

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 5-0942-00006/00009
Effective Date: 04/18/2023 Expiration Date: 04/17/2033

Permit Issued To: CITY OF PLATTSBURGH
41 CITY HALL PL
PLATTSBURGH, NY 12901

Facility: Plattsburgh Organics Recycling Plant
REEVES LN
PLATTSBURGH, NY 12901

Contact: JONATHAN P RUFF
ENVIRONMENTAL SERVICES DEPT
41 CITY HALL PL
PLATTSBURGH, NY 12901-2936
(518) 563-7731

Description:

The Facility processes biosolids from municipal wastewater treatment plants using either composting or alkaline stabilization where biosolids are mixed with lime based materials and optionally fly ash that can be used as a soil amendment. The facility has air handling equipment and a stack for emissions dispersion. All raw and processed material, with the exception of woodchips and/or sawdust bulking agents for composting, will be kept in enclosed containers. There will be no outdoor stockpiles of materials other than the bulking agents described above. All activity takes place in the NVIRO process building and all emissions from this building discharge through the existing emission stack.

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: ERIN M DONHAUSER
NYSDEC - REGION 5
PO BOX 296
RAY BROOK, NY 12977-0296

Authorized Signature: _____ Date: ___ / ___ / ____

Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

PAGE LOCATION OF CONDITIONS

PAGE

DEC GENERAL CONDITIONS

General Provisions

- 4 1 Facility Inspection by the Department
- 4 2 Relationship of this Permit to Other Department Orders and Determinations
- 4 3 Applications for permit renewals, modifications and transfers
- 4 4 Permit modifications, suspensions or revocations by the Department

Facility Level

- 5 5 Submission of application for permit modification or renewal-REGION 5 SUBOFFICE - WARRENSBURG

DEC GENERAL CONDITIONS
****** General Provisions ******
GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations

Applicable State Requirement: ECL 3-0301 (2) (m)

Item 2.1:

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:

The permittee must submit a renewal application at least 180 days before the expiration of permits for Title V and State Facility Permits.

Item 3.3

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

Condition 4: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

The Department reserves the right to exercise all available authority to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

****** Facility Level ******

**Condition 5: Submission of application for permit modification or renewal-REGION 5
SUBOFFICE - WARRENSBURG**

Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:

NYSDEC Regional Permit Administrator
Region 5 Sub-office
Division of Environmental Permits
232 Golf Course Road
Warrensburg, NY 12885-1172
(518) 623-1281

Permit ID: 5-0942-00006/00009

Facility DEC ID: 5094200006

Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: CITY OF PLATTSBURGH
41 CITY HALL PL
PLATTSBURGH, NY 12901

Facility: Plattsburgh Organics Recycling Plant
REEVES LN
PLATTSBURGH, NY 12901

Authorized Activity By Standard Industrial Classification Code:
4952 - SEWERAGE SYSTEMS
4953 - REFUSE SYSTEMS
9511 - AIR, WATER & SOLID WASTE MANAGEMENT

Permit Effective Date: 04/18/2023

Permit Expiration Date: 04/17/2033

PAGE LOCATION OF CONDITIONS

PAGE**FEDERALLY ENFORCEABLE CONDITIONS****Facility Level**

7	1	6 NYCRR 211.2: Visible Emissions Limited
7	2	6 NYCRR 212-2.1 (b): Compliance Demonstration
7	3	6 NYCRR 212-2.1 (b): Compliance Demonstration
8	4	6 NYCRR 212-2.1 (b): Compliance Demonstration
9	5	6 NYCRR 212-2.4 (b): Compliance Demonstration

Emission Unit Level**EU=1-00001**

10	6	6 NYCRR 212-1.6 (a): Compliance Demonstration
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STATE ONLY ENFORCEABLE CONDITIONS**Facility Level**

13	7	ECL 19-0301: Contaminant List
14	8	6 NYCRR 201-1.4: Malfunctions and Start-up/Shutdown Activities
14	9	6 NYCRR Subpart 201-5: Emission Unit Definition
15	10	6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits
15	11	6 NYCRR 201-5.3 (c): CLCPA Applicability
15	12	6 NYCRR 201-5.3 (c): Compliance Demonstration
16	13	6 NYCRR 211.1: Air pollution prohibited
16	14	6 NYCRR 211.1: Compliance Demonstration
17	15	6 NYCRR 211.1: Compliance Demonstration
17	16	6 NYCRR 211.1: Compliance Demonstration
18	17	6 NYCRR 211.1: Compliance Demonstration
18	18	6 NYCRR 211.1: Compliance Demonstration
19	19	6 NYCRR 211.1: Compliance Demonstration
20	20	6 NYCRR 211.1: Compliance Demonstration
20	21	6 NYCRR 211.1: Compliance Demonstration
21	22	6 NYCRR 211.1: Compliance Demonstration
21	23	6 NYCRR 211.1: Compliance Demonstration
22	24	6 NYCRR 211.1: Compliance Demonstration
23	25	6 NYCRR 211.1: Compliance Demonstration
24	26	6 NYCRR 211.1: Compliance Demonstration
24	27	6 NYCRR 211.1: Compliance Demonstration
25	28	6 NYCRR 211.1: Compliance Demonstration
25	29	6 NYCRR 211.1: Compliance Demonstration
26	30	6 NYCRR 211.1: Compliance Demonstration
26	31	6 NYCRR 211.1: Compliance Demonstration

Emission Unit Level

27	32	6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
27	33	6 NYCRR Subpart 201-5: Process Definition By Emission Unit

EU=1-00001,EP=00001

29	34	6 NYCRR 211.1: Compliance Demonstration
30	35	6 NYCRR 211.1: Compliance Demonstration

FEDERALLY ENFORCEABLE CONDITIONS
Renewal 1/FINAL **** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Sealing - 6 NYCRR 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation.

Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Item C: Maintenance of Equipment - 6 NYCRR 200.7

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications, required to operate such device effectively.

Item D: Unpermitted Emission Sources - 6 NYCRR 201-1.2

(a) Except as otherwise provided by this Part, construction or operation of a new, modified or existing air contamination source without a registration or permit issued pursuant to this Part is prohibited.

(b) If an existing facility or emission source was subject to the permitting requirements of this Part at the time of construction or modification, and the owner or operator failed to apply for a permit or registration as described in this Part, the owner or operator must apply for a permit or registration in accordance with the provisions of this Part. The facility or emission source is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing emission sources.

Item E: Recycling and Salvage - 6 NYCRR 201-1.7

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

Item F: Prohibition of Reintroduction of Collected Contaminants to the Air - 6 NYCRR 201-1.8

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Item G: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR 201-3.2 (a)

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item H: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR 201-3.3 (a)

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all

required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item I: Required Emission Tests - 6 NYCRR 202-1.1

An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6 NYCRR Subpart 202-1.

Item J: Open Fires Prohibitions - 6 NYCRR 215.2

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

Item K: Permit Exclusion - ECL 19-0305

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item L: Federally Enforceable Requirements - 40 CFR 70.6 (b)

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 1: Visible Emissions Limited
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable Federal Requirement:6 NYCRR 211.2

Item 1.1:

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

Condition 2: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable Federal Requirement:6 NYCRR 212-2.1 (b)

Item 2.1:

The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: 1-00001 Emission Point: 00001
Process: BIO

Regulated Contaminant(s):
CAS No: 0NY500-00-0 TOTAL REDUCED SULFUR

Item 2.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The permittee shall continuously monitor and record scrubber stage 1 recirculation rate. The recirculation rate shall not fall below 200 gpm at any time. The monitoring of this surrogate will assist in demonstrating the effective removal of ammonia. This surrogate may be modified pending stack tests results.

Parameter Monitored: TOTAL REDUCED SULFUR

Upper Permit Limit: 1.0 pounds per hour

Reference Test Method: Method 16

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 3: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable Federal Requirement:6 NYCRR 212-2.1 (b)**Item 3.1:**

The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: 1-00001 Emission Point: 00001
Process: NVR

Regulated Contaminant(s):
CAS No: 007664-41-7 AMMONIA

Item 3.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Under the scenario that alkiline stabilization process is operated as the sole process (no contribution to emissions from the Bio process), the emissions rate potential (ERP) for ammonia cannot exceed 9 #/hr. A performance test shall be conducted at worst case (e.g., anaerobically digested sludge) and maximum throughput within 180 days of start up. Additional testing shall be conducted at the discretion of the Department.

Parameter Monitored: AMMONIA

Upper Permit Limit: 9 pounds per hour

Reference Test Method: NIOSH Method 6701

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 4: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable Federal Requirement:6 NYCRR 212-2.1 (b)**Item 4.1:**

The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: 1-00001 Emission Point: 00001

Regulated Contaminant(s):
CAS No: 007664-41-7 AMMONIA

Item 4.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

A performance test demonstrating ammonia removal shall be

conducted within 180 days of the date upon which both the AST and BIO processes become operational. Ammonia removal must be at least 70% by weight. If both digesters are not in full operation during this period, additional performance tests will be required within 180 days of their commencement of operation. This performance test must be conducted under maximum throughput and at surrogate parameters described in this permit. Additional testing shall be conducted at the discretion of the Department.

Parameter Monitored: AMMONIA

Lower Permit Limit: 70 percent reduction by weight

Reference Test Method: NIOSH Method 6701

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 5: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable Federal Requirement: 6 NYCRR 212-2.4 (b)

Item 5.1:

The Compliance Demonstration activity will be performed for the facility:
 The Compliance Demonstration applies to:

Emission Unit: 1-00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 5.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions from any process emission source for which an application was received by the department after July 1, 1973 are restricted as follows:

No facility owner or operator shall cause or allow emissions of particulate that exceed 0.050 grains per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis, except in instances where determination of permissible emission rate using process weight for a specific source category emitting solid particulate is based upon Table 5 and Table 6 of Subdivisions 212-2.5(a) and (b) of this Part.

As per 212-1.7(a) 'Sampling and monitoring' section, facility owners and/or operators of a process emission source required by the department to demonstrate

compliance with this Part may be required to conduct capture efficiency and/or stack emissions testing using acceptable and approved procedures pursuant to Part 202 of this Title using EPA Test Reference Method 5.

Parameter Monitored: PM-10

Upper Permit Limit: 0.050 grains per dscf

Reference Test Method: USEPA Reference Test Method 5

Monitoring Frequency: Once every five years

Averaging Method: Arithmetic average of stack test runs

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

****** Emission Unit Level ******

Condition 6: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable Federal Requirement: 6 NYCRR 212-1.6 (a)

Item 6.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00001

Item 6.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. The Department reserves the right to perform or require the performance of an EPA Reference Test Method 9 opacity evaluation at any time during facility operation.

The facility owner or operator shall conduct a visible emissions observation of all emission points specified by this condition once per day while the process is in operation. The facility owner or operator will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard specified below.

The facility owner or operator shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the limit specified (except the emission of uncombined water) are observed for three consecutive operating days from the

same emission point, the facility owner or operator will notify the Department of the observations within one business day. The facility owner or operator will also perform an EPA Reference Test Method 9 opacity evaluation analysis of the affected emission point and submit the results to the Department.

Daily records of the visible emissions observations, any follow-up Method 9 observations, investigations, and corrective actions taken are to be maintained on site for a period of at least five years from the date of the record. Such records shall include the date and time of each observation, weather conditions, results of the observation, corrective actions taken, and explanations for days when weather conditions were prohibitive.

All records kept pursuant to this condition must be provided to the Department upon request.

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: EPA Reference Test Method 9
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2024.
Subsequent reports are due every 12 calendar month(s).

STATE ONLY ENFORCEABLE CONDITIONS

**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined in 6 NYCRR subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) an emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;

(2) the equipment at the facility was being properly operated and maintained;

(3) during the period of the emergency the facility owner or operator took all reasonable steps to minimize the levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) the facility owner or operator notified the department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.

(b) In any enforcement proceeding, the facility owner or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or malfunction provision contained in any applicable requirement.

Item B: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)

Where facility owners and/or operators keep records pursuant to compliance with the requirements of 6 NYCRR Subpart 201-5.4, and/or the emission capping requirements of 6 NYCRR Subpart 201-7, the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Facility owners and/or operators must submit the records required to comply with the request within sixty working

days of written notification by the Department.

Item C: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.

Condition 7: Contaminant List
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement: ECL 19-0301

Item 7.1:

Emissions of the following contaminants are subject to contaminant specific requirements in this permit (emission limits, control requirements or compliance monitoring conditions).

CAS No: 007664-41-7
Name: AMMONIA

CAS No: 007782-50-5
Name: CHLORINE

CAS No: 0NY075-00-0
Name: PARTICULATES

CAS No: 0NY500-00-0
Name: TOTAL REDUCED SULFUR

CAS No: 0NY998-00-0
Name: VOC

Condition 8: Malfunctions and Start-up/Shutdown Activities
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 201-1.4

Item 8.1:

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment maintenance and start-up/shutdown activities when they are expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when required by a permit condition or upon request by the department. Such reports shall state whether an exceedance occurred and if it was unavoidable, include the time, frequency and duration of the exceedance, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous monitoring and quarterly reporting requirements need not submit additional reports of exceedances to the department.

(c) In the event that air contaminant emissions exceed any applicable emission standard due to a malfunction, the facility owner or operator shall notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. In addition, the facility owner or operator shall compile and maintain a record of all malfunctions. Such records shall be maintained at the facility for a period of at least five years and must be made available to the department upon request. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, the air contaminants emitted, and the resulting emission rates and/or opacity.

(d) The department may also require the facility owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

Condition 9: Emission Unit Definition
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 9.1:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-00001

Emission Unit Description:

This unit consists of Alkaline Stabilization (AST). The quantity of the biosolids that is either digested or undigested varies from day to day. Based on present physical constraints the maximum capacities are: 8 dtpd (40 wtpd) for the Alkaline Stabilization process and 28 dtpd for composting. This discharges to the stack that also ventilates the Alkaline Stabilization process/storage building.

Building(s): NVIROB

Condition 10: Renewal deadlines for state facility permits
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 201-5.2 (c)

Item 10.1:

The owner or operator of a facility having an issued state facility permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

Condition 11: CLCPA Applicability
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 201-5.3 (c)

Item 11.1:

Pursuant to The New York State Climate Leadership and Community Protection Act (CLCPA) and Article 75 of the Environmental Conservation Law, emission sources shall comply with regulations to be promulgated by the Department to ensure that by 2030 statewide greenhouse gas emissions are reduced by 40% of 1990 levels, and by 2050 statewide greenhouse gas emissions are reduced by 85% of 1990 levels.

Condition 12: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 201-5.3 (c)

Item 12.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 12.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any reports or submissions required by this permit shall be submitted to the Regional Air Pollution Control Engineer (RAPCE) at the following address:

Division of Air Resources
NYS Dept. of Environmental Conservation
Region 5

232 Golf Course Rd.
Warrensburg, NY 12885

Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2024.
Subsequent reports are due every 12 calendar month(s).

Condition 13: Air pollution prohibited
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 13.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

Condition 14: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 14.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 14.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator shall establish a complaint response plan to manage complaints related to air emissions from the facility. At a minimum, the plan shall include procedures to ensure that:

1. A complaint phone line is available 24 hours a day, 7 days a week.
2. Facility staff promptly investigate the possible causes of the complaint and promptly take action to abate any circumstances found to be the cause of the complaint.
3. The complaint, the results of investigation, and any corrective actions taken are recorded. Such records shall include the date, time, and staff person responsible.
4. Records are reported at a regular frequency acceptable to the Department.
5. Records are reported in a format acceptable to the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 15: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 15.1:

The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: 1-00001

Process: BIO

Emission Source: OCS-1

Item 15.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The permittee shall continuously monitor and record pH of scrubbing medium in stage 3 scrubber. The pH of the scrubbing medium shall not fall below 7.5 pH units. The monitoring of this surrogate will assist in demonstrating effective removal of acid, chlorine and chlorinated compounds. This surrogate may be modified pending stack tests results.

Parameter Monitored: ACIDITY/ALKALINITY

Lower Permit Limit: 7.5 pH (STANDARD) units

Monitoring Frequency: CONTINUOUS

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE AT ANY TIME

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 16: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 16.1:

The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: 1-00001

Process: BIO

Emission Source: OCS-1

Item 16.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The permittee shall continuously monitor and record pH of acid scrubbing medium in stage 1 scrubber. The pH of the scrubbing medium shall not exceed 5 pH units. The monitoring of this surrogate will assist in demonstrating effective removal of ammonia. This surrogate may be modified pending stack test results.

Parameter Monitored: ACIDITY/ALKALINITY
 Upper Permit Limit: 5 pH (STANDARD) units
 Monitoring Frequency: CONTINUOUS
 Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)
 Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 17: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 17.1:

The Compliance Demonstration activity will be performed for the facility:
 The Compliance Demonstration applies to:

Emission Unit: 1-00001

Process: BIO

Emission Source: OCS-1

Item 17.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The permittee shall continuously monitor and record oxidation reduction potential (ORP) of scrubbing medium in stage 2 scrubber. The ORP of the scrubbing medium shall not fall below .850 volts at any time. The monitoring of this surrogate will assist in demonstrating effective removal of dimethyl disulfide and other odorous organic compounds. This surrogate may be modified pending stack tests results.

Parameter Monitored: VOLTAGE
 Lower Permit Limit: 0.850 volts
 Monitoring Frequency: CONTINUOUS
 Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE AT ANY TIME
 Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 18: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 18.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: 1-00001

Process: BIO

Emission Source: OCS-1

Item 18.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The permittee must continuously monitor and record scrubber air flow rate. The flow is not to exceed 40,000 cfm at any time. The monitoring of this surrogate will assist in demonstrating continuous compliance while remaining within design specifications.

Parameter Monitored: AIR FLOW

Upper Permit Limit: 40000 cubic feet per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 19: Compliance Demonstration

Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 19.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: 1-00001

Process: BIO

Emission Unit: 1-00001

Process: NVR

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 19.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The Permittee shall maintain a 98% minimum capture efficiency of odors from processed or unprocessed biosolids and product in the operations building and exhaust them through EP 00001. Capture efficiency shall be determined by E.P.A. method 204. Capture efficiency shall be verified within 30 days upon startup and as required upon the Departments request.

Lower Permit Limit: 98 percent

Reference Test Method: 204

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 20: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 20.1:

The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: 1-00001

Process: BIO

Emission Source: OCS-1

Item 20.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Permittee shall continuously monitor and record the acid waste recirculation rate located in the process air pipe prior to stage 1 scrubber. The recirculation rate shall not fall below 67 gpm at any time. The monitoring of this surrogate will assist in demonstrating the effective removal of ammonia as well as particulates and cooling of exhaust gasses. This surrogate may be modified pending stack tests results.

Parameter Monitored: RECIRCULATION RATE

Lower Permit Limit: 67 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE AT ANY TIME

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 21: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 21.1:

The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: 1-00001

Process: BIO

Emission Source: OCS-1

Item 21.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The permittee shall continuously monitor and record stage 3 scrubber recirculation rate. The recirculation rate shall not fall below 60 gpm at any time. The monitoring of this surrogate will assist in demonstrating the effective removal of acid, chlorine and chlorinated compounds. This surrogate may be modified pending stack tests results.

Parameter Monitored: RECIRCULATION RATE

Lower Permit Limit: 60 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED
VALUE AT ANY TIME

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 22: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 22.1:

The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: 1-00001

Process: BIO

Emission Source: OCS-1

Item 22.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The permittee shall continuously monitor and record scrubber stage 1 recirculation rate. The recirculation rate shall not fall below 200 gpm at any time. The monitoring of this surrogate will assist in demonstrating the effective removal of ammonia. This surrogate may be modified pending stack tests results.

Parameter Monitored: RECIRCULATION RATE

Lower Permit Limit: 200 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED
VALUE AT ANY TIME

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 23: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 23.1:

The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: 1-00001

Process: BIO

Emission Source: OCS-1

Item 23.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The permittee shall continuously monitor and record pH of scrubbing medium in stage 2 scrubber. The pH of the scrubbing medium shall remain between 5.50 and 7.50 at all times. The monitoring of this surrogate will assist in demonstrating effective removal of dimethdisulfide and other odorous organic compounds. This surrogate may be modified pending stack tests results.

Parameter Monitored: ACIDITY/ALKALINITY

Lower Permit Limit: 5.50 pH (STANDARD) units

Upper Permit Limit: 7.50 pH (STANDARD) units

Monitoring Frequency: CONTINUOUS

Averaging Method: RANGE - NOT TO FALL OUTSIDE OF STATED
RANGE AT ANY TIME

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 24: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 24.1:

The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: 1-00001

Item 24.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee shall continuously monitor and record operational status (on/off) of the large dispersion fan (rated 400,000 cfm). The dispersion fan will be operational if processed or unprocessed biosolids and/or product are in any of the buildings on site. Records will be kept and maintained on site for three years and records will be available to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 25: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 25.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 25.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owner/operator shall establish a complaint response procedure to manage complaints related to air emissions from this facility. The procedure shall be designed to ensure that complaints from officials and/or neighbors are adequately received and documented, and that appropriate response is taken by the owner/operator. At a minimum, the owner/operator must:

1. Have a complaint phone line available 24 hours a day, 7 days a week. The number should be clearly published in but not limited to the area's phonebooks, on the city's website, and in the local legal notices publicizing the intent to begin operations.
2. Provide rapid investigation (not more than 1 business day) of any possible causes of any complaint received.
3. Take prompt action to abate the circumstances found to be the cause of the complaint.
4. Fully document the complaint, results of investigation, and any action taken.

Documentation shall include but is not limited to the following.

- Date complaint received
- Name of investigator
- Location of impacts
- Date and time of impacts.
- Complainant's name, phone number, address
- Nature of complaint
- If the odor was detected and a description of the odor at the complainant's location
- Operational variables at the facility
- Project Manager Notification and action Taken.

5. Report in a format acceptable to the Department.
6. Maintain complaint documentation for a period of five years and make them available to representatives of the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 26: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 26.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 26.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Upon request by the Department; the owner or operator shall conduct an odor study and implement measures that effectively bring odor impacts from the facility within acceptable levels. The study shall be performed pursuant to a Department approved protocol.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 27: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 27.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: 1-00001
Process: BIO

Emission Unit: 1-00001
Process: NVR

Item 27.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee shall continuously monitor and record operational status (on/off) of the scrubber fan (rated 40,000 cfm). The scrubber fan will be operational if processed biosolids, or unprocessed biosolids are in any of the following; Digester No. 1, Digester No. 2, Receiving bins, Operations building (including basement), and/or the conveyor system. Records will be kept and maintained on site for three years and records will be available to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 28: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 28.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 28.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The emission of odor-causing compound(s) (e.g, TRS, etc.) from the uncontrolled sources shall have an odor intensity of less than 5 dilutions to threshold (D/T) based on a short-term peak value of 5 minutes or less at any off-site receptor. At the discretion of the Department, the facility shall conduct a performance test and air modeling (using a protocol approved by the Department) of Alkaline stabilized product storage piles. Emissions shall be modeled at full storage capacity to demonstrate compliance with short-term intensity of no greater than 5 D/T.

Within 60 days of beginning compost production, the facility will conduct a performance test and modeling to demonstrate compliance as described above.

Further performance tests shall be conducted at the discretion of the Department.

Compliance with this odor limit does not relieve the permittee from compliance with 6 NYCRR, Section 211.2 on a continuous basis.

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 5 dilutions to threshold

Reference Test Method: ASTM Method E679-04

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 29: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 29.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 29.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Upon request by the Department; the owner or operator shall conduct an odor study and implement measures that effectively bring odor impacts from the facility within acceptable levels. The study shall be performed pursuant to a Department approved protocol.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 30: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 30.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 30.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee shall continuously monitor and record operational status (on/off) of the scrubber fan (rated 40,000 cfm). The scrubber fan will be operational if processed biosolids, or unprocessed biosolids are in any of the following; Digester No. 1, Digester No. 2, Receiving bins, Operations building (including basement), and/or the conveyor system. Records will be kept and maintained on site for three years and records will be available to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 31: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 31.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 31.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permittee shall continuously monitor and record operational status (on/off) of the large dispersion fan (rated 400,000 cfm). The dispersion fan will be operational if processed or unprocessed biosolids and/or product are in any of the buildings on site. Records will be kept and maintained on site for three years and records will be available to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

****** Emission Unit Level ******

**Condition 32: Emission Point Definition By Emission Unit
Effective between the dates of 04/18/2023 and 04/17/2033**

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 32.1:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-00001

Emission Point: 00001

Height (ft.): 117 Diameter (in.): 168
NYTMN (km.): 4948.039 NYTME (km.): 619.529 Building: NVIROB

Emission Point: 00002

Height (ft.): 33 Diameter (in.): 34
NYTMN (km.): 4948.2 NYTME (km.): 619.5

**Condition 33: Process Definition By Emission Unit
Effective between the dates of 04/18/2023 and 04/17/2033**

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 33.1:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-00001

Process: BIO Source Classification Code: 5-01-007-99

Process Description:

This process (BIO) consists of in-vessel composting of biosolids from municipal wastewater treatment plants. Composting is accomplished in two radially fed circular digesters (DIG-1 and DIG-2). Each digester has a maximum throughput of 14 dtpd. This process includes the odor control scrubber (OCS-1) used for treating emissions

during composting and from materials to be composted. Process emissions associated with screening (SCRN1), curing piles and EP 00002 are not scrubbed. Emissions from this process are subject to percent removals identified in 6 NYCRR, Section 212.9. Composting digesters will be operated in negative aeration mode if both units are operated simultaneously. When only one digester is operated, it can be operated in either positive or negative aeration mode.

Emission Source/Control: OCS-1 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DIG-1 - Process
Design Capacity: 14 tons per day

Emission Source/Control: DIG-2 - Process
Design Capacity: 14 tons per day

Emission Source/Control: SCRN1 - Process
Design Capacity: 7 cubic feet per minute

Emission Source/Control: STO-1 - Process

Item 33.2:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-00001

Process: NVR

Source Classification Code: 5-01-007-99

Process Description:

The Nviro process involves mixing of lime, lime-based materials and optionally fly ash with biosolids. The facility has a maximum capacity of 41 dtpd due to physical constraints (designated curing pile space of 3100 sq ft). Fine alkaline materials are uniformly mixed by mechanical mixing with dewatered sludge to raise the pH and temperature. The addition of alkaline material heats the biosolids via exothermic reactions. Sufficient alkaline material is added to raise the pH to >12 and to maintain temperatures => 52C (126F) throughout the sludge pile for =>12 hours. Then the sludge is shredded (optional) and placed in piles where the pH remains >12 for 3 more days. At the end of each of the three days, the piles are re-shredded (optional) to promote air drying to a solids content of => 50%. This process will be exhausted through a common emission point (dilution stack EP 00001) along with the BIO process.

Emission Source/Control: NVIRO - Process
Design Capacity: 40 tons per day

Item 33.3:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-00001

Process: REC Source Classification Code: 5-01-007-99
 Process Description:
 Sludge is tipped into a bunker inside the NVIRO building.

Emission Source/Control: SCRNI - Process
 Design Capacity: 7 cubic feet per minute

Condition 34: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 34.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00001	Emission Point: 00001
Regulated Contaminant(s):	
CAS No: 007664-41-7	AMMONIA
CAS No: 0NY998-00-0	VOC
CAS No: 0NY500-00-0	TOTAL REDUCED SULFUR

Item 34.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The permittee shall conduct performance tests to determine stack odor intensity (in units of dilution to threshold (D/T)) as detected by a panel of observers. The D/T in the stack must be no greater than 180 D/T at any time, based on a short-term peak value of 5 minutes or less. Performance tests shall be conducted within 180 days of start up of each source and/or any combination and with all sources in simultaneous operation. If all sources are tested simultaneously at full production prior to individually/combined testing, the individually/combined testing can be omitted. Performance testing shall be conducted under worst case conditions (e.g., while processing anaerobically digested sludge) at maximum throughput and at surrogate parameters described by this permit. If sources are not in full production within 180 days of start up, additional performance tests will be required within 180 days of obtaining full production. Additional testing shall be conducted at the discretion of the Department. Compliance with this odor limit does not relieve the permittee from compliance with 6 NYCRR, Section 211.2 on a continuous basis, nor does it relieve the permittee from compliance with applicable requirements of 6 NYCRR 200 and/or 212.

Parameter Monitored: CONCENTRATION
 Upper Permit Limit: 180 dilutions to threshold
 Reference Test Method: ASTM Method E679-04
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 35: Compliance Demonstration
Effective between the dates of 04/18/2023 and 04/17/2033

Applicable State Requirement:6 NYCRR 211.1

Item 35.1:
The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00001 Emission Point: 00001

Regulated Contaminant(s):
CAS No: 007782-50-5 CHLORINE

Item 35.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

A performance test for chlorine emissions shall be conducted within 180 days of start up of the scrubber (source OCS-1). Chlorine emissions shall not exceed 0.3 #/hr. This performance test must be conducted at maximum throughput of the digester at surrogate parameters described in this permit. Additional testing shall be conducted at the discretion of the Department.

Parameter Monitored: CHLORINE

Upper Permit Limit: 0.3 pounds per hour

Reference Test Method: Method 26A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

