



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

STATE ONLY NATURAL MINOR OPERATING PERMIT

Issue Date: October 17, 2025

Effective Date: October 17, 2025

Expiration Date: October 16, 2030

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 operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit 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 permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated.

State Only Permit No: 46-00248

Natural Minor

Federal Tax Id - Plant Code: 23-6002927-1

Owner Information

Name: POTTSTOWN BORO MONTGOMERY CNTY

Mailing Address: 100 E HIGH ST

POTTSTOWN, PA 19464-5438

Plant Information

Plant: POTTSTOWN BORO AUTH WWTP/POTTSTOWN

Location: 46 Montgomery County

46005 Pottstown Borough

SIC Code: 4952 Trans. & Utilities - Sewerage Systems

Responsible Official

Name: JUSTIN M KELLER

Title: BORO MGR

Phone: (610) 970 - 6510

Email: jkeller@pottstown.org

Permit Contact Person

Name: BRENT M WAGNER

Title: UTILITIES DIR

Phone: (610) 970 - 6540

Email: bwagner@pottstown.org

[Signature] _____

JILLIAN A. GALLAGHER, SOUTHEAST REGION AIR PROGRAM MANAGER



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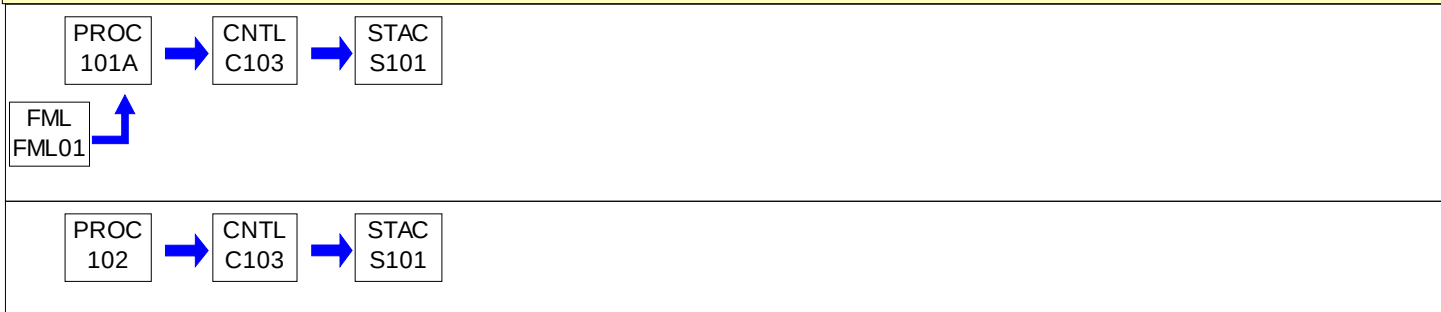
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Source ID	Source Name	Capacity/Throughput	Fuel/Material
101A	SLUDGE DRYING PROCESS	7.700 MMBTU/HR	
		1,122.000 Gal/HR	WET SLUDGE MATERIAL
		7.700 MCF/HR	Natural Gas
102	SLUDGE HOLDING TANK (T-6)		
C103	DUAL-STAGE ODOR CONTROL SYSTEM	N/A	
FML01	NATURAL GAS PIPELINE		
S101	DUAL-STAGE ODOR CONTROL SYSTEM (BIOFILTER) STACK		

PERMIT MAPS

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

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

#002 [25 Pa. Code § 127.446]**Operating Permit Duration.**

- (a) This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit.
- (b) The terms and conditions of the expired permit shall automatically continue pending issuance of a new operating permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit.

#003 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446 & 127.703(b)]**Permit Renewal.**

- (a) The permittee shall submit a timely and complete application for renewal of the operating permit to the appropriate Regional Air Program Manager. The application for renewal of the operating permit shall be submitted at least six (6) months and not more than 18 months before the expiration date of this permit.
- (b) The application for permit renewal shall include the current permit number, a description of any permit revisions that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.
- (c) The permittee shall submit with the renewal application a fee for the processing of the application as specified in 25 Pa. Code § 127.703(b). The fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" and submitted with the fee form to the respective regional office.
- (d) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413.
- (e) The application for renewal of the operating permit shall also include submission of supplemental compliance review forms in accordance with the requirements of 25 Pa. Code § 127.412(b) and § 127.412(j).
- (f) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information as necessary to address any requirements that become applicable to the source after the permittee submits a complete application, but prior to the date the Department takes action on the permit application.

#004 [25 Pa. Code § 127.703]**Operating Permit Fees under Subchapter I.**

- (a) The permittee shall pay the annual operating permit maintenance fee according to the following fee schedule in either paragraph (1) or (2) in accordance with 25 Pa. Code § 127.703(d) on or before December 31 of each year for the next calendar year.
- (1) For a synthetic minor facility, a fee equal to:
- (i) Four thousand dollars (\$4,000) for calendar years 2021—2025.
 - (ii) Five thousand dollars (\$5,000) for calendar years 2026—2030.
 - (iii) Six thousand three hundred dollars (\$6,300) for the calendar years beginning with 2031.
- (2) For a facility that is not a synthetic minor, a fee equal to:

**SECTION B. General State Only Requirements**

- (i) Two thousand dollars (\$2,000) for calendar years 2021—2025.
- (ii) Two thousand five hundred dollars (\$2,500) for calendar years 2026—2030.
- (iii) Three thousand one hundred dollars (\$3,100) for the calendar years beginning with 2031.

(b) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

#005 [25 Pa. Code §§ 127.450 (a)(4) and 127.464]**Transfer of Operating Permits.**

- (a) This operating permit may not be transferred to another person, except in cases of transfer-of-ownership that are documented and approved by the Department.
- (b) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership of the source shall be treated as an administrative amendment if the Department determines that no other change in the permit is required and a written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee and a compliance review form has been submitted to, and the permit transfer has been approved by, the Department.
- (c) This operating permit is valid only for those specific sources and the specific source locations described in this permit.

#006 [25 Pa. Code § 127.441 and 35 P.S. § 4008]**Inspection and Entry.**

- (a) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Department or authorized representatives of the Department to perform the following:
 - (1) Enter at reasonable times upon the permittee's premises where a source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;
 - (2) Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
 - (3) Inspect at reasonable times, any facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;
 - (4) Sample or monitor, at reasonable times, any substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.
- (b) 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 or regulations adopted thereunder including denying the Department access to a source at this facility. Refusal of entry or access may constitute grounds for permit revocation and assessment of criminal and/or civil penalties.
- (c) Nothing in this permit condition shall limit the ability of the EPA to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#007 [25 Pa. Code §§ 127.441 & 127.444]**Compliance Requirements.**

- (a) The permittee shall comply with the conditions of this operating permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one or more of the following:
 - (1) Enforcement action

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(2) Permit termination, revocation and reissuance or modification

(3) Denial of a permit renewal application

(b) A person may not cause or permit the operation of a source which is subject to 25 Pa. Code Article III unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued for the source is operated and maintained in accordance with specifications in the applications and the conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to 25 Pa. Code Chapter 127 in a manner inconsistent with good operating practices.

(c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this State-Only permit. Nothing in this sub-condition shall be construed to create an independent affirmative duty upon the permittee to obtain a predetermination from the Department for physical configuration or engineering design detail changes made by the permittee.

#008 [25 Pa. Code § 127.441]**Need to Halt or Reduce Activity Not a Defense.**

It shall not be a defense for the permittee in an enforcement action that it was necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

#009 [25 Pa. Code §§ 127.442(a) & 127.461]**Duty to Provide Information.**

(a) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of each source at the facility.

(b) The permittee shall furnish to the Department, in writing, information that the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to maintain in accordance with this permit.

#010 [25 Pa. Code § 127.461]**Revising an Operating Permit for Cause.**

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

(1) The permittee constructs or operates the source subject to the operating permit so that it is in violation of the Air Pollution Control Act, the Clean Air Act, the regulations thereunder, a plan approval, a permit or in a manner that causes air pollution.

(2) 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.

(3) The permittee has failed to submit a report required by the operating permit or an applicable regulation.

(4) The EPA determines that the permit is not in compliance with the Clean Air Act or the regulations thereunder.

#011 [25 Pa. Code §§ 127.450, 127.462, 127.465 & 127.703]**Operating Permit Modifications**

(a) The permittee is authorized to make administrative amendments, minor operating permit modifications and significant operating permit modifications, under this permit, as outlined below:

(b) Administrative Amendments. The permittee shall submit the application for administrative operating permit amendments (as defined in 25 Pa. Code § 127.450(a)), according to procedures specified in § 127.450 unless

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precluded by the Clean Air Act or its regulations.

(c) Minor Operating Permit Modifications. The permittee shall submit the application for minor operating permit modifications (as defined 25 Pa. Code § 121.1) in accordance with 25 Pa. Code § 127.462.

(d) Significant Operating Permit Modifications. The permittee shall submit the application for significant operating permit modifications in accordance with 25 Pa. Code § 127.465.

(e) The applicable fees shall be made payable to "The Commonwealth of Pennsylvania Clean Air Fund" with the permit number clearly indicated and submitted to the respective regional office.

#012 [25 Pa. Code § 127.441]**Severability Clause.**

The provisions of this permit are severable, and if any provision of this permit is determined by a court of competent jurisdiction to be invalid or unenforceable, such a determination will not affect the remaining provisions of this permit.

#013 [25 Pa. Code § 127.449]**De Minimis Emission Increases.**

(a) This permit authorizes de minimis emission increases in accordance with 25 Pa. Code § 127.449 so long as the permittee provides the Department with seven (7) days prior written notice before commencing any de minimis emissions increase. The written notice shall:

(1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.

(2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

(b) The Department may disapprove or condition de minimis emission increases at any time.

(c) Except as provided below in (d), the permittee is authorized to make de minimis emission increases (expressed in tons per year) up to the following amounts without the need for a plan approval or prior issuance of a permit modification:

(1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.

(2) One ton of NO_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.

(3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.

(4) Six-tenths of a ton of PM₁₀ from a single source during the term of the permit and 3.0 tons of PM₁₀ at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.

(5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act, the regulations thereunder or 25 Pa. Code Article III.

(6) Other sources and classes of sources determined to be of minor significance by the Department.

(d) In accordance with § 127.14, the permittee is authorized to install the following minor sources without the need for a plan approval or permit modification:

(1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.

**SECTION B. General State Only Requirements**

- (2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.
- (3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code §123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.
- (4) Space heaters which heat by direct heat transfer.
- (5) Laboratory equipment used exclusively for chemical or physical analysis.
- (6) Other sources and classes of sources determined to be of minor significance by the Department.
- (e) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:
 - (1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (c)(4) and (5) of this permit condition.
 - (2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.
 - (3) Violate any applicable requirement of this permit, the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.
- (f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.
- (g) Except for de minimis emission increases, installation of minor sources made pursuant to this permit condition and Plan Approval Exemptions under 25 Pa. Code § 127.14 (relating to exemptions), the permittee is prohibited from making changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.
- (h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#014 [25 Pa. Code § 127.3]**Operational Flexibility.**

The permittee is authorized to make changes within the facility in accordance with the regulatory provisions outlined in 25 Pa. Code § 127.3 (relating to operational flexibility) to implement the operational flexibility requirements provisions authorized under Section 6.1(i) of the Air Pollution Control Act and the operational flexibility terms and conditions of this permit. The provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements include the following:

- (1) Section 127.14 (relating to exemptions)
- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with Federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)
- (5) Section 127.450 (relating to administrative operating permit amendments)
- (6) Section 127.462 (relating to minor operating permit modifications)
- (7) Subchapter H (relating to general plan approvals and general operating permits)

**SECTION B. General State Only Requirements****#015 [25 Pa. Code § 127.11a]****Reactivation of Sources**

- (a) The permittee may not reactivate a source that has been out of operation or production for at least one year unless the reactivation is conducted in accordance with a plan approval granted by the Department or in accordance with reactivation and maintenance plans developed and approved by the Department in accordance with 25 Pa. Code § 127.11a(a).
- (b) A source which has been out of operation or production for more than five (5) years but less than 10 years may be reactivated and will not be considered a new source if the permittee satisfies the conditions specified in 25 Pa. Code § 127.11a(b).

#016 [25 Pa. Code § 127.36]**Health Risk-based Emission Standards and Operating Practice Requirements.**

- (a) When needed to protect public health, welfare and the environment from emissions of hazardous air pollutants from new and existing sources, the permittee shall comply with the health risk-based emission standards or operating practice requirements imposed by the Department, except as precluded by §§ 6.6(d)(2) and (3) of the Air Pollution Control Act [35 P.S. § 4006.6(d)(2) and (3)].
- (b) A person challenging a performance or emission standard established by the Department has the burden to demonstrate that performance or emission standard does not meet the requirements of Section 112 of the Clean Air Act.

#017 [25 Pa. Code § 121.9]**Circumvention.**

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 25 Pa. Code Article III, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#018 [25 Pa. Code §§ 127.402(d) & 127.442]**Reporting Requirements.**

- (a) The permittee shall comply with the applicable reporting requirements of the Clean Air Act, the regulations thereunder, the Air Pollution Control Act and 25 Pa. Code Article III including Chapters 127, 135 and 139.
- (b) The permittee shall submit reports to the Department containing information the Department may prescribe relative to the operation and maintenance of any air contamination source.
- (c) Reports, test data, monitoring data, notifications and requests for renewal of the permit shall be submitted to the:
- Regional Air Program Manager
PA Department of Environmental Protection
(At the address given in the permit transmittal letter, or otherwise notified)
- (d) Any records or information including applications, forms, or reports submitted pursuant to this permit condition shall contain a certification by a responsible official as to truth, accuracy and completeness. The certifications submitted under this permit shall require a responsible official of the facility to certify that based on information and belief formed after reasonable inquiry, the statements and information in the documents are true, accurate and complete.
- (e) Any records, reports or information submitted to the Department shall be available to the public except for such records, reports or information which meet the confidentiality requirements of § 4013.2 of the Air Pollution Control Act and §§ 112(d) and 114(c) of the Clean Air Act. The permittee may not request a claim of confidentiality for any emissions data generated for the facility.

**SECTION B. General State Only Requirements****#019 [25 Pa. Code §§ 127.441(c) & 135.5]****Sampling, Testing and Monitoring Procedures.**

(a) The permittee shall comply with the monitoring, recordkeeping or reporting requirements of 25 Pa. Code Chapter 139 and the other applicable requirements of 25 Pa. Code Article III and additional requirements related to monitoring, reporting and recordkeeping required by the Clean Air Act and the regulations thereunder including the Compliance Assurance Monitoring requirements of 40 CFR Part 64, where applicable.

(b) Unless alternative methodology is required by the Clean Air Act and regulations adopted thereunder, sampling, testing and monitoring required by or used by the permittee to demonstrate compliance with any applicable regulation or permit condition shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139.

#020 [25 Pa. Code §§ 127.441(c) and 135.5]**Recordkeeping.**

(a) The permittee shall maintain and make available, upon request by the Department, the following records of monitored information:

- (1) The date, place (as defined in the permit) and time of sampling or measurements.
- (2) The dates the analyses were performed.
- (3) The company or entity that performed the analyses.
- (4) The analytical techniques or methods used.
- (5) The results of the analyses.
- (6) The operating conditions as existing at the time of sampling or measurement.

(b) The permittee shall retain records of any required monitoring data and supporting information for at least five (5) years from the date of the monitoring, sample, measurement, report or application. Supporting information includes the calibration data and maintenance records and original strip-chart recordings for continuous monitoring instrumentation, and copies of reports required by the permit.

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions.

#021 [25 Pa. Code § 127.441(a)]**Property Rights.**

This permit does not convey any property rights of any sort, or any exclusive privileges.

#022 [25 Pa. Code § 127.447]**Alternative Operating Scenarios.**

The permittee is authorized to make changes at the facility to implement alternative operating scenarios identified in this permit in accordance with 25 Pa. Code § 127.447.

#023 [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).

**SECTION B. General State Only Requirements****#024 [25 Pa. Code §135.3]****Reporting**

(a) If the facility is a Synthetic Minor Facility, the permittee shall submit by March 1 of each year an annual emissions report for the preceding calendar year. The report shall include information for all active 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. All air emissions from the facility should be estimated and reported.

(b) A source owner or operator of a Synthetic Minor Facility may request an extension of time from the Department for the filing of an annual emissions report, and the Department may grant the extension for reasonable cause.

#025 [25 Pa. Code §135.4]**Report Format**

If applicable, the emissions reports shall contain sufficient information to enable the Department to complete its emission inventory. Emissions reports shall be made by the source owner or operator in a format specified by the Department.

**SECTION C. Site Level Requirements****I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §121.7]****Prohibition of air pollution.**

The permittee shall not cause or permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. § 4003).

002 [25 Pa. Code §123.1]**Prohibition of certain fugitive emissions**

The permittee shall ensure that emission into the outdoor atmosphere of fugitive air contaminants does not occur from any source, except for the following:

- (a) Construction or demolition of buildings or structures.
- (b) Grading, paving, and maintenance of roads and streets.
- (c) 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.
- (d) Clearing of land.
- (e) Stockpiling of materials.
- (f) Open burning operations, as specified in 25 Pa. Code § 129.14 (see Condition # 007(a)–(g), Section C, of this permit).
- (g) Sources and classes of sources other than those indicated in (a)–(h), above, for which the operator has obtained a determination from the Department, in accordance with 25 Pa. Code § 123.1(b), that fugitive air contaminant emissions from the sources, after appropriate controls, meet the following requirements:
 - (1) The emissions are of minor significance with respect to causing air pollution.
 - (2) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

003 [25 Pa. Code §123.2]**Fugitive particulate matter**

The permittee shall ensure that emission into the outdoor atmosphere of fugitive particulate matter (PM) from a source(s) specified in 25 Pa. Code § 123.1 (see Condition # 002(a)–(g), Section C, of this permit), occurs in such a manner that the emission is not visible at the point it passes outside the person's property.

004 [25 Pa. Code §123.31]**Limitations**

The permittee shall ensure that emission into the outdoor atmosphere of any malodorous air contaminants from any source occurs in such a manner that the malodors are not detectable outside the property of the person on whose land the source is being operated.

005 [25 Pa. Code §123.41]**Limitations**

The permittee shall ensure that emission into the outdoor atmosphere of visible air contaminants from this facility occurs in such a manner that the opacity of the emission is neither of the following:

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

006 [25 Pa. Code §123.42]**Exceptions**

The emission restrictions specified in 25 Pa. Code § 123.41 (see Condition # 005(a)–(b), Section C, of this permit), shall not apply to a visible air contaminant emission in either of the following instances:

**SECTION C. Site Level Requirements**

- (a) When the presence of uncombined water is the only reason for failure of the emission to meet the restrictions.
- (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 a source(s) specified in 25 Pa. Code § 123.1 (see Condition # 002(a)–(g), Section C, of this permit).

007 [25 Pa. Code §129.14]**Open burning operations**

The permittee shall not perform any open burning activities, except for the following:

- (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) A 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.**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

- (a) If, at any time, the Department has cause to believe that air contaminant emissions from any source(s) listed in Sections A or H, of this permit, may be in excess of the restrictions specified in this permit or established pursuant to any applicable rule or regulation contained in 25 Pa. Code, Part I, Subpart C, Article III, the permittee shall be required to perform whatever test(s) is deemed necessary by the Department 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 Department's Source Testing Manual, and the United States Environmental Protection Agency's (EPA's) 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.

III. MONITORING REQUIREMENTS.**# 009 [25 Pa. Code §123.43]****Measuring techniques**

The permittee may measure visible air contaminant emissions using either of the following:

- (a) A device approved by the Department 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 the Department.

010 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

**SECTION C. Site Level Requirements**

- (a) The permittee shall monitor this facility, at least once per operating day, for the following:
- (1) Odors, which may be objectionable (as per 25 Pa. Code § 123.31; see Condition # 004, Section C, of this permit).
 - (2) Visible air contaminant emissions (as per 25 Pa. Code §§ 123.41 and 123.42; see Conditions # 005–006, Section C, of this permit, respectively).
 - (3) Fugitive air contaminant emissions (as per 25 Pa. Code §§ 123.1 and 123.2; see Conditions # 002–003, Section C, of this permit, respectively).
- (b) Objectionable odors, visible air contaminant emissions, and/or fugitive air contaminant emissions that are caused or may be caused by operations at the facility 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).
 - (4) Be recorded in a permanent written log.
- (c) After 6 months of daily monitoring, upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to weekly.
- (d) After 6 months of weekly monitoring, upon the permittee's request, the Department will determine the feasibility of decreasing the frequency of monitoring to monthly.
- (e) The Department reserves the right to change the above monitoring requirements at any time, based on, but not limited to, the review of complaints, monitoring results, and/or Department findings.

IV. RECORDKEEPING REQUIREMENTS.**# 011 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain all records, reports, and analysis results generated in compliance with the requirements of any section of this permit in accordance with Condition # 020(b), Section B, of this permit, and shall make them available to the Department upon written or verbal request within a reasonable time.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

(a) The permittee shall maintain records of all monitoring of odors, visible air contaminant emissions, and fugitive air contaminant emissions, including deviations from the conditions found in Conditions # 002–005, Section C, of this permit, and Condition # 002, Section D, of this permit. All records of deviations shall include, at a minimum, the following for each incident:

- (1) A description of the deviation.
 - (2) The source(s) and/or associated air pollution control device(s) and location(s).
 - (3) The duration (including the starting and ending date(s) and times).
 - (4) The cause(s).
 - (5) The corrective action(s) taken, if necessary to abate the situation and prevent future occurrences.
- (b) The monitoring shall be recorded and maintained in a Department-approved format and time frame.

**SECTION C. Site Level Requirements****# 013 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain records of all of this facility's emission increases, including the following types, in accordance with 25 Pa. Code § 127.449:

- (a) De minimis emission increases without notification to the Department.
- (b) De minimis emission increases with notification to the Department, via letter.
- (c) Emission increases resulting from a Request for Determination of Changes of Minor Significance and Exemption from Plan Approval/Operating Permit (RFD) to the Department.
- (d) Emission increases resulting from the issuance of a plan approval and subsequent operating permit.

V. REPORTING REQUIREMENTS.**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) The permittee shall report malfunctions, emergencies, or incidents of excess emissions to the Department'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 preventative 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 both the Department and the County Emergency Management Agency, by telephone, within 1 hour after the discovery of the malfunction, emergency, or incident of excess emissions. The owner or operator shall submit a written or e-mailed report of instances of such malfunctions, emergencies, or incidents of excess emissions to the Department within 3 business days of the telephone report.

(c) The report shall describe the following:

- (1) The name, permit or authorization number, and location of the facility.
- (2) The nature and cause of the malfunction, emergency, or incident.
- (3) The date and time when the malfunction, emergency, or incident was first observed.
- (4) The expected duration of excess emissions.
- (5) The estimated rate of emissions.
- (6) The corrective actions or preventative measures taken.

(d) Any malfunction, emergency, or incident of excess emissions that is not subject to the notice requirements specified in (b), above, 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 5 business days of discovery. The report shall contain the information listed in (c)(1)–(6), above, 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 of the notification and reporting requirements, in accordance with (b)–(d), above, as applicable, including any permit-specific malfunction reporting requirements.

**SECTION C. Site Level Requirements**

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

(g) Any emissions resulting from a 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.

015 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 40 CFR Part 68.]

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with all applicable provisions 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) that meets all applicable provisions 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 threshold quantity at this facility. The permittee shall submit the RMP to the EPA according to the following schedule and requirements:

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

(i) Three (3) years after the date on which a regulated substance is first listed in 40 CFR § 68.130.

(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 EPA 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 all applicable provisions of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this permit 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.

(d) If this facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall perform the following:

(1) Submit a compliance schedule for satisfying all applicable provisions of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a).

(2) Certify that the facility is in compliance with all applicable provisions of 40 CFR Part 68 including the registration and submission of the RMP.

(e) If the facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for 5 years in accordance with 40 CFR § 68.200.

(f) When the facility is subject to the accidental release program provisions of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if the permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

**SECTION C. Site Level Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 016 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 123.1(c).]

The permittee shall take all reasonable actions to prevent PM from a source(s) specified in 25 Pa. Code § 123.1 (see Condition # 002(a)–(g), Section C, of this permit), 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, oil, water, or suitable chemicals on dirt roads, material stockpiles, and other surfaces that may give rise to airborne dusts.
- (c) Paving and maintenance of roadways.
- (d) Prompt removal of earth or other material from paved roads onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

017 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code §§ 127.443(b) and 127.444.]

The permittee shall ensure that the source(s) and associated air pollution control device(s) listed in Sections A and H, of this permit, are operated and maintained in a manner consistent with good safety, operating and maintenance, and air pollution control practices, as applicable, and in accordance with the manufacturers' specifications.

018 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall immediately, upon discovery, implement measures, which may include the application for the installation of an air pollution control device(s), if necessary, to reduce the air contaminant emissions to within applicable restrictions, if at any time the operation of a source(s) listed in Sections A or H, of this permit, is causing the emission of air contaminants in excess of the restrictions specified in this permit or established pursuant to any applicable rule or regulation contained in 25 Pa. Code, Part I, Subpart C, Article III.

019 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee may not modify any air contaminant system identified in Sections A or H, of this permit, prior to obtaining Department approval, except those modifications authorized by Condition # 013(g), Section B, of this permit.

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this permit including Section B (relating to State Only General Requirements).

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

**SECTION D. Source Level Requirements**

Source ID: 101A

Source Name: SLUDGE DRYING PROCESS

Source Capacity/Throughput:

7.700 MMBTU/HR

1,122.000 Gal/HR

WET SLUDGE MATERIAL

7.700 MCF/HR

Natural Gas

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall ensure that the emission into the outdoor atmosphere of the following pollutants from this sludge drying process, as measured at the stack (Source ID S101) of the associated dual-stage odor control system (Source ID C103), occurs in such a manner that the concentrations of the emission do not exceed either of the following:

Pollutant	ppmv
CO	400
NOx	100

ppmv = ppmv, dry basis, corrected to 3% oxygen (O₂).

CO = Carbon monoxide.

NOx = Nitrogen oxides.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall monitor the following operating parameters for this sludge drying process:

- The hours of operation, on an operating day basis.
- The amount of natural gas consumed by the air heater (mcf) on a monthly basis.
- The amount of dried sludge material processed (tons) on a monthly basis.
- The differential pressure across the condenser unit, on a continuous basis.

**SECTION D. Source Level Requirements****IV. RECORDKEEPING REQUIREMENTS.****# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall maintain records of the following operating parameters for this sludge drying process:

- (a) The hours of operation, on an operating day basis.
- (b) The amount of natural gas consumed by the air heater (mcf) on a monthly basis.
- (c) The amount of dried sludge material processed (tons) on a monthly basis.
- (d) The differential pressure across the condenser unit, on a continuous basis.

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall maintain records of all maintenance performed for this sludge drying process, including that performed in accordance with Condition # 007(a)–(e), Section D (under Source ID 101A), of this permit. These records shall include, at a minimum, the following:

- (a) The date and time of the maintenance (i.e., routine and/or preventative maintenance, repairs, parts replacement, adjustments, calibrations, etc.).
- (b) The type of maintenance performed.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

(a) The permittee shall not introduce/process wet sludge material to/in the biosolids dryer of this sludge drying process until/unless all of the following conditions are met:

- (1) None of the equipment of the sludge drying process or the associated dual-stage odor control system (Source ID C103) are shut down for maintenance.
 - (2) None of the lids of the biosolids dryer chamber are open/ajar.
 - (3) The condenser unit is sealed and the pre-filter and condenser coils are installed.
 - (4) The blower has been operating for at least 12 minutes before operating the air heater, in order to purge the equipment of the sludge drying process of any natural gas.
- (b) Except for the conditions specified in (c)(1)–(3), below, the permittee shall ensure that the blower is operated for at least 15 minutes after the processing of wet sludge material in the biosolids dryer has stopped.
- (c) The permittee shall immediately stop introducing wet sludge material to the biosolids dryer, and shut down the sludge

**SECTION D. Source Level Requirements**

drying process once the remaining sludge material in the biosolids dryer has been processed, if any of the following conditions are present:

- (1) Any equipment of the sludge drying process or the associated dual-stage odor control system have malfunctioned and are not capable of normal operation.
- (2) Fugitive steam is visible at/emanating from the biosolids dryer chamber.
- (3) The temperature of the air stream at the inlet to the biofilter of/within the associated dual-stage odor control system is equal to or greater than 115 °F.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall operate and maintain a differential pressure gauge(s) or transmitter(s) to indicate the differential pressure across the condenser unit (including the pre-filter) of this sludge drying process. The permittee shall ensure the differential pressure across the condenser unit (including the pre-filter) does not exceed 20.0 inches of water.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall perform, at a minimum, the following maintenance for this sludge drying process:

- (a) A visual check of the biosolids dryer for any fugitive steam, at least once per operating day (including immediately after startup following instances of lifting and reclosing any lid(s) of the dryer chamber).
- (b) Replacement and/or manual cleaning of the pre-filter of the condenser unit, at least once per month or if the differential pressure across the condenser unit (including the pre-filter) exceeds 15.0 inches of water, whichever is more restrictive.
- (c) A visual check of the cooling tower for leaks, corrosion, scale formation, and microbial growth, at least once per month.
- (d) Cleaning and blowdown of the cooling tower, at least once every 6 months, or as needed.
- (e) Manual cleaning of the biosolids dryer (i.e., the entire chamber), and the coils of the condenser unit, at least once every 12 months.

VII. ADDITIONAL REQUIREMENTS.**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) This source is a sludge drying process comprised of the following equipment:

- (1) The following screw conveyors:
 - (i) A screw conveyor (SC-3) leading from a sludge dewatering centrifuge (existing) to another screw conveyor [(a)(1)(ii), below].
 - (ii) A screw conveyor (SC-6) leading from (a)(1)(i), above, to a sifter [(a)(2), below].
 - (iii) A dried solid conveyor (SC-7) leading from a bucket conveyor [(a)(5), below] to another screw conveyor [(a)(1)(iv), below].
 - (iv) A loading conveyor (SC-9; existing) leading from (a)(1)(iii), above.

**SECTION D. Source Level Requirements**

(2) A sifter (mixing/screening unit), which breaks down clumps in wet sludge material and directs it to a biosolids dryer [(a)(3), below].

(3) A biosolids dryer, model no. 1050, manufactured by Gryphon Environmental, LLC. The dryer dries wet sludge material, and has a processing capacity of approximately 72 tons/day. Wet sludge material proceeds through the dryer chamber along an internal polyphenylene sulfide (PPS) belt conveyor to a cooling auger [(a)(4), below]. Air flow proceeds through the dryer to/through a condenser unit [(a)(6), below], then back through pre-heat tubes within the dryer (to recover waste heat that was not absorbed by the wet sludge material) before proceeding to/through a blower [(a)(8), below].

(4) An auger, which directs the dried sludge material to a bucket conveyor [(a)(5), below].

(5) A bucket conveyor, which leads from (a)(4), above, to (a)(1)(iii), above.

(6) A condenser unit. The condenser unit includes a pre-filter to clean the air flow from (a)(3), above, prior to condensing, to enable its recirculation. Air flow proceeds through the condenser unit to/through pre-heat tubes within (a)(3), above.

(7) A 400-ton cooling tower, model no. T-2400, manufactured by Cooling Tower Systems, Inc. The cooling tower circulates cooling water through (a)(6), above.

(8) A blower, which recirculates air flow through the sludge drying process. Air flow proceeds through the blower to/through one of the following:

(i) An air heater [(a)(9), below] (approximately 90%).

(ii) The associated dual-stage odor control system (Source ID C03) (approximately 10%).

(9) An air heater, model no. AHDR070 (Air Heater, Duct-type, Recirculating), manufactured by Stelter & Brinck, Ltd. The air heater heats/reheats the recirculated air flow, and is equipped with a natural gas-fired burner rated at 7.7 mmBtu/hr heat input. Air flow (including the products of combustion) proceeds through the air heater to/through (a)(3), above.

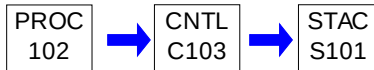
(b) Odor/H₂S emissions from the sludge drying process, as well as the products of combustion from (a)(9), above, are (ultimately) routed to/through an associated dual-stage odor control system before exhausting into the outdoor atmosphere.

**SECTION D. Source Level Requirements**

Source ID: 102

Source Name: SLUDGE HOLDING TANK (T-6)

Source Capacity/Throughput:

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

(a) The permittee shall ensure that the top of this sludge holding tank is covered prior to exhausting air flow from it to the dual-stage odor control system (Source ID C103).

(b) The permittee shall not exhaust air flow from the sludge holding tank to the dual-stage odor control system if the latter is shut down for maintenance.

VII. ADDITIONAL REQUIREMENTS.**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) This source consists of a sludge holding tank (T-6; also referred to as "the pit") with a capacity of 29,620 gallons (112.1 m³).

(b) Odor/H₂S emissions from the sludge holding tank shall be routed to an associated dual-stage odor control system (Source ID C103) before exhausting into the outdoor atmosphere.

**SECTION D. Source Level Requirements**

Source ID: C103

Source Name: DUAL-STAGE ODOR CONTROL SYSTEM

Source Capacity/Throughput:

N/A

I. RESTRICTIONS.**Control Device Efficiency Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

(a) The permittee shall ensure that this dual-stage odor control system achieves and maintains 100% capture of the exhaust air/gas flow from the sludge drying process (Source ID 101A) and sludge holding tank (Source ID 102). [Note: The absence of fugitive steam visible at/emanating from the biosolids dryer of the sludge drying process shall serve as verification of 100% capture of the exhaust air/gas flow from the sludge drying process.]

(b) The permittee shall ensure that the dual-stage odor control system achieves and maintains a minimum H₂S removal efficiency of 99%, or otherwise, an outlet H₂S emission concentration of less than 0.1 ppmv. [Note: The outlet H₂S emission concentration restriction is indicated for inlet H₂S concentration levels of less than 10 ppmv.]

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

III. MONITORING REQUIREMENTS.**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall monitor the following operating parameters for this dual-stage odor control system:

- (a) The hours of operation, on a monthly basis.
- (b) The temperatures of the air streams at the inlets to both stages (i.e., the biotrickling filter and biofilter), on a continuous basis.
- (c) The flow rates of water to/within both stages, as follows, on a continuous basis:
 - (1) The irrigation water to the biofilter.
 - (2) The recycle loop from the biofilter to the biotrickling filter.
- (d) The differential pressures across both stages, on an operating day basis.

IV. RECORDKEEPING REQUIREMENTS.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall maintain records of the following operating parameters for this dual-stage odor control system:

- (a) The hours of operation, on a monthly basis.
- (b) The temperatures of the air streams at the inlets to both stages, on a continuous basis.

**SECTION D. Source Level Requirements**

(c) The flow rates of water to/within both stages, as follows:

- (1) The irrigation water to the biofilter, on a daily basis.
- (2) The recycle loop from the biofilter to the biotrickling filter, on a continuous basis.

(d) The differential pressures across both stages, on an operating day basis.

004 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall maintain records of all maintenance performed for this dual-stage odor control system, including that performed in accordance with Condition # 008(a)–(b), Section D (under Source ID C103), of this permit. These records shall include, at a minimum, the following:

- (a) The date and time of the maintenance.
- (b) The type of maintenance performed.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (State Only General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall operate and maintain thermocouples/indicators to indicate the temperatures of the air streams at the inlets to both stages of this dual-stage odor control system. The permittee shall also operate and maintain an audible and/or visible alarm to indicate if the temperature of the air stream at the inlet to the biofilter reaches the following thresholds, and take the following corresponding actions:

Temperature	Corresponding Action(s)
110 °F	Reduce the air flow rate from, and/or heat input to the air heater of, the sludge drying process (Source ID 101A).
115 °F	Minimize the air flow rate from the sludge drying process, shut down the air heater of the sludge drying process, and maximize the air flow rate from the sludge holding tank (Source ID 102) until the temperature of the air stream at the inlet to the biofilter is reduced to less than 110 °F.

006 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall operate and maintain flow meters to indicate the flow rates of water to/within both stages of this dual-stage odor control system, as follows. The permittee shall maintain the following minimum flow rates:

Type of Water/Flow Meter Location	Minimum Flow Rate
Irrigation Water to Biofilter	30 gallons every 2 days
Recycle Loop from Biofilter to Biotrickling Filter	15 gals/min

**SECTION D. Source Level Requirements****# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code § 127.443(b).]

The permittee shall operate and maintain differential pressure gauges to indicate the differential pressures across both stages of this dual-stage odor control system. The permittee shall ensure that the differential pressures across the stages do not exceed the following values:

Stage	Inches of Water
Biotrickling Filter	4
Biofilter	10

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

The permittee shall perform, at a minimum, the following maintenance for this dual-stage odor control system:

- (a) A visual check of the media of the biotrickling filter and biofilter for general condition, at least once every 12 months.
- (b) Replacement of the media of the biotrickling filter and/or biofilter, as applicable, every 10 years, if the media is degraded or compacted, or if the differential pressure(s) across the biotrickling filter and/or biofilter exceed the value(s) specified in Condition # 007, Section D (under Source ID C103), of this permit, whichever is most restrictive.

VII. ADDITIONAL REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) This source consists of a dual-stage odor control system, job no. 17-4024, manufactured by BIOREM Technologies, Inc., as follows:

- (1) A counterflow biotrickling filter (humidifier) with synthetic, engineered, inorganic, random-packed media.
- (2) A biofilter with engineered, inorganic media formulated with nutrients, buffering agents, and adsorbents.

(b) The dual-stage odor control system is rated at 2,600 acfm total air flow, and controls odor/H₂S emissions from the sludge drying process (Source ID 101A) and sludge holding tank (Source ID 102).



SECTION E. Source Group Restrictions.

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this State Only facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description
101A	SLUDGE DRYING PROCESS
Emission Limit	
400.000 PPMV	Dry Basis, Corrected to 3% O ₂ ; At the Stack of the Associated Dual-Stage Odor Control System
100.000 PPMV	Dry Basis, Corrected to 3% O ₂ ; At the Stack of the Associated Dual-Stage Odor Control System
C103	DUAL-STAGE ODOR CONTROL SYSTEM
Emission Limit	
0.100 PPMV	Applies if the H ₂ S Inlet Concentration is Less Than 10 ppmv

Site Emission Restriction Summary

Emission Limit	Pollutant
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**SECTION H. Miscellaneous.**

(a) The plant address is: 1269 Industrial Highway, Pottstown, PA 19464.

(b) Previously-issued Plan Approval No. 46-0248A serves as the basis for certain terms and conditions set forth in this permit.

(c) The following sources have been determined by the Department to be insignificant sources of air contaminant emissions and, therefore, do not require additional restrictions, monitoring, or recordkeeping. They are still subject to any applicable federal, state, and local laws and regulations, including those indicated in Section C, of this permit:

(1) Four natural gas-fired HVAC units (with electric cooling), as follows:

Manufacturer	Model No.	Rated Heat Input	Quantity
Daikin Co., L.P.	DCG0902104VXXX	0.21 mmBtu/hr	2
Industrial Commercial Equipment Manufacturing Ltd.	GIDM-100 HBR	1.25 mmBtu/hr	2
		2.92 mmBtu/hr	4

(2) Four natural gas-fired space heaters, model no. QVF-75S, manufactured by Sterling HVAC Products. Each space heater is rated at 75 mBtu/hr heat input (0.30 mmBtu/hr heat input total).

(3) An electric hot water heater.

(d) This permit (APS ID 685549, Auth ID 1479892) is a renewal of State Only Operating Permit No. 46-00248, which was originally issued on December 9, 2008 (APS ID 643360, Auth ID 721074), previously renewed on December 6, 2013 (APS ID 685549, Auth ID 985324) and December 10, 2019 (APS ID 685549, Auth ID 1235014), and previously amended on December 10, 2019 (APS ID 685549, Auth ID 1291792). The following is a listing of the changes reflected in this permit:

(1) E-mail addresses for the responsible official and permit contact person have been added to the cover page of this permit.

(2) The plant name on the cover page of the previously-renewed permit (same location in this permit) has been corrected to Pottstown Borough Authority WWTP.

(3) The following for Condition # 003, Section B, of the previously-renewed permit (same condition number in this permit):

(i) The citation to 25 Pa. Code § 127.703(c) has been removed.

(ii) The following for Sub-condition (c):

(A) References to an annual operating permit administrative fee and 25 Pa. Code § 127.703(c) have been removed.

(B) The language of the second sentence has been changed to require the permittee to submit the application fee "with the fee form to the respective regional office."

(C) The application and annual operating permit administrative fee schedule, as specified in Sub-condition (c)(1)–(2), has been removed.

(4) The following for Condition # 004, Section B, of the previously-renewed permit (same condition number in this permit):

(i) The application and annual operating permit administrative fee schedules, as specified in Sub-conditions (a)–(b), respectively, have been removed.

(ii) The following for Sub-condition (c):

(A) It has been reorganized as Sub-condition (b).

(B) The phrase "with the permit number clearly indicated and submitted to the respective regional office" has been added to the end of the sub-condition.

(iii) An annual operating permit maintenance fee schedule for synthetic minor and non-synthetic minor facilities has been

**SECTION H. Miscellaneous.**

added as Sub-conditions (a)(1)–(2), respectively.

(5) The following for Condition # 011, Section B, of the previously-renewed permit (same condition number in this permit):

(i) Citations to 25 Pa. Code §§ 127.465 and 127.703 have been added.

(ii) The following for Sub-condition (d):

(A) The references to 25 Pa. Code § 127.541 and "the public notification procedures in [25 Pa. Code] §§ 127.424 and 127.425" have been removed.

(B) A requirement to "submit the application for significant operating permit modifications in accordance with 25 Pa. Code § 127.465" has been added.

(iii) A statement that "applicable fees shall be made payable to 'The Commonwealth of Pennsylvania Clean Air Fund' with the permit number clearly indicated and submitted to the respective regional office" has been added as Sub-condition (e).

(6) Requirements that emissions reports contain sufficient information to enable the Department to complete its emission inventory, and be made in a format specified by the Department, have been added as Condition # 024, Section B, of this permit.

(7) The exceptions for emission into the outdoor atmosphere of fugitive air contaminants from blasting in open pit mines and coke oven batteries, as indicated in Condition # 002(a)(7)–(8), Section C, of the previously-renewed permit, respectively, have been removed.

(8) Condition # 014, Section C, of the previously-renewed permit (same condition number in this permit), has been updated to include additional requirements pertaining to malfunctions, as well as new requirements pertaining to emergencies and incidents of excess emissions.

(9) Condition # 016, Section C, of the previously-renewed permit, has been moved to Condition # 023, Section B, of this permit.

(10) The requirements to monitor and maintain records of the temperature and flow rate of the recirculated air stream (between the pre-heat tubes and the blower) through the sludge drying process, as indicated in Condition #s 002(d)(1)–(2) and 003(d)(1)–(2), Section D (under Source ID 101A), of the previously-renewed permit, respectively, have been removed.

(11) The following for Condition # 005(c)(3), Section D (under Source ID 101A), of the previously-renewed permit (same condition number in this permit):

(i) The temperature restriction for the air stream has been changed from applying at the inlet to the biotrickling filter of the dual-stage odor control system (Source ID C103) associated with the sludge drying process to applying at the inlet to the biofilter.

(ii) The value of the temperature restriction has been changed from 120 °F to 115 °F.

(12) The requirements to operate and maintain a thermocouple/indicator and an audible and/or visible alarm to indicate the temperature of the recirculated air stream (between the pre-heat tubes and the blower) through the sludge drying process and if the temperature reaches certain thresholds, respectively, as well as corresponding actions to take upon reaching the temperature thresholds, as indicated in Condition # 006, Section D (under Source ID 101A), of the previously-renewed permit, have been removed.

(13) The requirement to operate and maintain a device or instrumentation to indicate or calculate the flow rate of the recirculated air stream (between the pre-heat tubes and the blower) through the sludge drying process, as indicated in Condition # 007, Section D (under Source ID 101A), of the previously-renewed permit, has been removed.

(14) The following for Condition # 008(a), Section D (under Source ID 101A), of the previously-renewed permit (same condition number in this permit):

(i) The language in Sub-condition (a)(4) has been changed such that the auger is no longer indicated as cooling the dried sludge material processed in the sludge drying process.

(ii) The language in Sub-condition (a)(7) has been changed such that cooling tower is no longer indicated as circulating cooling

**SECTION H. Miscellaneous.**

water through the auger of the sludge drying process.

(15) Requirements to monitor and maintain records of the temperature of the air stream at the inlet to the biofilter of the dual-stage odor control system have been added to Condition #s 002(b) and 003(b), Section D (under Source ID C103), of the previously-renewed permit (same condition number in this permit), respectively.

(16) The following for Condition # 005, Section D (under Source ID C103), of the previously-renewed permit (same condition number in this permit):

(i) A requirement to operate and maintain a thermocouple/indicator to indicate the temperature of the air stream at the inlet to the biofilter of the dual-stage odor control system has been added.

(ii) The requirement to operate and maintain an audible and/or visible alarm to indicate if the temperature of the air stream through the dual-stage odor control system reaches certain thresholds has been changed from applying at the inlet to the biotrickling filter to applying at the inlet to the biofilter.

(iii) The values of the temperature thresholds have been changed from 115 °F and 120 °F, respectively, to 110 °F and 115 °F, respectively.

(iv) The following for the action corresponding to the higher temperature threshold:

(A) It has been changed from applying at the inlet to the biotrickling filter to applying at the inlet to the biofilter.

(B) The value of the temperature restriction has been changed from 115 °F to 110 °F.



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