



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: June 1, 2026

Effective Date: June 1, 2026

Expiration Date: December 1, 2027

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to construct, install, modify or reactivate the air emission source(s) more fully described in the site inventory list. This Facility is subject to all terms and conditions specified in this plan approval. Nothing in this plan approval relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

[Plan Approval No. 09-0250A](#)

Federal Tax Id - Plant Code: 84-1973843-1

Owner Information

Name: MCGILL FAIRLESS HILLS, LLC
Mailing Address: 1000 TYBURN RD
MORRISVILLE, PA 19067-3619

Plant Information

Plant: MCGILL FAIRLESS HILLS LLC
Location: 09 Bucks County 09002 Falls Township
SIC Code: 2875 Manufacturing - Fertilizers, Mixing Only

Responsible Official

Name: KATHERINE SULLIVAN
Title: PROJECT MANAGER
Phone: (919) 362 - 1161 Email: ksullivan@mcgillcompost.com

Plan Approval Contact Person

Name: KATHERINE SULLIVAN
Title: PROJECT MANAGER
Phone: (919) 362 - 1161 Email: ksullivan@mcgillcompost.com

[Signature] _____
JILLIAN A. GALLAGHER, SOUTHEAST REGION AIR PROGRAM MANAGER



Plan Approval Description

- (a) This plan approval (Plan Approval No. 09-0250A, AUTH ID 1551686) is for the installation of a third biofilter at the existing composting facility. This plan approval supersedes and incorporates all terms and conditions of Plan Approval No. 09-0250.
- (b) Plan Approval No. 09-0250, AUTH ID 1372806 was for the installation of a new indoor composting facility with a 2-segment biofilter (Biofilter #1 and Biofilter #2) as the add-on control device reducing odors emanating from the composting operation.
- (c) Plan Approval No. 09-0250, AUTH ID 1509944 was a minor modification of Plan Approval No. 09-0250 to expand the dimensions of each biofilter segment footprint and biofilter media to control odors.



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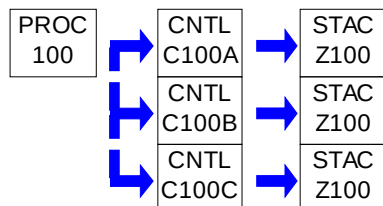
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**SECTION A. Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
100	COMPOSTING OPERATION		
C100A	BIOFILTER #1	N/A	
C100B	BIOFILTER #2	N/A	
C100C	BIOFILTER #3	N/A	
Z100	FUGITIVE EMISSIONS		

PERMIT MAPS

**SECTION B. General Plan Approval Requirements****#001 [25 Pa. Code § 121.1]****Definitions**

Words and terms that are not otherwise defined in this plan approval shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.12b (a) (b)]**Future Adoption of Requirements**

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

#003 [25 Pa. Code § 127.12b]**Plan Approval Temporary Operation**

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

(a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

(b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

(c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.

(d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 30 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.

(e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

#004 [25 Pa. Code § 127.12(a) (10)]**Content of Applications**

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

#005 [25 Pa. Code §§ 127.12(c) and (d) & 35 P.S. § 4013.2]**Public Records and Confidential Information**

(a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.

(b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the

**SECTION B. General Plan Approval Requirements**

competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. § 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws, or when relevant in a proceeding under the act.

#006 [25 Pa. Code § 127.12b]**Plan Approval Terms and Conditions**

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

(a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:

- (i) A justification for the extension,
- (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

#007 [25 Pa. Code § 127.32]**Transfer of Plan Approvals**

(a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.

(b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.

(c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

#008 [25 Pa. Code § 127.12(a)(4) & 35 P.S. § 4008 & § 114 of the CAA]**Inspection and Entry**

(a) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.

(b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.

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(c) Nothing in this plan approval condition shall limit the ability of the Environmental Protection Agency to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#009 [25 Pa. Code 127.13a]**Plan Approval Changes for Cause**

This plan approval may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

(a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.

(b) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.

(c) The permittee fails to submit a report required by this plan approval.

(d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

#010 [25 Pa. Code §§ 121.9 & 127.216]**Circumvention**

(a) The permittee, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this plan approval, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#011 [25 Pa. Code § 127.12c]**Submissions**

Reports, test data, monitoring data, notifications shall be submitted to the:

Regional Air Program Manager

PA Department of Environmental Protection

(At the address given on the plan approval transmittal letter or otherwise notified)

#012 [25 Pa. Code § 127.12(a)(9) & 40 CFR Part 68]**Risk Management**

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the facility. The permittee shall submit the RMP to the Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by the Environmental Protection Agency no later than the latest of the following:

**SECTION B. General Plan Approval Requirements**

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or the Environmental Protection Agency concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this plan approval condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

#013 [25 Pa. Code § 121.7]**Prohibition of Air Pollution**

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. §§ 4001-4015).

#014 [25 Pa. Code § 127.25]**Compliance Requirement**

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.

**SECTION C. Site Level Plan Approval Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

No person may permit the emission into the outdoor atmosphere of fugitive air contaminant from a source other than the following:

- (1) Construction or demolition of buildings or structures.
- (2) Grading, paving and maintenance of roads and streets.
- (3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
- (4) Clearing of land.
- (5) Stockpiling of materials.
- (6) Open burning operations, as specified in 25 Pa. Code § 129.14.
- (7) - (8) N/A
- (9) Sources and classes of sources other than those identified in (1)-(8) above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:

- (i) The emissions are of minor significance with respect to causing air pollution; and
- (ii) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

002 [25 Pa. Code §123.2]**Fugitive particulate matter**

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in 25 Pa. Code § 123.1, if such emissions are visible at the point the emissions pass outside the person's property.

003 [25 Pa. Code §123.31]**Limitations**

A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

004 [25 Pa. Code §123.41]**Limitations**

A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- (a) Equal to or greater than 20% for a period or periods aggregating more than three (3) minutes in any one (1) hour.
- (b) Equal to or greater than 60% at any time.

005 [25 Pa. Code §123.42]**Exceptions**

The opacity limitations of 25 Pa. Code § 123.41 shall not apply to a visible emission in any of the following instances:

- (a) When the presence of uncombined water is the only reason for failure of the emission to meet the limitations.
- (b) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.
- (c) When the emission results from sources specified in 25 Pa. Code § 123.1 (relating to prohibition of certain fugitive emissions).

006 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

- (a) The permittee shall limit facility-wide VOC emissions to less than 25 tons per year, based on a 12-month rolling sum.
- (b) The permittee shall limit facility-wide HAP emissions as follows:
 - (1) less than 25 tons per year, any combination HAP, based on a 12-month rolling sum.
 - (2) less than 10 tons per year, any individual HAP, based on a 12-month rolling sum.

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(c) The permittee shall limit facility-wide SO_x emissions to less than 100 tons per year, based on a 12-month rolling sum.

(d) Facility-wide emissions include emissions from all air emitting sources on site, which includes the source(s) listed in this plan approval, sources listed in subsequent permits and/or plan approvals issued to the permittee for this location, and all miscellaneous sources which may be exempt from plan approval requirements.

007 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) The permittee shall limit ammonia (NH₃) concentration levels at the property line to 6.25 ppm (instantaneous, maximum allowable concentration).

[Note: Upon completion of the proposed acid scrubber and associated control systems, the permittee shall evaluate all ammonia monitoring data collected under normal operating conditions. DEP reserves the right to establish an enforceable ammonia concentration limit at each biofilter outlet based on representative post-control performance.]

(b) The permittee shall limit hydrogen sulfide (H₂S) concentration levels at the property line to 0.3 ppm (instantaneous, maximum allowable concentration).

[Note: Upon completion of the proposed acid scrubber and associated control systems, the permittee shall evaluate all hydrogen sulfide monitoring data collected under normal operating conditions. DEP reserves the right to establish an enforceable hydrogen sulfide concentration limit at each biofilter outlet based on representative post-control performance.]

008 [25 Pa. Code §129.14]**Open burning operations**

No person may permit the open burning of material in the Southeast Air Basin except when the open burning operations result from:

- (a) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
- (b) Any fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (c) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (d) A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.
- (e) A fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of the structure.
- (f) A fire set solely for recreational or ceremonial purposes.
- (g) A fire set solely for cooking food.

II. TESTING REQUIREMENTS.**# 009 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) If at any time DEP has cause to believe that air contaminant emissions from any source may be in excess of the limitations specified in this plan approval or established pursuant to any applicable rule or regulation contained in 25 Pa. Code Article III, the permittee shall be required to conduct whatever tests are deemed necessary by DEP to determine the actual emission rate(s).

(b) Such testing shall be conducted in accordance with the provisions of 25 Pa. Code Chapter 139, the most current version of the DEP Source Testing Manual, and the EPA Clean Air Act National Stack Testing Guidance, when applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the permittee that testing is required.

(c) The Department reserves the right to require exhaust stack testing of sources and control devices as necessary to verify emissions for purposes including determining the correct emission fee, malfunctions, or determining compliance with applicable requirements.

**SECTION C. Site Level Plan Approval Requirements****# 010 [25 Pa. Code §139.1]****Sampling facilities.**

Upon the request of the Department, the person responsible for a source shall provide adequate sampling ports, safe sampling platforms, and adequate utilities for the performance by the Department of tests on a source. The Department will set forth, in the request, the time period in which the facilities shall be provided as well as the specifications for such facilities.

III. MONITORING REQUIREMENTS.**# 011 [25 Pa. Code §123.43]****Measuring techniques**

Visible emissions may be measured using either of the following:

- (a) A device approved by DEP and maintained to provide accurate opacity measurements.
- (b) Observers trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by DEP.

012 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) The permittee shall monitor the facility on a daily basis when the site is staffed, the following:

- (1) Odors which may be objectionable (as per 25 Pa. Code § 123.31).
- (2) Visible Emissions (as per 25 Pa. Code §§ 123.41 and 123.42).
- (3) Fugitive Particulate Matter (as per 25 Pa. Code §§ 123.1 and 123.2).

(b) Objectionable odors, fugitive particulate emissions, and visible emissions that are caused or may be caused by operations at the site shall:

- (1) Be investigated;
- (2) Be reported to the facility management, or individual(s) designated by the permittee;
- (3) Have appropriate corrective action taken (for emissions that originate on-site); and
- (4) Be recorded in a permanent written log.

(c) DEP reserves the right to change the above monitoring requirements at any time, based on but not limited to: the review of the compliance certification, complaints, monitoring results, and/or Department findings.

013 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) The permittee shall monitor the facility's property line perimeter (fence-line) twice a week using a handheld meter (RKI GX-6100 or equivalent) to measure ammonia (NH₃) concentration levels (instantaneous ppm).

(b) The permittee shall monitor the facility's property line perimeter (fence-line) twice a week using a handheld meter (RKI GX-6100 or equivalent) to measure hydrogen sulfide (H₂S) concentration levels (instantaneous ppm).

IV. RECORDKEEPING REQUIREMENTS.**# 014 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall record all odor complaints. The odor complaint log shall include date of incident, wind speed and direction on the day of the incident, investigation findings, and any corrective actions taken.

015 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Upon review and DEP approval of post-control SO_x, VOC, and HAP emission factors to use per biofilter as determined during ambient air sampling as required herein and as per Plan Approval No. 09-0250:

(a) The permittee shall maintain monthly records of facility-wide VOC and SO_x emissions, including 12-month rolling sums.

**SECTION C. Site Level Plan Approval Requirements**

(b) The permittee shall maintain monthly records of the facility-wide total HAP and individual HAP emissions, including 12-month rolling sums.

(c) Facility-wide emissions include emissions from all air emitting sources on site, which includes the source(s) listed in this plan approval, sources listed in subsequent permits and/or plan approvals issued to the permittee for this location, and all miscellaneous sources which may be exempt from plan approval requirements.

016 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall maintain a record of all monitoring of fugitive emissions, visible emissions and odors, including those that deviate from the conditions found in this permit. The record of deviations shall contain, at a minimum, the following items:

- (a) The name and title of the company representative monitoring these instances.
- (b) The date and time of the observation.
- (c) A description of any emissions or malodors observed. If none are observed, record "NONE."
- (d) The possible cause(s) of the emissions or malodors.
- (e) Corrective action(s) taken to abate or mitigate each recorded deviation and to prevent future occurrences.

017 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall maintain records of all the facility's increases of emissions from the following categories:

- (a) De minimis increases without notification to the Department.
- (b) De minimis increases with notification to the Department, via letter.
- (c) Increases resulting from a Request for Determination (RFD) to the Department.
- (d) Increases resulting from the issuance of a plan approval and subsequent operating permit.

018 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

- (a) The permittee shall maintain records of the twice per week measurements of ammonia concentrations taken at the property line.
- (b) The permittee shall maintain records of the twice per week measurements of hydrogen sulfide concentrations taken at the property line.

V. REPORTING REQUIREMENTS.**# 019 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall report malfunctions, emergencies or incidents of excess emissions to DEP's 24-hour Emergency Hotline at 800.541.2050. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. An emergency is any situation arising from sudden and reasonably unforeseeable events beyond the control of the owner or operator of a facility which requires immediate corrective action to restore normal operation and which causes the emission source to exceed emissions, due to unavoidable increases in emissions attributable to the situation. An emergency shall not include situations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.

(b) When the malfunction, emergency or incident of excess emissions poses an imminent danger to the public health, safety, welfare, or environment, it shall be reported to the Department and the County Emergency Management Agency by telephone within one (1) hour after the discovery of the malfunction, emergency or incident of excess emissions. The owner or operator shall submit a written or emailed report of instances of such malfunctions, emergencies or incidents of excess emissions to the Department within three (3) business days of the telephone report.

(c) The report shall describe the following:

**SECTION C. Site Level Plan Approval Requirements**

- (1) Name, permit or authorization number, and location of the facility;
- (2) Nature and cause of the malfunction, emergency or incident;
- (3) Date and time when the malfunction, emergency or incident was first observed;
- (4) Expected duration of excess emissions;
- (5) Estimated rate of emissions; and
- (6) Corrective actions or preventative measures taken.

(d) Any malfunction, emergency or incident of excess emissions that is not subject to the notice requirements of paragraph (b) of this condition shall be reported to the Department by telephone within 24 hours (or by 4:00 PM of the next business day, whichever is later) of discovery and in writing or by e-mail within five (5) business days of discovery. The report shall contain the same information required by paragraph (c), and any permit specific malfunction reporting requirements.

(e) During an emergency an owner or operator may continue to operate the source at their discretion provided they submit justification for continued operation of a source during the emergency and follow all the notification and reporting requirements in accordance with paragraphs (b)-(d), as applicable, including any permit specific malfunction reporting requirements.

(f) Reports regarding malfunctions, emergencies or incidents of excess emissions shall be submitted to the appropriate DEP Regional Office Air Program Manager.

(g) Any emissions resulted from malfunction or emergency are to be reported in the annual emissions inventory report, if the annual emissions inventory report is required by permit or authorization.

020 [25 Pa. Code §135.3]**Reporting**

If the permittee has been previously advised by the Department to submit a source report, the permittee shall submit by March 1 of each year a source report for the preceding calendar year. The report shall include information from all previously reported sources, new sources which were first operated during the preceding calendar year, and sources modified during the same period which were not previously reported, including those sources listed in the Miscellaneous Section of this permit.

The permittee may request an extension of time from the Department for the filing of a source report, and the Department may grant the extension for reasonable cause.

VI. WORK PRACTICE REQUIREMENTS.**# 021 [25 Pa. Code §123.1]****Prohibition of certain fugitive emissions**

A person responsible for any source specified in 25 Pa. Code § 123.1 shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (a) Use, where possible, of water or suitable chemicals, for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land;
- (b) Application of asphalt, water, or other suitable chemicals, on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts;
- (c) Paving and maintenance of roadways; and
- (d) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or by other means.

022 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall immediately, upon discovery, implement measures which may include the application for the installation of air cleaning device(s), if necessary, to reduce the air contaminant emissions to within applicable limitations, if at any time the operation of the source(s) identified in Section A of this plan approval/operating permit is causing the

**SECTION C. Site Level Plan Approval Requirements**

emission of air contaminants in excess of the limitations specified in, or established pursuant to 25 Pa. Code Article III or any other applicable rule promulgated under the Clean Air Act.

023 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

- (a) The permittee shall ensure that all sources are operated and maintained in accordance with the facility's standard operating and maintenance procedures and good engineering and air pollution control practices.
- (b) The sources listed in this plan approval shall be installed and operated in accordance with the plans submitted with the plan approval application (as approved herein).
- (c) This plan approval supersedes and incorporates all terms and conditions of Plan Approval No. 09-0250.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).

IX. COMPLIANCE SCHEDULE.

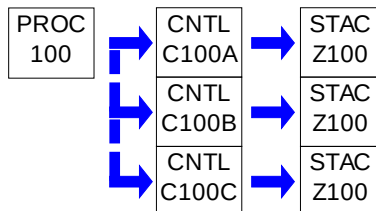
No compliance milestones exist.

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 100

Source Name: COMPOSTING OPERATION

Source Capacity/Throughput:

**I. RESTRICTIONS.****Throughput Restriction(s).****# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall limit the amount of material processed to 170,000 tons of material per year, based on a 12-month rolling sum, in accordance with the PADEP Solid Waste Permit.

(b) The permittee shall limit the amount of organic waste (biosolids) as follows:

- (1) 1,400 tons per week upon completion of Biofilter #1 and Biofilter #2 Expansion Project,
- (2) 1,600 tons per week upon completion of construction and commencement of operation of Biofilter #3,
- (3) 600 tons per day and 130,000 tons per year upon completion of construction and commencement of operation of the Acid Gas Scrubber.

[DEP reserves the right to modify the biosolids acceptance rate schedule listed in (b)(1) through (3) at any time based on but not limited to: the review of odor complaints, monitoring results, and/or Department findings.]

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall continuously monitor the temperature of processing bays (composting bays and curing bays) using temperature monitoring probes located vertically in the middle of compost piles that are more than half way complete in a bay.

003 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall monitor the following on a daily basis, when the site is staffed:

- (a) Amount and type of feedstock material received
- (b) Amount and type of feedstock material processed.

IV. RECORDKEEPING REQUIREMENTS.**# 004 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall maintain monthly records and 12-month rolling sums of the following:

- (1) Amount and type of feedstock material received

**SECTION D. Source Level Plan Approval Requirements**

(2) Amount and type of feedstock material processed.

(b) The permittee shall maintain waste analysis reports for all feedstock material accepted onsite for composting, in accordance with the PADEP Solid Waste Permit.

005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall record the following operating parameters on the frequencies described below, when the site is staffed:

(a) Carbon to nitrogen content of combined feedstock material received - quarterly

(b) Bulk density of combined feedstock material received - quarterly

(c) Moisture or humidity of material during blending - monthly

(d) Processing bay temperatures - daily.

006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall keep the following records for composting operations:

(a) inspections, leak tests, and smoke tests, performed,

(b) maintenance performed,

(c) any deficiencies, and

(d) any corrective actions taken.

007 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall maintain an onsite copy of an operation, inspection, and maintenance plan for the composting operations.

008 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The waste acceptance minimum requirements provided in the PADEP Solid Waste Permit (Permit No. 101727) shall be kept onsite at all times.

009 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall record all odor complaints. The odor complaint log shall include date of incident, wind speed and direction, humidity, temperature and precipitation on the day of the incident, investigation findings, and any corrective actions taken.

010 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Upon review and DEP approval of post-control VOC and HAP emission factors to use per biofilter as determined during ambient air sampling as required herein and as per Plan Approval No. 09-0250, the permittee shall maintain records of the total post-control emission calculations for VOC and HAP emissions exiting all three (3) biofilters surface to the outdoor atmosphere on a monthly and 12-month rolling sum basis.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

011 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall implement an inspection and maintenance plan for the composting process equipment, including but not limited to the following:

**SECTION D. Source Level Plan Approval Requirements**

- (a) Inspection of all supply fan ductwork, header ducting, and fans on a quarterly basis for potential leaks.
- (b) Maintain on site leak repair kits designed to allow continuous operation of the biofilters while addressing the leaks.
- (c) Inspection of the extraction fans to include greasing of bearings, belt inspection and cleaning of housing per manufacturer's recommendations.
- (d) General observation that process equipment is maintained in good operating condition.

012 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

- (a) The permittee shall keep all doors and windows closed and/or shut when practicable.
- (b) Doors and windows may be opened during times of waste acceptance and loading and unloading operations, for example, when trucks enter and/or leave the building, during times of maintenance and inspection, and during other times as needed for operational purposes.
- (c) The permittee shall keep doors and windows closed when the facility is not staffed.

013 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall maintain and operate the ECOLO AMC odor control misting system.

014 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall accept only pre-approved feedstock material in accordance with PADEP Solid Waste Permit. The waste acceptance minimum requirements are provided in the PADEP Solid Waste Permit issued to the facility and shall be kept onsite.

015 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

- (a) The permittee shall reduce odor emissions from composting activities by routing all areas with "dirty" air to the biofiltration system at all times.
- (b) The permittee shall reduce fugitive particulate matter from composting activities through the use of the irrigation system on the primary and final screens.

016 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

- (a) At all times, the permittee shall operate and maintain composting process equipment and all associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available which may include, but is not limited to, monitoring results, review of standard operating and maintenance procedures, review of operation and maintenance records, and inspection of the source.
- (b) The permittee shall maintain on site copies of the facility's standard operating and maintenance procedures for composting process equipment.

017 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall prepare and implement a written standard operating procedure for the composting operations at the facility, including operation of the biofilter. The plan must contain the following operation, inspection, and maintenance items:

- (a) Composting process and biofilter operating parameters to be monitored and/or inspected to determine compliance, along with established operating levels or ranges, as applicable, for each composting process unit and the biofilter.
- (b) A monitoring and/or inspection schedule for each affected composting process unit and the biofilter.
- (c) Procedures for the proper operation and maintenance of each composting process unit and the biofilter used to achieve

**SECTION D. Source Level Plan Approval Requirements**

compliance with the malodor regulation.

(d) Corrective actions to be taken when composting process units or biofilter operating parameters deviate from the value or range established in paragraph (a) of this condition, including procedures for recording the corrective action taken, the time corrective action was initiated, and the time/date corrective action was completed.

(e) A maintenance schedule for each composting process unit and the biofilter that is consistent with the manufacturer's instructions and recommendations for routine and long-term maintenance, or consistent with acceptable practices within the industry, if manufacturer specifications are not available.

(f) Documentation of the work practice and pollution prevention measures used to achieve compliance with the applicable requirements.

VII. ADDITIONAL REQUIREMENTS.

018 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Source ID 100 contains the following process equipment and activities:

Outdoor stockpile areas

Blending

Thirteen (13) primary processing bays

Screening (electric) and conveying

Seven (7) curing bays for final processing

Loaders

**SECTION D. Source Level Plan Approval Requirements**

Source ID: C100A

Source Name: BIOFILTER #1

Source Capacity/Throughput:

N/A

Conditions for this source occur in the following groups: GROUP 1
GROUP 2

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: C100B

Source Name: BIOFILTER #2

Source Capacity/Throughput:

N/A

Conditions for this source occur in the following groups: GROUP 1
GROUP 2

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**SECTION D. Source Level Plan Approval Requirements**

Source ID: C100C

Source Name: BIOFILTER #3

Source Capacity/Throughput:

N/A

Conditions for this source occur in the following groups: GROUP 2

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

II. TESTING REQUIREMENTS.**# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall conduct initial ambient air sampling within 180 days of completing construction of the Biofilter #3 (C100C) and related equipment listed in this plan approval as follows:

(a) The sampling shall be used to measure the inlet and the outlet concentrations (in ppm) of sulfur oxides (SO_x), hydrogen sulfide (H₂S), ammonia (NH₃), total VOC and total HAP using EPA Method TO-15 and/or EPA Method TO-15 Modified, and/or ASTM D 5504, or equivalent as applicable. Sampling shall be conducted in accordance with the procedures of the most recent DEP Source Testing Manual, where applicable.

(b) Sampling shall be conducted at the ducting header to Biofilter #3 (inlet) and at points on top of the biofilter media bed surface exposed to the outdoor atmosphere (post-control).

(c) The measurements shall be used to calculate emission factors (in pound per wet ton of material and/or pound per hour based on biofilter fan exhaust flowrate and pollutant concentration) for post-control, SO_x, total VOC and any combination HAP emissions for the composting operation controlled by the biofilter.

(d) The permittee shall monitor and record information during the sampling activity necessary to determine post-control emission factors in pounds per wet ton of material, such as amount and type of material processed over the latest 30-day period, and flux densities of feedstock material.

(e) After the initial sampling, annual sampling for two (2) consecutive years is required, for a total of three (3) years, followed by once every five (5) years thereafter. Frequency may be revised based on DEP findings.

002 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) At least ninety (90) days prior to the ambient air sampling, the permittee shall submit to DEP for approval the procedures for the sampling and a sketch with dimensions indicating the location of sampling areas and other data to ensure the collection of representative samples.

(b) At least thirty (30) days prior to sampling, the Regional Air Quality Manager, shall be informed of the date and time of the sampling.

(c) Within sixty (60) days after sampling, an electronic copy of the complete report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(d) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. DEP may grant an extension for a reasonable cause.

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**SECTION D. Source Level Plan Approval Requirements****IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

V. REPORTING REQUIREMENTS.**# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Within sixty (60) days after conducting the sampling, the permittee shall submit for approval, the proposed method of actual emission calculations for post-control VOC and HAP emissions from the biofilter, clearly indicating the proposed emission factor for each pollutant, as applicable, and all mass balance information, as applicable.

004 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Within thirty (30) days after completion of construction of Biofilter #3 and related equipment listed in this plan approval, the permittee shall submit the design criteria of the Biofilter #3, including biofilter length, width, and height of the biofilter media, and the residence time calculations.

VI. WORK PRACTICE REQUIREMENTS.**# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Within 180 days after completion of construction of Biofilter #3 and related equipment listed in this plan approval, the permittee shall establish a minimum and/or maximum operating parameter value, or an operating parameter range for each parameter to be monitored that ensures compliance with the malodor regulation. DEP reserves the right to modify operating, monitoring, or inspection parameters depending on data collected to establish values.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: GROUP 1

Group Description: Biofilter 1 and Biofilter 2 ONLY

Sources included in this group

ID	Name
C100ABIOFILTER #1	
C100BBIOFILTER #2	

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

II. TESTING REQUIREMENTS.**# 001 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall conduct initial ambient air sampling within 180 days of completing all major repairs to duct work, biofilter beds, and other significant repair work and related equipment associated with Biofilter #1 and Biofilter #2 as follows:

(a) The sampling shall be used to measure outlet concentrations (in ppm) of hydrogen sulfide (H₂S), ammonia (NH₃), total VOC and total HAP using EPA Method TO-15 and/or EPA Method TO-15 Modified, and/or ASTM D 5504, or equivalent as applicable. Sampling shall be conducted in accordance with the procedures of the most recent DEP Source Testing Manual, where applicable.

(b) Sampling shall be conducted at the ducting header to the biofilter and at points on top of the biofilter media bed surface exposed to the outdoor atmosphere.

(c) The measurements shall be used to calculate emission factors (in pound per wet ton of material) for post-control, total VOC and HAP emissions for the composting operation controlled by the biofilter.

(d) The permittee shall monitor and record information during the sampling activity necessary to determine post-control emission factors in pounds per wet ton of material, such as amount and type of material processed over the latest 30-day period, and flux densities of feedstock material.

(e) After the initial sampling, DEP recommends annual sampling for two (2) consecutive years, for a total of three (3) years, followed by once every five (5) years thereafter. Frequency may be revised based on DEP findings.

[Initial sampling at Biofilter #1 and Biofilter #2 was conducted on 4/13/26]

002 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) At least ninety (90) days prior to the ambient air sampling, the permittee shall submit to DEP for approval the procedures for the sampling and a sketch with dimensions indicating the location of sampling areas and other data to ensure the collection of representative samples. [DEP received 01/14/26]

(b) At least thirty (30) days prior to sampling, the Regional Air Quality Manager, shall be informed of the date and time of the sampling. [DEP notified 03/13/26]

(c) Within sixty (60) days after sampling, an electronic copy of the complete report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(d) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. DEP may grant an extension for a reasonable cause.

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION E. Source Group Plan Approval Restrictions.****IV. RECORDKEEPING REQUIREMENTS.**

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

V. REPORTING REQUIREMENTS.**# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

Within sixty (60) days after conducting the sampling, the permittee shall submit for approval, the proposed method of actual emission calculations for post-control VOC and HAP emissions from the biofilter, clearly indicating the proposed emission factor for each pollutant, as applicable, and all mass balance information, as applicable.

004 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Within thirty (30) days after completion of construction of all major repairs to duct work, biofilter beds, and other significant repair work and related equipment associated with Biofilter #1 and Biofilter #2, the permittee shall submit the design criteria of each biofilter, including the residence time calculations based the biofilter length and width of each segment and the height of the biofilter media bed. [DEP received 11/13/25]

005 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Within 180 days after completion of construction of all major repairs to duct work, biofilter beds, and other significant repair work and related equipment associated with Biofilter #1 and Biofilter #2, the permittee shall submit for approval a written standard operating procedure for the facility. The procedures shall include operation, inspection, and maintenance for all composting operations at the facility, including operation of Biofilter #1 and Biofilter #2. [DEP received 04/14/26]

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: GROUP 2

Group Description: All Three (3) Biofilters

Sources included in this group

ID	Name
C100ABIOFILTER #1	
C100BBIOFILTER #2	
C100CBIOFILTER #3	

I. RESTRICTIONS.**Emission Restriction(s).****# 001 [25 Pa. Code §123.21]****General**

No person may permit the emission into the outdoor atmosphere of sulfur oxides from a source in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

Control Device Efficiency Restriction(s).**# 002 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall design each biofilter such that a minimal residence time of at least 40.0 seconds is achieved for each biofilter.

Residence time (seconds) = media volume (ft³) / airflow rate (ft³/min) * 60 sec/min * media void percent.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.**# 003 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall monitor the ammonia concentration at each biofilter outlet (biofilter surface) twice per week using RKI GX-6000 (or equivalent) handheld meter, Draeger tubes, or equivalent equipment upon review and DEP approval.

(b) After six (6) months of monitoring twice per week, and upon the permittee's request, DEP will determine the feasibility of decreasing the monitoring frequency to once per week.

(c) DEP reserves the right to change the above monitoring requirements at any time, based on but not limited to: the review of the compliance certification, complaints, monitoring results, and/or DEP findings.

004 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) The permittee shall monitor the ammonia concentration in the following locations once per week:

- (1) Off-loading dock,
- (2) Receiving area,
- (3) Blending area,
- (4) Traffic aisle or corridor area,
- (5) Each biofilter intake

(b) The permittee shall measure the ammonia concentration in ppm using RKI GX-6000 (or equivalent) handheld meters, Draeger tubes (CH20501) and pumps, or equivalent equipment upon review and DEP approval.

**SECTION E. Source Group Plan Approval Restrictions.****# 005 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall monitor the biofilter media bed depth on a monthly basis. The depth of the biofilter media bed is measured from the point where the air leaves the delivery piping to the top of the biofilter media bed surface exposed to the outdoor atmosphere.

(b) The permittee shall monitor the static pressure within the biofilter manifold using a photohelic or magnehelic gauge on a quarterly basis. Records of all measurements shall be maintained and made available upon request.

[Note: Static pressure readings collected during normal operations may be used to establish a baseline range indicative of proper biofilter performance. Significant deviations from this range may indicate the need for further inspection or maintenance of the biofilter media. DEP reserves the right to incorporate a minimum or acceptable static pressure range into the permit following evaluation of the data collected during normal operations.]

IV. RECORDKEEPING REQUIREMENTS.**# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall maintain records of all ammonia concentration measurements, as per monitoring required herein.

(b) The permittee shall record all excursions and corrective actions taken in response to an excursion.

(c) The permittee shall record the commencement and completion date of any corrective action plans.

007 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) The permittee shall maintain an onsite copy of an operation, inspection, and maintenance plan for each biofilter.

(b) The permittee shall maintain an onsite copy of the most recent air sampling test results in ppm for total, post-control VOC and HAP, ammonia, sulfur oxides, and hydrogen sulfide emissions. The permittee shall clearly indicate the resulting emission factors in pounds of pollutant per wet ton of material and/or a mass balance-based emission factors in pounds of pollutant per hour (using biofilter fan exhaust flowrate and pollutant concentration) calculated for total VOC and HAP emissions.

008 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall record the following operating parameters on the frequencies described below, when the site is staffed:

(a) Moisture or humidity of the air entering the biofilter - monthly

(b) Biofilter media moisture - quarterly

(c) Static pressure of the biofilter - quarterly

(d) Biofilter media bed depth measurements - monthly.

009 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall keep the following records for each biofilter:

(a) inspections, leak tests, and smoke tests, performed,

(b) maintenance performed, including replacement of spent biofilter media,

(c) any deficiencies, and

(d) any corrective actions taken.

010 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

Upon review and DEP approval of post-control VOC and HAP emission factors to use as determined during ambient air sampling as required herein, the permittee shall maintain records of the total post-control emission calculations for VOC and HAP emissions exiting each biofilter surface to the outdoor atmosphere on a monthly and 12-month rolling sum basis.

**SECTION E. Source Group Plan Approval Restrictions.****V. REPORTING REQUIREMENTS.**

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 011 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

- (a) Failure to perform a monitoring of the ammonia concentration at any location shall be defined as an excursion.
- (b) The permittee shall maintain the ammonia monitoring equipment according to the manufacturer's recommendations.

012 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

- (a) The permittee shall develop and implement a corrective action plan as expeditiously as practicable if any of the following occurs:

- (1) Six (6) concentration excursions or six (6) failure-to-monitor excursions occur in a six-month reporting period.
 - (2) Upon review of all reported information, DEP determines that the permittee has not responded acceptably to an excursion.

- (b) The permittee shall develop a corrective action plan to include the corrective action details, a timeline for completion of corrective actions, and a requirement to notify DEP if the milestone dates will not be met.

- (c) The permittee shall provide a copy of the corrective action plan to DEP within 30 days of the end of the six-month reporting period when the excursions occurred.

- (d) The permittee shall record all corrective actions as applicable.

- (e) Following implementation of a corrective action plan, DEP may require reasonable revisions to the corrective action plan if the plan has:

- (1) Failed to address the cause of any excursion.
 - (2) Failed to provide adequate procedures for correcting excursions as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

013 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

- (a) The permittee shall reduce fugitive particulate matter from composting activities through the use of wet suppression equipment such as water hose, soaker hose, or spigot on the biofilter and irrigation system on the primary and final screens.

- (b) The permittee shall add water to the biofilter media with a soaker hose (or irrigation system) on an as-needed basis, including when moisture is observed below levels outlined in the standard operating plan, when dry spots are observed during inspection, or during excessively hot atmospheric temperature condition

014 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

- (a) The permittee shall maintain a biofilter media bed depth given in the design criteria submitted by the permittee and approved by DEP. The depth of the biofilter media bed is measured from the point where the air leaves the delivery piping to the top of the biofilter media bed surface exposed to the outdoor atmosphere.

- (b) The permittee shall replace biofilter media as needed, including when there is a reduction in contact depth and general observation of media bed degradation

015 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

- (a) At all times, the permittee shall operate and maintain the biofilter odor control device and all associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions.

**SECTION E. Source Group Plan Approval Restrictions.**

(b) The permittee shall maintain on site copies of the facility's standard operating and maintenance procedures for the biofilter.

[Determination of whether such operation and maintenance procedures are being used will be based on information available which may include, but is not limited to, monitoring results, review of standard operating and maintenance procedures, review of operation and maintenance records, and inspection of the source.]

016 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall prepare and implement a written standard operating procedure for the operation of the biofilter. The plan must contain the following operation, inspection, and maintenance items:

(a) Biofilter operating parameters to be monitored and/or inspected to determine compliance, along with established operating levels or ranges, as applicable, for each biofilter.

(b) A monitoring and/or inspection schedule for each biofilter.

(c) Procedures for the proper operation and maintenance of each biofilter used to achieve compliance with the malodor regulation.

(d) Corrective actions to be taken when biofilter operating parameters deviate from the value or range established in paragraph (a) of this condition, including procedures for recording the corrective action taken, the time corrective action was initiated, and the time/date corrective action was completed.

(e) A maintenance schedule for each biofilter that is consistent with the manufacturer's instructions and recommendations for routine and long-term maintenance, or consistent with acceptable practices within the industry, if manufacturer specifications are not available.

(f) Documentation of the work practice and pollution prevention measures used to achieve compliance with the applicable requirements.

017 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall implement an inspection and maintenance plan for the biofilter, including but not limited to the following:

(a) Inspection of the biofilter irrigation or wet suppression system for proper operation.

(b) Inspection of the extraction fans to include greasing of bearings, belt inspection and cleaning of housing per manufacturer's recommendations.

(c) Smoke test the biofilter on a quarterly basis to determine side or manifold air leakage.

(d) General observation that the biofilter is maintained in good operating condition.

(e) Inspection of the biofilter media bed for breakdown or degradation.

(f) General observation of the biofilter media.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Plan Approval facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description				
C100A	BIOFILTER #1				
<table><tr><th>Emission Limit</th><th>Pollutant</th></tr><tr><td>500.000 PPMV</td><td>SOX</td></tr></table>		Emission Limit	Pollutant	500.000 PPMV	SOX
Emission Limit	Pollutant				
500.000 PPMV	SOX				
C100B	BIOFILTER #2				
<table><tr><th>Emission Limit</th><th>Pollutant</th></tr><tr><td>500.000 PPMV</td><td>SOX</td></tr></table>		Emission Limit	Pollutant	500.000 PPMV	SOX
Emission Limit	Pollutant				
500.000 PPMV	SOX				
C100C	BIOFILTER #3				
<table><tr><th>Emission Limit</th><th>Pollutant</th></tr><tr><td>500.000 PPMV</td><td>SOX</td></tr></table>		Emission Limit	Pollutant	500.000 PPMV	SOX
Emission Limit	Pollutant				
500.000 PPMV	SOX				

Site Emission Restriction Summary

Emission Limit		Pollutant
24.900 Tons/Yr	based on a 12-month rolling sum	VOC
24.900 Tons/Yr	any combination HAP, based on a 12-month rolling sum	Hazardous Air Pollutants
9.900 Tons/Yr	any individual HAP, based on a 12-month rolling sum	Hazardous Air Pollutants
99.900 Tons/Yr	based on a 12-month rolling sum	SOX
6.250 PPMV		Ammonia
0.300 PPMV		Hydrogen Sulfide

**SECTION H. Miscellaneous.**

All emission concentrations in ppm should be interpreted as an instantaneous, maximum allowable concentration, unless an averaging period is specified. This means the concentration must not exceed that value at any time during operation.



***** End of Report *****
