit(s) tested.
 - ii. A summary of results.
 - iii. Discussion of conditions during each test run (malfunction/breakdown, startup/shutdown, abnormal processing, etc.).
 - iv. Description of test method(s), including description of sampling points, sampling train, analysis equipment, and test schedule.
 - v. Detailed description of test conditions, including:
 - A. Process information, i.e., mode(s) of operation, process rate, e.g. fuel or raw material consumption.
 - B. Control equipment information, i.e., equipment condition and operating parameters during testing.
 - C. A discussion of any preparatory actions taken, i.e., inspections, maintenance and repair.
 - vi. Data and calculations, including copies of all raw data sheets and records of laboratory analyses, sample calculations, and data on equipment calibration.
 - vii. An explanation of any discrepancies among individual tests or anomalous data.
 - viii. Results of the sampling of materials, QA/QC procedures, inspections, etc.
 - ix. Discussion of whether protocol was followed and description of any changes to the protocol if any occurred.
 - x. Demonstration of compliance showing whether test results are in compliance with applicable state or federal statutes.
- d. Copies of all test reports and other test related documentation shall be kept on site as required by Condition 2.5(b) pursuant to Section 39.5(7)(e)(ii) of the Act.

2. PM Process Weight Rate Requirements

a. New Process Emission Units - 35 IAC 212.321

New Process Emission Units For Which Construction or Modification Commenced On or After April 14, 1972. [35 IAC 212.321]

- i. No person shall cause or allow the emission of PM into the atmosphere in any one hour period from any new process emission unit which, either alone or in combination with the emission of PM from all other similar process emission units for which construction or modification commenced on or after April 14, 1972, at a source or premises, exceeds the allowable emission rates specified in 35 IAC 212.321(c). See Condition 7.2(a)(iii) below. [35 IAC 212.321(a)]
- ii. Interpolated and extrapolated values of the data in 35 IAC 212.321(c) shall be determined by using the equation: [35 IAC 212.321(b)]

$$E = A(P)^B$$

Where:

P = Process weight rate (T/hr)
E = Allowable emission rate (lbs/hr)

A. Process weight rates of less than 450 T/hr:

A = 2.54
B = 0.53

B. Process weight rates greater than or equal to 450 T/hr:

A = 24.8
B = 0.16

iii. Limits for New Process Emission Units [35 IAC 212.321(c)]:

<u>P</u> (T/hr)	<u>E</u> (lbs/hr)	<u>P</u> (T/hr)	<u>E</u> (lbs/hr)
0.05	0.55	25.00	14.00
0.10	0.77	30.00	15.60
0.20	1.10	35.00	17.00
0.30	1.35	40.00	18.20
0.40	1.58	45.00	19.20
0.50	1.75	50.00	20.50
0.75	2.40	100.00	29.50
1.00	2.60	150.00	37.00
2.00	3.70	200.00	43.00
3.00	4.60	250.00	48.50
4.00	5.35	300.00	53.00
5.00	6.00	350.00	58.00
10.00	8.70	400.00	62.00
15.00	10.80	450.00	66.00
20.00	12.50	500.00	67.00

3. Emissions Reduction Market System (ERMS) Requirements

- a. Pursuant to 35 IAC Part 205, this source is considered a "participating source" for purposes of the ERMS as a single source with adjacent Metropolitan Water Reclamation District of Greater Chicago/Stickney Water Reclamation Plant, I.D.031300AAL.

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b. Obligation to Hold Allotment Trading Units (ATUs)

- i. Pursuant to 35 IAC 205.150(c)(1) and 35 IAC 205.720, and as further addressed by Condition 7.3(g), as of December 31 of each year, this source shall hold ATUs in its account in an amount not less than the ATU equivalent of its VOM emissions during the preceding seasonal allotment period (May 1 - September 30), not including VOM emissions from the following, or the source shall be subject to "emissions excursion compensation," as described in Condition 7.3(d):
 - A. VOM emissions from insignificant emission units and activities as identified in Section 6 of this permit, in accordance with 35 IAC 205.220.
 - B. Excess VOM emissions associated with startup, malfunction, or breakdown of an emission unit as authorized in Section 4 of this permit, in accordance with 35 IAC 205.225.
 - C. Excess VOM emissions to the extent allowed by a Variance, Consent Order, or Compliance Schedule, in accordance with 35 IAC 205.320(e)(3).
 - D. Excess VOM emissions that are a consequence of an emergency as approved by the IEPA, pursuant to 35 IAC 205.750.
 - E. VOM emissions from certain new and modified emission units as addressed by Condition 7.3(g)(ii), if applicable, in accordance with 35 IAC 205.320(f).
- ii. In accordance with 35 IAC 205.150(c)(2), notwithstanding the Condition 7.3(b)(i) above, if a source commences operation of a major modification, pursuant to 35 IAC Part 203, the source shall hold ATUs in an amount not less than 1.3 times its seasonal VOM emissions attributable to such major modification during the seasonal allotment period, determined in accordance with the construction permit for such major modification or applicable provisions in Section 4 of this permit.

c. Market Transactions

- i. As specified in 35 IAC 205.610(a), the source shall apply to the IEPA for and obtain authorization for a Transaction Account prior to conducting any market transactions.
- ii. Pursuant to 35 IAC 205.610(b), the Permittee shall promptly submit to the IEPA any revisions to the information submitted for its Transaction Account.
- iii. Pursuant to 35 IAC 205.620(a), the source shall have at least one account officer designated for its Transaction Account.
- iv. Any transfer of ATUs to or from the source from another source or general participant must be authorized by a qualified Account Officer designated by the source and approved by the IEPA, in accordance with 35 IAC 205.620, and the transfer must be submitted to the IEPA for entry into the Transaction Account database.

d. Emissions Excursion Compensation

Pursuant to 35 IAC 205.720, if the source fails to hold ATUs in accordance with Condition 7.3(b), it shall provide emissions excursion compensation in accordance with the following:

- i. Upon receipt of an Excursion Compensation Notice issued by the IEPA, the source shall purchase ATUs from the ACMA in the amount specified by the notice, as follows:

- A. The purchase of ATUs shall be in an amount equivalent to 1.2 times the emissions excursion; or
 - B. If the source had an emissions excursion for the seasonal allotment period immediately before the period for the present emissions excursion, the source shall purchase ATUs in an amount equivalent to 1.5 times the emissions excursion.
- ii. If requested in accordance with paragraph 7.3(d)(iii) below or in the event that the ACMA balance is not adequate to cover the total emissions excursion amount, the IEPA will deduct ATUs equivalent to the specified amount or any remaining portion thereof from the ATUs to be issued to the source for the next seasonal allotment period.
 - iii. Pursuant to 35 IAC 205.720(c), within 15 days after receipt of an Excursion Compensation Notice, the Owner or Operator may request that ATUs equivalent to the amount specified be deducted from the source's next seasonal allotment by the IEPA, rather than purchased from the ACMA.
- e. Quantification of Seasonal VOM Emissions
- i. Pursuant to 35 IAC 205.315(b), the methods and procedures specified in Sections 3 and 4 of this permit for determining VOM emissions and compliance with VOM emission limitations shall be used for determining seasonal VOM emissions for purposes of the ERMS, with the following exceptions:

No exceptions
 - ii. In accordance with 35 IAC 205.750, the Permittee shall report emergency conditions at the source to the IEPA if the Permittee intends to deduct VOM emissions in excess of the technology-based emission rates normally achieved that are attributable to the emergency from the source's seasonal VOM emissions for purposes of the ERMS. These reports shall include the information specified by 35 IAC 205.750(a), and shall be submitted in accordance with the following:
 - A. An initial emergency conditions report within two days after the time when such excess emissions occurred due to the emergency.
 - B. A final emergency conditions report, if needed to supplement the initial report, within 10 days after the conclusion of the emergency.
- f. Annual Account Reporting
- i. Pursuant to 35 IAC 205.300, for each year in which the source is operational, the Permittee shall submit, as a component of its Annual Emissions Report, seasonal VOM emissions information to the IEPA for the seasonal allotment period. This report shall include the following information:
 - A. Actual seasonal emissions of VOM from the source.
 - B. A description of the methods and practices used to determine VOM emissions, as required by this permit, including any supporting documentation and calculations.
 - C. A detailed description of any monitoring methods that differ from the methods specified in this permit, as provided in 35 IAC 205.337.
 - D. If a source has experienced an emergency, as provided in 35 IAC 205.750, the report shall reference the associated emergency conditions report that has been approved by the IEPA.

- E. If a source's baseline emissions have been adjusted due to a Variance, Consent Order, or CAAPP permit Compliance Schedule, as provided for in 35 IAC 205.320(e)(3), the report shall provide documentation quantifying the excess VOM emissions during the season that were allowed by the Variance, Consent Order, or Compliance Schedule, in accordance with 35 IAC 205.320(e)(3).
- F. If a source is operating a new or modified emission unit for which three years of operational data is not yet available, as specified in 35 IAC 205.320(f), the report shall specify seasonal VOM emissions attributable to the new emission unit or the modification of the emission unit.
- ii. This report shall be submitted by October 31 of each year, for the preceding seasonal allotment period.

g. Allotment of ATUs to the Source

- i. A. The combined allotment of ATUs to this source, as a single source discussed in Condition 7.3(a), is 255 ATUs per seasonal allotment period.
- B. This allotment of ATUs reflects the IEPA's determination that the source's baseline emissions were 25.4776 tons per season.

ii. Contingent Allotments for New or Modified Emission Units

The source was not issued a construction permit prior to January 1, 1998 for the following new or modified emission units:

<i>Emission Unit</i>	<i>Construction Permit No.</i>	<i>Date Issued</i>
Biosolids Heat Drying Plant	04110024	2005

In accordance with 35 IAC Part 205, for the above referenced emission units, the source is required to hold the appropriate amount of ATUs for these emission units.

- iii. Notwithstanding the above, part or all of the above ATUs will not be issued to the source in circumstances as set forth in 35 IAC Part 205, including:
 - A. Transfer of ATUs by the source to another participant or the ACMA, in accordance with 35 IAC 205.630.
 - B. Deduction of ATUs as a consequence of emissions excursion compensation, in accordance with 35 IAC 205.720.
 - C. Transfer of ATUs to the ACMA, as a consequence of shutdown of the source, in accordance with 35 IAC 205.410.

h. Recordkeeping for ERMS

Pursuant to 35 IAC 205.700(a), the Permittee shall maintain copies of the following documents as its Compliance Master File for purposes of the ERMS:

- i. Seasonal component of the Annual Emissions Report.
- ii. Information on actual VOM emissions, as specified in detail in Sections 3 and 4 of this permit and Condition 7.3(e)(i).
- iii. Any transfer agreements for the purchase or sale of ATUs and other documentation associated with the transfer of ATUs.

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i. Exclusions from Further Reductions

- i. A. Pursuant to 35 IAC 205.405(a), VOM emissions from the following emission units shall be excluded from the VOM emissions reductions requirements specified in 35 IAC 205.400(c) and (e) as long as such emission units continue to satisfy the following:
 - I. Emission units that comply with any NESHAP or MACT standard promulgated pursuant to the CAA.
 - II. Direct combustion emission units designed and used for comfort heating purposes, fuel combustion emission units, and internal combustion engines.
 - III. An emission unit for which a LAER demonstration has been approved by the IEPA on or after November 15, 1990.
- B. Pursuant to 35 IAC 205.405(a) and (c), the source has demonstrated in its ERMS application and the IEPA has determined that the following emission units qualify for exclusion from further reductions because they meet the criteria as indicated above (all these units operated by Metropolitan Water Reclamation District of Greater Chicago/Stickney Water Reclamation Plant, I.D.031300AAL as part of a single source operation at this location):
 - Boiler B-1
 - Boiler B-2
 - Boiler B-3
 - Boiler B-4
 - Boiler B-5
 - Boiler B-7
 - Gas Turbine
- ii. A. Pursuant to 35 IAC 205.405(b), VOM emissions from emission units using BAT for controlling VOM emissions shall not be subject to the VOM emissions reductions requirement specified in 35 IAC 205.400(c) or (e) as long as such emission unit continues to use such BAT.
- B. Pursuant to 35 IAC 205.405(b) and (c), the source has demonstrated in its ERMS application and the IEPA has determined that the following emission units qualify for exclusion from further reductions because these emission units use BAT for controlling VOM emissions as indicated above (all these units operated by Metropolitan Water Reclamation District of Greater Chicago/Stickney Water Reclamation Plant, I.D.031300AAL as part of a single source operation at this location):
 - Wastewater Liquid Treatment Process
 - Waste Gas Burner WGB-1
 - Waste Gas Burner WGB-2

Section 8 - State Only Requirements

1. Permitted Emissions for Fees

The annual emissions from the source for purposes of "Duties to Pay Fees" of Condition 2.3(e), not considering insignificant activities as addressed by Section 6, shall not exceed the following limitations. The overall source emissions shall be determined by adding emissions from all emission units. Compliance with these limits shall be determined on a calendar year basis. The Permittee shall maintain records with supporting calculations of how the annual emissions for fee purposes were calculated. This Condition is set for the purpose of establishing fees and is not federally enforceable. See Section 39.5(18) of the Act.

<i>Pollutant</i>		<i>Tons/Year</i>
Volatile Organic Material	(VOM)	2.74
Sulfur Dioxide	(SO ₂)	22.91
Particulate Matter	(PM)	9.04
Nitrogen Oxides	(NO _x)	39.60
HAP, not included in VOM or PM	(HAP)	0.16
Total		74.45

Attachment 1 - List of Emission Units at This Source

<i>Section</i>	<i>Emission Units</i>	<i>Description</i>
4.1	Wet and Dry Material Handling Systems	Receiving, processing and transferring of raw wet materials and dried products.
4.2	Drying Systems	The wet materials are dried in the indirectly heated dryers where wet materials are not coming into contact with combustion gases.
4.3	Thermal Oil Heaters	The thermal oil circulated through the dryers is heated by the heaters that are capable of being fired with fuel oil, gaseous fuel, or a combination of these fuels.

Attachment 2 - Acronyms and Abbreviations

acfm	Actual cubic feet per minute
ACMA	Alternative Compliance Market Account
Act	Illinois Environmental Protection Act [415 ILCS 5/1 et seq.]
AP-42	Compilation of Air Pollutant Emission Factors, Volume 1, Stationary Point and Other Sources (and Supplements A through F), USEPA, Office of Air Quality Planning and Standards, Research Triangle Park, NC 27711
ATU	Allotment trading unit
BACT	Best Available Control Technology
BAT	Best Available Technology
BTU	British Thermal Units
CAA	Clean Air Act [42 U.S.C. Section 7401 et seq.]
CAAPP	Clean Air Act Permit Program
CAIR	Clean Air Interstate Rule
CAM	Compliance Assurance Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CISWI	Commercial Industrial Solid Waste Incinerator
CO	Carbon monoxide
CO ₂	Carbon dioxide
COMS	Continuous Opacity Monitoring System
CPMS	Continuous Parameter Monitoring System
dscf	Dry standard cubic foot
dscm	Dry standard cubic meter
EAF	Electric arc furnace
ERMS	Emissions Reduction Market System
°F	Degrees Fahrenheit
GHG	Green house gas
gr	Grains
HAP	Hazardous air pollutant
Hg	Mercury
HMIWI	Hospital medical infectious waste incinerator
HP	Horsepower
hr	Hour
H ₂ S	Hydrogen sulfide
I.D. No.	Identification number of source, assigned by IEPA
IAC	Illinois Administrative Code
ILCS	Illinois Compiled Statutes
IEPA	Illinois Environmental Protection Agency
KW	Kilowatts
LAER	Lowest Achievable Emission Rate
lb	Pound

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m	Meter
MACT	Maximum Achievable Control Technology
mm	Million
mon	Month
MSDS	Material Safety Data Sheet
MSSCAM	Major Stationary Sources Construction and Modification (Non-attainment New Source Review)
MW	Megawatts
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO _x	Nitrogen oxides
NSPS	New Source Performance Standards
NSR	New Source Review
PM	Particulate matter
PM ₁₀	Particulate matter with an aerodynamic diameter less than or equal to a nominal 10 microns as measured by applicable test or monitoring methods
PM _{2.5}	Particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 microns as measured by applicable test or monitoring methods
ppm	Parts per million
ppmv	Parts per million by volume
PSD	Prevention of Significant Deterioration
PSEU	Pollutant-Specific Emission Unit
psia	Pounds per square inch absolute
PTE	Potential to emit
RACT	Reasonable Available Control Technology
RMP	Risk Management Plan
scf	Standard cubic feet
SCR	Selective catalytic reduction
SIP	State Implementation Plan
SO ₂	Sulfur dioxide
T1	Title I - identifies Title I conditions that have been carried over from an existing permit
T1N	Title I New - identifies Title I conditions that are being established in this permit
T1R	Title I Revised - identifies Title I conditions that have been carried over from an existing permit and subsequently revised in this permit
USEPA	United States Environmental Protection Agency
VOM	Volatile organic material

Attachment 3 - Contact and Reporting Addresses

<p style="text-align: center;">IEPA Compliance Section</p> <p style="text-align: center;">IEPA Stack Test Specialist</p> <p style="text-align: center;">IEPA Air Quality Planning Section</p> <p style="text-align: center;">IEPA Air Regional Field Operations Regional Office #1</p> <p style="text-align: center;">IEPA Permit Section</p>	<p>Illinois EPA, Bureau of Air Compliance & Enforcement Section (MC 40) 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276</p> <p>Phone No.: 217/782-2113</p>
	<p>Illinois EPA, Bureau of Air Compliance Section Source Monitoring - Third Floor 9511 Harrison Street Des Plaines, Illinois 60016</p> <p>Phone No.: 847/294-4000</p>
	<p>Illinois EPA, Bureau of Air Air Quality Planning Section (MC 39) 1021 North Grand Avenue East P.O. Box 19276 Springfield, Illinois 62794-9276</p> <p>Phone No.: 217/782-2113</p>
	<p>Illinois EPA, Bureau of Air Regional Office #1 9511 Harrison Street Des Plaines, Illinois 60016</p> <p>Phone No.: 847/294-4000</p>
	<p>Illinois EPA, Bureau of Air Permit Section (MC 11) 1021 North Grand Avenue East P.O. Box 19506 Springfield, Illinois 62794-9506</p> <p>Phone No.: 217/785-1705</p>
<p style="text-align: center;">USEPA Region 5 - Air Branch</p>	<p>USEPA (AR - 17J) Air and Radiation Division 77 West Jackson Boulevard Chicago, Illinois 60604</p> <p>Phone No.: 312/353-2000</p>

Attachment 4 - Example Certification by a Responsible Official

SIGNATURE BLOCK	
NOTE: THIS CERTIFICATION MUST BE SIGNED BY A RESPONSIBLE OFFICIAL. APPLICATIONS WITHOUT A SIGNED CERTIFICATION WILL BE DEEMED AS INCOMPLETE.	
I CERTIFY UNDER PENALTY OF LAW THAT, BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION CONTAINED IN THIS APPLICATION ARE TRUE, ACCURATE AND COMPLETE. ANY PERSON WHO KNOWINGLY MAKES A FALSE, FICTITIOUS, OR FRAUDULENT MATERIAL STATEMENT, ORALLY OR IN WRITING, TO THE ILLINOIS EPA COMMITS A CLASS 4 FELONY. A SECOND OR SUBSEQUENT OFFENSE AFTER CONVICTION IS A CLASS 3 FELONY. (415 ILCS 5/44(H))	
AUTHORIZED SIGNATURE:	
BY: _____	_____
AUTHORIZED SIGNATURE	TITLE OF SIGNATORY
_____	_____/_____/_____
TYPED OR PRINTED NAME OF SIGNATORY	DATE

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