



**PERMIT**  
**Under the Environmental Conservation Law (ECL)**

**IDENTIFICATION INFORMATION**

Permit Type: Air Title V Facility  
Permit ID: 2-6499-00029/00151  
Effective Date: 12/04/2012 Expiration Date: 12/03/2017

Permit Issued To: NYC DEPT OF SANITATION  
125 WORTH ST  
NEW YORK, NY 10013-4006

Contact: TED R NABAVI  
NYC DEPT OF SANITATION  
44 BEAVER ST 9TH FL  
NEW YORK, NY 10004  
(212) 437-4458

Facility: STATEN ISLAND LANDFILL  
1010 MULDOON AVE  
STATEN ISLAND, NY 10312

Contact: TED R NABAVI  
NYC DEPT OF SANITATION  
44 BEAVER ST 9TH FL  
NEW YORK, NY 10004  
(212) 437-4458

Description:

**PERMIT DESCRIPTION**  
**Staten Island Landfill**  
**DEC ID #2-6499-00029/00151 (Ren 2, Mod 0)**

This facility is a municipal solid waste landfill operated by the New York City Department of Sanitation (DSNY). The landfill occupies approximately 2,200 acres along the Fresh Kills estuary on Staten Island. Closed in December 2001, it continues to generate methane containing landfill gas (LFG) from the anaerobic degradation of solid waste. There are six (6) LFG flares operating at the landfill and each flare has a design capacity of 5,000 scfm. In addition to the flares, there is an existing LFG processing facility consisting of the Selexol LFG recovery plant. The flares are operated in conjunction with the LFG processing facility to control LFG emissions.

In addition to the closed landfill, the facility also consists of two (2) landfill leachate treatment plants, three (3) landfill vehicle maintenance and repair garages, a rock crushing and screening operation, a yard waste composting facility, and two (2) refueling stations for landfill vehicles.

The two (2) landfill leachate treatment plants are adjacent to each other and the plants have a combined operating capacity of 1,050,000 gallons per day. Landfill leachate contains ammonia and low levels of volatile organic compounds. The leachate is treated using

**New York State Department of Environmental Conservation**  
**Facility DEC ID: 2649900029**



sequencing batch reactors, clarifiers, pH adjustment, and sand filters and is then discharged to a surface water at the landfill under a State Pollutant Discharge and Elimination System (SPDES) permit.

The three (3) garages are operated by DSNY and are equipped with boilers with ratings ranging from 2.8 to 10.5 MMBTU/hr. The boilers are fired by Number 2 fuel oil or natural gas. The garages also include machine shops, a forge shop, carpenter shops, and welding areas. Aboveground and underground storage tanks that range in size from 275 to 20,000 gallons are located at the landfill and contain gasoline, diesel fuel, Number 2 fuel oil, hydraulic oil, motor oil, antifreeze, and waste oil.

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:            JOHN F CRYAN  
    NYSDEC  
    47-40 21ST ST  
    LONG ISLAND CITY, NY 11101-5407

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.



**LIST OF CONDITIONS**

**DEC GENERAL CONDITIONS**

**General Provisions**

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

**Facility Level**

- Submission of application for permit modification or renewal -  
REGION 2 HEADQUARTERS



**DEC GENERAL CONDITIONS**

**\*\*\*\* General Provisions \*\*\*\***

**For the purpose of your Title V permit, the following section contains state-only enforceable terms and conditions.**

**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 expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for 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 2 HEADQUARTERS**  
**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 2 Headquarters  
Division of Environmental Permits  
1 Hunters Point Plaza, 4740 21st Street  
Long Island City, NY 11101-5407  
(718) 482-4997





## LIST OF CONDITIONS

### FEDERALLY ENFORCEABLE CONDITIONS

#### Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6 NYCRR 201-6.5 (a) (7): Fees
- 3 6 NYCRR 201-6.5 (c): Recordkeeping and reporting of compliance monitoring
- 4 6 NYCRR 201-6.5 (c) (2): Monitoring, Related Recordkeeping, and Reporting Requirements.
- 5 6 NYCRR 201-6.5 (c) (3) (ii): Compliance Certification
- 6 6 NYCRR 201-6.5 (e): Compliance Certification
- 7 6 NYCRR 202-2.1: Compliance Certification
- 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 9 6 NYCRR 215.2: Open Fires - Prohibitions
- 10 6 NYCRR 200.7: Maintenance of Equipment
- 11 6 NYCRR 201-1.7: Recycling and Salvage
- 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 15 6 NYCRR 201-6.5 (a) (4): Standard Requirement - Provide Information
- 16 6 NYCRR 201-6.5 (a) (8): General Condition - Right to Inspect
- 17 6 NYCRR 201-6.5 (d) (5): Standard Requirements - Progress Reports
- 18 6 NYCRR 201-6.5 (f) (6): Off Permit Changes
- 19 6 NYCRR 202-1.1: Required Emissions Tests
- 20 40 CFR Part 68: Accidental release provisions.
- 21 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 22 6 NYCRR Subpart 201-6: Emission Unit Definition
- 23 6 NYCRR 208.3 (b) (2) (v): Active Collection System - Removal
- 24 6 NYCRR 208.4 (a): Collection system for waste-in-place for 2 or 5 years
- 25 6 NYCRR 208.4 (b): Compliance Certification
- 26 6 NYCRR 208.4 (c): Compliance Certification
- 27 6 NYCRR 208.4 (c): Compliance Certification
- 28 6 NYCRR 208.4 (c): Compliance Certification
- 29 6 NYCRR 208.4 (d): Compliance Certification
- 30 6 NYCRR 208.4 (e): Vent Collected Gas to Control System
- 31 6 NYCRR 208.4 (f): Control System
- 32 6 NYCRR 208.4 (g): Corrective Action
- 33 6 NYCRR 208.5 (b): System NMOC Emission Rate
- 34 6 NYCRR 208.6 (c) (4) (v): Compliance Certification
- 35 6 NYCRR 208.7 (a): Compliance Certification
- 36 6 NYCRR 208.7 (b): Monitoring of Operations - Enclosed Combustor
- 37 6 NYCRR 208.8 (f): Compliance Certification
- 38 6 NYCRR 208.8 (g): Reporting Requirements
- 39 6 NYCRR 208.9 (a): Compliance Certification
- 40 6 NYCRR 208.9 (b): Compliance Certification
- 41 6 NYCRR 208.9 (c): Compliance Certification
- 42 6 NYCRR 208.9 (d): Compliance Certification
- 43 6 NYCRR 208.9 (e): Compliance Certification



- 44 6 NYCRR 208.10: Section 1/9 and WTC Material
- 45 6 NYCRR 208.10 (a) (3) (ii): Muldoon Avenue Mound
- 46 6 NYCRR 208.10 (a) (3) (ii): Compliance Certification
- 47 6 NYCRR 211.1: Air pollution prohibited
- 48 6 NYCRR Part 212: Compliance Certification
- 49 6 NYCRR Part 212: Compliance Certification
- 50 6 NYCRR Subpart 231-2: Compliance Certification
- 51 6 NYCRR Subpart 231-2: Compliance Certification
- 52 6 NYCRR Subpart 231-2: Compliance Certification
- 53 6 NYCRR Subpart 231-2: Compliance Certification
- 54 6 NYCRR Subpart 231-2: Compliance Certification
- 55 6 NYCRR 231-2.4: Emission offset requirements - CO ERCs
- 56 6 NYCRR 231-2.4: Emission offset requirements - NOx ERCs
- 57 40CFR 52.21, Subpart A: Compliance Certification
- 58 40CFR 52.21, Subpart A: Compliance Certification
- 59 40CFR 52.21, Subpart A: Compliance Certification

**Emission Unit Level**

- 60 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 61 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

**EU=U-00003**

- 62 6 NYCRR 208.3 (b) (2) (iii) ('b'): Compliance Certification
- 63 6 NYCRR 208.3 (b) (2) (iii) ('b'): Compliance Certification
- 64 6 NYCRR 208.6 (c): Compliance Certification
- 65 6 NYCRR 208.6 (d): Compliance Certification
- 66 6 NYCRR Subpart 231-2: Compliance Certification
- 67 6 NYCRR Subpart 231-2: Compliance Certification
- 68 6 NYCRR Subpart 231-2: Compliance Certification
- 69 6 NYCRR Subpart 231-2: Compliance Certification

**EU=U-00003,Proc=A31**

- 70 6 NYCRR 212.6 (a): Compliance Certification
- 71 6 NYCRR 212.10: Compliance Certification
- 72 6 NYCRR 212.10: Compliance Certification

**EU=U-00004,Proc=A41**

- 73 6 NYCRR Subpart 231-2: Compliance Certification
- 74 6 NYCRR Subpart 231-2: Compliance Certification
- 75 6 NYCRR Subpart 231-2: Compliance Certification
- 76 6 NYCRR Subpart 231-2: Compliance Certification
- 77 6 NYCRR Subpart 231-2: Compliance Certification
- 78 6 NYCRR Subpart 231-2: Compliance Certification
- 79 40CFR 52.21, Subpart A: Compliance Certification
- 80 40CFR 52.21, Subpart A: Compliance Certification
- 81 40CFR 52.21, Subpart A: Compliance Certification
- 82 40CFR 52.21, Subpart A: Compliance Certification

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 83 ECL 19-0301: Contaminant List
- 84 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 85 6 NYCRR 211.2: Visible Emissions Limited



**Emission Unit Level**

**EU=U-00004,EP=P4001,Proc=A41,ES=S4001**

86 6 NYCRR 227-2.4 (f) (2): Compliance Demonstration

**EU=U-00004,EP=P4002,Proc=A41,ES=S4002**

87 6 NYCRR 227-2.4 (f) (2): Compliance Demonstration



**FEDERALLY ENFORCEABLE CONDITIONS**  
**\*\*\*\* Facility Level \*\*\*\***

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**  
**The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.**

**Item A: Emergency Defense - 6 NYCRR 201-1.5**

An emergency constitutes an affirmative defense to an action brought for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

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

- (1) An emergency occurred and that the facility owner and/or operator can identify the cause(s) of the emergency;
- (2) The equipment at the permitted facility causing the emergency was at the time being properly operated;
- (3) During the period of the emergency the facility owner and/or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
- (4) The facility owner and/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 corrective actions taken.

(b) In any enforcement proceeding, the facility owner and/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 upset provision contained in any applicable requirement.

**Item B: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10 (b)**

The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.



**Item C: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.3 (a) (4)**

Owners and/or operators of facilities having an issued Title V 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.

**Item D: Certification by a Responsible Official - 6 NYCRR 201-6.3 (d) (12)**

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

**Item E: Requirement to Comply With All Conditions - 6 NYCRR 201-6.5 (a) (2)**

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

**Item F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.5 (a) (3)**

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

**Item G: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.5 (a) (5)**

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

**Item H: Property Rights - 6 NYCRR 201-6.5 (a) (6)**

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



**Item I: Severability - 6 NYCRR 201-6.5 (a) (9)**

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

**Item J: Permit Shield - 6 NYCRR 201-6.5 (g)**

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

**Item K: Reopening for Cause - 6 NYCRR 201-6.5 (i)**

This Title V permit shall be reopened and revised under any of the following circumstances:

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is



three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.

ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.

iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

**Item L: 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 M: 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.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS  
SUBJECT TO ANNUAL CERTIFICATIONS AT ALL TIMES**

**The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements at all times.**

**Condition 1: Acceptable Ambient Air Quality**  
Effective between the dates of 12/04/2012 and 12/03/2017

**Applicable Federal Requirement: 6 NYCRR 200.6**

**Item 1.1:**  
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.

**Condition 2: Fees**  
Effective between the dates of 12/04/2012 and 12/03/2017

**Applicable Federal Requirement: 6 NYCRR 201-6.5 (a) (7)**

**Item 2.1:**  
The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0303.

**Condition 3: Recordkeeping and reporting of compliance monitoring**  
Effective between the dates of 12/04/2012 and 12/03/2017

**Applicable Federal Requirement: 6 NYCRR 201-6.5 (c)**

**Item 3.1:**



The following information must be included in any required compliance monitoring records and reports:

- (i) The date, place, and time of sampling or measurements;
- (ii) The date(s) analyses were performed;
- (iii) The company or entity that performed the analyses;
- (iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;
- (v) The results of such analyses including quality assurance data where required; and
- (vi) The operating conditions as existing at the time of sampling or measurement.

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.3 of this Part 201.

**Condition 4: Monitoring, Related Recordkeeping, and Reporting Requirements.**

**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement: 6 NYCRR 201-6.5 (c) (2)**

**Item 4.1:**

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

**Condition 5: Compliance Certification**

**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement: 6 NYCRR 201-6.5 (c) (3) (ii)**

**Item 5.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 5.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To meet the requirements of this facility permit with respect to reporting, the permittee must:

Submit reports of any required monitoring at a minimum



frequency of every 6 months, based on a calendar year reporting schedule. These reports shall be submitted to the Department within 60 days after the end of a reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

- (1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
- (2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
- (3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.
- (4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A



written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.3(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets. Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.5(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 60 days after the reporting period.  
The initial report is due 5/30/2013.  
Subsequent reports are due every 6 calendar month(s).



**Condition 6: Compliance Certification**  
Effective between the dates of 12/04/2012 and 12/03/2017

**Applicable Federal Requirement: 6 NYCRR 201-6.5 (e)**

**Item 6.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 6.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Requirements for compliance certifications with terms and conditions contained in this facility permit include the following:

- i. Compliance certifications shall contain:
  - the identification of each term or condition of the permit that is the basis of the certification;
  - the compliance status;
  - whether compliance was continuous or intermittent;
  - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
  - such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions; and
  - such additional requirements as may be specified elsewhere in this permit related to compliance certification.
- ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.
- iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.
- iv. All compliance certifications shall be submitted to

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the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office). Please send annual compliance certifications to Chief of the Stationary Source Compliance Section, the Region 2 EPA representative for the Administrator, at the following address:

USEPA Region 2  
Air Compliance Branch  
290 Broadway  
New York, NY 10007-1866

The address for the RAPCE is as follows:

Hunters Point Plaza  
47-40 21st Street  
Long Island City, NY 11101-5407

The address for the BQA is as follows:

NYSDEC  
Bureau of Quality Assurance  
625 Broadway  
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 10/30/2013.  
Subsequent reports are due on the same day each year

**Condition 7: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 202-2.1**

**Item 7.1:**  
The Compliance Certification activity will be performed for the Facility.

**Item 7.2:**  
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

Emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year. Statements are to be mailed to: New York State Department of Environmental Conservation, Division of Air Resources, Bureau of Air Quality Planning, 625 Broadway, Albany NY 12233-3251



Monitoring Frequency: ANNUALLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due by April 15th for previous calendar year

**Condition 8: Recordkeeping requirements**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 202-2.5**

**Item 8.1:**

(a) The following records shall be maintained for at least five years:

- (1) a copy of each emission statement submitted to the department; and
- (2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

**Condition 9: Open Fires - Prohibitions**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 215.2**

**Item 9.1:**

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

**Item 9.2**

Per Section 215.3, burning in an open fire, provided it is not contrary to other law or regulation, will be allowed as follows:

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.
- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.
- (d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.
- (e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.
- (f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.
- (g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke



producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.

(h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.

(i) Prescribed burns performed according to Part 194 of this Title.

(j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.

(k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.

(l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS  
SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE**

**The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements only if effectuated during the reporting period.**

**[NOTE: The corresponding annual compliance certification for those conditions not effectuated during the reporting period shall be specified as "not applicable".]**

**Condition 10: Maintenance of Equipment  
Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 200.7**

**Item 10.1:**

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.

**Condition 11: Recycling and Salvage  
Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 201-1.7**

**Item 11.1:**

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 the ECL.



**Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air**

**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 201-1.8**

**Item 12.1:**

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.

**Condition 13: Exempt Sources - Proof of Eligibility**

**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 201-3.2 (a)**

**Item 13.1:**

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 this Subpart. 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 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.

**Condition 14: Trivial Sources - Proof of Eligibility**

**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 201-3.3 (a)**

**Item 14.1:**

The owner and/or operator of an emission source or unit that is listed as being trivial in this Part may be required to certify that it operates within the specific criteria described in this Subpart. 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 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.

**Condition 15: Standard Requirement - Provide Information**

**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 201-6.5 (a) (4)**

**Item 15.1:**

The owner and/or operator shall furnish to the department, within a reasonable time, any information that the department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the department copies of records







Carrollton, Md. 20785

**Condition 21: Recycling and Emissions Reduction**  
Effective between the dates of 12/04/2012 and 12/03/2017

**Applicable Federal Requirement:40CFR 82, Subpart F**

**Item 21.1:**

The permittee shall comply with all applicable provisions of 40 CFR Part 82.

**The following conditions are subject to annual compliance certification requirements for Title V permits only.**

**Condition 22: Emission Unit Definition**  
Effective between the dates of 12/04/2012 and 12/03/2017

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 22.1:**

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

Emission Unit: U-00001

Emission Unit Description:

Emission Unit U-00001 is the Veterans Avenue Leachate Treatment Plant (VALTP) with a design capacity of 150,000 gallons per day with associated Process A11. This process consists of treatment of landfill leachate by the following major unit processes:

- 1) influent flow distribution/holding
- 2) biological treatment using SBR
- 3) metals removal
- 4) sedimentation
- 5) filtration
- 6) pH neutralization.

Process A11 has the following associated Emission Points:  
P1001, P1002, P1003, P1004, P1005, P1006, P1007, P1008,  
P1009, P1010, P1011, P1012, P1013, P1014, P1015, P1016,  
P1017, P1018, P1019, P1020, P1021 and P1022.

The Veterans Avenue Leachate Treatment Plant consists of the following Emission Sources:

S1001 - Influent Tanks, concrete, covered, aerated  
(process)

S1002 - Sequencing Batch Reactors, concrete, covered,  
aerated (process)

S1003 - Sludge tanks (biological and metals)  
(process)



- S1004 - Decant Tank (process)
- S1005 - Process Room Vent (process)
- S1006 - pH Adjust Tank (process)
- S1007 - Sand Filters (process)
- S1008 - Effluent Holding Tank (process)
- S1009 - Leachate Recirculation (process)
- S1010 - Plant Exhaust (process)
- S1011 - Boiler for Building Heat (combustion)

Building(s): VALTP1  
VALTP1/2  
VALTP2

**Item 22.2:**

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

Emission Unit: U-00002

Emission Unit Description:

Emission Unit U-00002: The Fresh Kills Leachate Treatment Plant (FKLTP) with a design capacity of 900,000 gallons per day with associated Process A21. This process consists of treatment of landfill leachate by the following major unit processes:

- 1) influent flow distribution
- 2) biological treatment using SBR
- 3) metals removal
- 4) sedimentation
- 5) filtration
- 6) pH neutralization.

There are three parallel modular treatment trains in the FKLTP, each with a design capacity of 300,000 gallons per day, for a total design capacity of 900,000 gallons per day.

Process A21 has the following associated Emission Points: P2001, P2002, P2003, P2004, P2005, P2006, P2007, P2008, P2009, P2010, P2011, P2012, P2013, P2014, P2015, P2016, P2017, P2018, P2019, P2020, P2021, P2022, P2023, P2024, and P2025.

The Fresh Kills Leachate Treatment Plant (FKLTP) consists of the following Emission Sources:

- S2001 - Influent Tanks, concrete, covered, mixed, aerated (process)
- S2002 - Biological Sludge Tanks (process)
- S2003 - SBR, concrete, covered, aerated (process)
- S2004 - Metal Sludge Hold Tank, concrete (process)
- S2005 - Decant Tanks (process)
- S2006 - pH Adjust Tank, concrete (process)
- S2007 - Clarifiers (process)



S2008 - Sand Filters (process)  
S2009 - Effluent pH Adjust Box, concrete (process)  
S2010 - Chemical Storage (process)  
S2011 - Boiler for Building Heat (combustion)

Building(s): FKLTP1  
FKLTP1/2  
FKLTP2

**Item 22.3:**

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

Emission Unit: U-00003

Emission Unit Description:

Emission Unit U-00003 consists of six enclosed landfill gas flares with a design capacity of 5,000 scfm per flare (30,000 scfm total) in addition to fugitive landfill gas emissions from the landfill. The LFG flare facility is owned by DSNY.

Process A31 consists of six (6) enclosed flares installed to combust landfill gas (LFG). Three flare stations have been constructed. Each flare station is equipped with two LFG flares. The flare stations are located at sections 2/8, 3/4 and 6/7 of the landfill. Each flare station also includes compressor/blower pumps and condensate knockout tanks. Each flare has a maximum design capacity for combusting LFG flows up to 5,000 standard cubic feet per minute (scfm). Process A31 has the following associated Emission Points: P3001, P3002, P3003, P3004, P3005 and P3006. The landfill gas is identified as Emission Source S3007 with associated Processes A31 and A32.

Emissions from Process A32 consist of the fugitive landfill gas emissions (emission Source S3007) from the landfill sections that are not captured by the landfill gas collection system.

The six landfill gas flares consist of the following Emission Controls:

S3001 - 5,000 cubic feet per minute John Zink Company vapor recovery unit flaring (control)  
S3002 - 5,000 cubic feet per minute John Zink Company vapor recovery unit flaring (control)  
S3003 - 5,000 cubic feet per minute John Zink Company vapor recovery unit flaring (control)  
S3004 - 5,000 cubic feet per minute John Zink Company vapor recovery unit flaring (control)  
S3005 - 5,000 cubic feet per minute John Zink Company vapor recovery unit flaring (control)  
S3006 - 5,000 cubic feet per minute John Zink Company vapor recovery unit flaring (control)  
S3007 - Landfill (process)



**Item 22.4:**

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

Emission Unit: U-00004

Emission Unit Description:

This emission unit includes the existing landfill gas processing Plant #1 (Selexol process) with associated Process A41.

Process A41 consists of the Selexol landfill gas (LFG) recovery plant (Plant 1). LFG is processed to remove moisture, hydrogen sulfide and organic sulfur compounds, carbon dioxide and non-methane organic compounds. Plant 1 includes two (2) lean burn internal combustion compressor engines that are fired by processed LFG and a thermal oxidizer used to combust waste gases from the LFG recovery process. Process A41 has the following associated Emission Points: P4001, P4002, P4003 - LFGPLANT1 Building.

The existing landfill gas processing Plant #1 (Selexol process) consists of the following Emission Sources/Control:

S4001 - 1500 horsepower - mechanical (combustion)  
S4002 - 1500 horsepower - mechanical (combustion)  
S4003 - 40.05 MM Btu/hr Direct Flame Afterburner (control)  
S4004 - Fugitive Emissions Equipment (process)

Building(s): LFGPLANT1

**Condition 23: Active Collection System - Removal**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 208.3 (b) (2) (v)**

**Item 23.1:**

The collection and control system may be capped or removed provided that all of the following conditions are met:

- the landfill will no longer accept solid waste and be permanently closed under the requirements of Part 360;
- the collection and control system must have been in operation a minimum of 15 years; and
- the calculated NMOC emission rate must be less than 50 megagrams per year on three successive test dates. The test dates must be no less than 90 days apart and no more than 180 days apart.

**Condition 24: Collection system for waste-in-place for 2 or 5 years**  
**Effective between the dates of 12/04/2012 and 12/03/2017**



**Applicable Federal Requirement:6 NYCRR 208.4 (a)**

**Item 24.1:**

The owner or operator of this landfill gas collection system will operate the collection system such that gas is collected from each area, cell or group of cells in the landfill in which solid waste has been in place for 5 years or more if active or 2 years or more if inactive

**Condition 25: Compliance Certification  
Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 208.4 (b)**

**Item 25.1:**

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

Emission Unit: U-00003

**Item 25.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

The collection system shall be operated with a negative pressure at each wellhead, except under the following conditions:

1. A fire or increased well temperature. The owner or operator shall record instances when positive pressure occurs in efforts to avoid a fire. These records shall be submitted with the annual reports as provided in 6 NYCRR Part 208.8.
2. The use of a geomembrane or synthetic cover. The owner or operator shall develop acceptable pressure limits in the design plan.
3. A decommissioned well. A well may experience a static positive pressure after shut down to accommodate for declining flows. All design changes shall be approved by the Department.

If monitoring demonstrates that the operational requirements are not met, corrective action shall be taken as specified in 6 NYCRR Part 208.6(a)(3) through (5). If corrective actions are taken as specified in 6 NYCRR Part 208.6, the monitored exceedance is not a violation of the operational requirements in this section, however the permittee shall report these episodes as deviations.

Work Practice Type: PARAMETER OF PROCESS MATERIAL



Process Material: LANDFILL GAS  
Parameter Monitored: PRESSURE  
Upper Permit Limit: 0 pounds per cubic inch  
Monitoring Frequency: MONTHLY  
Averaging Method: 1 HOUR MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2013.  
Subsequent reports are due every 6 calendar month(s).

**Condition 26: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement: 6 NYCRR 208.4 (c)**

**Item 26.1:**

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

Emission Unit: U-00003

**Item 26.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Each interior wellhead in the collection system shall be operated with a nitrogen level in the landfill gas less than 20%. The owner or operator may establish a higher operating nitrogen level at a particular well. A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens.

If monitoring demonstrates that the operational requirements are not met, corrective action shall be taken as specified in 6 NYCRR Part 208.6(a)(3) through (5). If corrective actions are taken as specified in 6 NYCRR Part 208.6, the monitored exceedance is not a violation of the operational requirements in this section, however the permittee shall report these episodes as deviations.

Work Practice Type: PARAMETER OF PROCESS MATERIAL  
Process Material: LANDFILL GAS  
Parameter Monitored: NITROGEN CONTENT  
Upper Permit Limit: 20 percent  
Monitoring Frequency: MONTHLY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.



The initial report is due 4/30/2013.  
Subsequent reports are due every 6 calendar month(s).

**Condition 27: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 208.4 (c)**

**Item 27.1:**

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

Emission Unit: U-00003

**Item 27.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

Each interior wellhead in the collection system shall be operated with an oxygen level in the landfill gas less than 5%. The owner or operator may establish a higher operating oxygen level at a particular well. A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens.

If monitoring demonstrates that the operational requirements are not met, corrective action shall be taken as specified in 6 NYCRR Part 208.6(a)(3) through (5). If corrective actions are taken as specified in 6 NYCRR Part 208.6, the monitored exceedance is not a violation of the operational requirements in this section, however the permittee shall report these episodes as deviations.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: LANDFILL GAS

Parameter Monitored: OXYGEN CONTENT

Upper Permit Limit: 5 percent

Monitoring Frequency: MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2013.

Subsequent reports are due every 6 calendar month(s).

**Condition 28: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 208.4 (c)**

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**Item 28.1:**

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

Emission Unit: U-00003

**Item 28.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Operate each interior wellhead in the collection system with a landfill gas temperature less than 55 degrees centigrade. The owner or operator may establish a higher operating temperature at a particular well. A higher operating value demonstration shall show supporting data that the elevated parameter does not cause fires or significantly inhibit anaerobic decomposition by killing methanogens.

If monitoring demonstrates that the operational requirements are not met, corrective action shall be taken as specified in 6 NYCRR Part 208.6(a)(3) through (5). If corrective actions are taken as specified in 6 NYCRR Part 208.6, the monitored exceedance is not a violation of the operational requirements in this section, however the permittee shall report these episodes as deviations.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: LANDFILL GAS

Parameter Monitored: TEMPERATURE

Upper Permit Limit: 55 degrees Centigrade (or Celsius)

Monitoring Frequency: MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2013.

Subsequent reports are due every 6 calendar month(s).

**Condition 29: Compliance Certification**

**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement: 6 NYCRR 208.4 (d)**

**Item 29.1:**

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

Emission Unit: U-00003

**Item 29.2:**

Compliance Certification shall include the following monitoring:



Monitoring Type: AMBIENT AIR MONITORING

Monitoring Description:

The collection system will be operated so that the methane concentration is less than 500 ppm above background on the surface of the landfill. The owner or operator will conduct surface testing around the perimeter of the collection area along a pattern that traverses the landfill at 30 meter intervals and where visual observations indicate elevated concentrations of landfill gas, such as distressed vegetation and cracks or seeps in the cover. Areas with steep slopes or other dangerous areas may be excluded from the surface testing. A surface monitoring design plan will be developed that includes a topographical map with the monitoring route. This plan will be submitted to the Department for review and approval within 60 days of the issuance of this permit.

If monitoring demonstrates that the operational requirements are not met, corrective action shall be taken as specified in 6 NYCRR Part 208.6(c). If corrective actions are taken as specified in 6 NYCRR Part 208.6(c)(4), the monitored exceedance is not a violation of the operational requirements in this section, however the permittee shall report these episodes as deviations.

Parameter Monitored: METHANE

Upper Permit Limit: 500 parts per million (by volume)

Monitoring Frequency: QUARTERLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2013.

Subsequent reports are due every 6 calendar month(s).

**Condition 30: Vent Collected Gas to Control System**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement: 6 NYCRR 208.4 (e)**

**Item 30.1:**

This Condition applies to:

Emission Unit: U00003

**Item 30.2:**

Operate the system such that all collected gases are vented to a control system designed and operated in compliance with 6 NYCRR Part 208.3(b)(2)(iii). In the event the collection or control system is inoperable, the gas mover system will be shut down and all valves in the collection and control system contributing to venting of the gas to the atmosphere will be closed within one hour.



**Condition 31: Control System**  
Effective between the dates of 12/04/2012 and 12/03/2017

**Applicable Federal Requirement:6 NYCRR 208.4 (f)**

**Item 31.1:**  
This Condition applies to:

Emission Unit: U00003

**Item 31.2:**  
Operate the control or treatment system at all times when the collected gas is routed to the system.

**Condition 32: Corrective Action**  
Effective between the dates of 12/04/2012 and 12/03/2017

**Applicable Federal Requirement:6 NYCRR 208.4 (g)**

**Item 32.1:**  
If monitoring demonstrates that the operational requirements in 6 NYCRR Part 208.4(b), (c) or (d) are not met, corrective action will be taken as specified in 6 NYCRR Part 208.6(a)(3)-(5). If corrective actions are taken as specified in 6 NYCRR Part 208.6, the monitored exceedance is not a violation of the operational requirements.

**Condition 33: System NMOC Emission Rate**  
Effective between the dates of 12/04/2012 and 12/03/2017

**Applicable Federal Requirement:6 NYCRR 208.5 (b)**

**Item 33.1:**  
After installation of a collection and control system, the owner or operator will calculate the NMOC emission rate, for the purposes of determining when the system can be removed, using the following equation:

$MNMOC = 1.89 \times 10^{-3} (QLFG)(CNMOC)$ ; where MNMOC = mass emission rate of NMOC (megagrams/year), QLFG (the flow of landfill gas to the system) is determined by measuring the total landfill gas flow rate at the common header pipe that leads to the control device using a gas flow measuring device and the concentration of NMOC (CNMOC) is determined by collecting and analyzing landfill gas using the procedures in Method 25, 25C or Method 18 of Appendix A of 40 CFR Part 60. The system may be removed if the NMOC emission rate drops below 50 megagrams per year.

**Condition 34: Compliance Certification**  
Effective between the dates of 12/04/2012 and 12/03/2017

**Applicable Federal Requirement:6 NYCRR 208.6 (c) (4) (v)**

**Item 34.1:**  
The Compliance Certification activity will be performed for the Facility.



**Item 34.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For any location where monitored methane concentration equals or exceeds 500 parts per million above background three times within a quarterly period, a new well or other collection device shall be installed within 120 calendar days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes or control device, and a corresponding timeline for installation may be submitted to the Department for approval.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

Subsequent reports are due every 3 calendar month(s).

**Condition 35: Compliance Certification**

**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement: 6 NYCRR 208.7 (a)**

**Item 35.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 35.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Each owner or operator seeking to comply with 6 NYCRR Part 208.3(b)(2)(ii)(a) with an active gas collection system shall install a sampling port and a thermometer, other temperature measuring device, or an access port for temperature measurements at each wellhead and:

1. Measure the gauge pressure in the gas collection header, as provided in 6 NYCRR Part 208.6(a)(3); and
2. Monitor nitrogen or oxygen concentration in the landfill gas on a monthly basis as provided in 6 NYCRR Part 208.6(a)(5); and
3. Monitor temperature of the landfill gas on a monthly basis as provided in 6 NYCRR Part 208.6(a)(5).

Monitoring Frequency: MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)



Reports due 30 days after the reporting period.  
The initial report is due 4/30/2013.  
Subsequent reports are due every 6 calendar month(s).

**Condition 36: Monitoring of Operations - Enclosed Combustor**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 208.7 (b)**

**Item 36.1:**

If an enclosed combustor is used to control landfill gas at the facility, the owner or operator will calibrate, maintain and operate, according to the manufacturer's specifications, the following equipment:

1. A temperature monitoring device with a continuous recorder and having a minimum accuracy of  
+ 1% of the temperature being measured; and
2. A device the records flow to, or bypass of, the control device.

**Condition 37: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 208.8 (f)**

**Item 37.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 37.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Each owner or operator of a landfill seeking to comply with 6 NYCRR Part 208.3(b)(2) using an active collection system designed in accordance with 6 NYCRR Part 208.3(b)(2)(ii) shall submit to the Department annual reports of the recorded information in paragraphs (1) through (6) below. The initial annual report shall be submitted within 180 days of installation and start-up of the collection and control system, and shall include the initial performance test report required under 40 CFR Part 60.8. For enclosed combustion devices and flares, reportable exceedances are defined under 6 NYCRR Part 208.9(c).

- 1) Value and length of time for exceedance of applicable parameters monitored under 6 NYCRR Part 208.7(a), (b), (c) and (d).
- 2) Description and duration of all periods when the gas stream is diverted from the control device through a bypass line or the indication of bypass flow as specified under 6 NYCRR Part 208.7.



- 3) Description and duration of all periods when the control device was not operating for a period exceeding 1 hour and length of time the control device was not operating.
- 4) All periods when the collection system was not operating in excess of 5 days.
- 5) The location of each exceedance of the 500 parts per million methane concentration as provided in 6 NYCRR Part 208.4(c) and the concentration recorded at each location for which an exceedance was recorded in the previous month.
- 6) The date of installation and the location of each well or collection system expansion added pursuant to 6 NYCRR Part 208.6(a)(3), 208.6(b) and 208.6(c)(4).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2013.

Subsequent reports are due every 6 calendar month(s).

**Condition 38: Reporting Requirements**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement: 6 NYCRR 208.8 (g)**

**Item 38.1:**

Each owner or operator seeking to comply with 6 NYCRR Part 208.3(b)(2)(iii) shall include the following information with the initial performance test report required under 40 CFR Part 60.8:

- 1) A diagram of the collection system showing collection system positioning including all wells, horizontal collectors, surface collectors, or other gas extraction devices, including the locations of any areas excluded from collection and the proposed sites for the future collection system expansion;
- 2) The data upon which the sufficient density of wells, horizontal collectors, surface collectors, or other gas extraction devices and the gas mover equipment sizing are based;
- 3) The documentation of the presence of asbestos or nondegradable material for each area from which collection wells have been excluded based on the presence of asbestos or nondegradable material;
- 4) The sum of the gas generation flow rates for all areas from which collection wells have been excluded based on nonproductivity and the calculations of gas generation flow rate for each excluded area; and
- 5) The provisions for increasing gas mover equipment capacity with increased gas generation flow rate, if the present gas mover equipment is inadequate to move the maximum flow rate expected over the life of the landfill; and
- 6) The provisions for the control of off-site migration.



**Condition 39: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 208.9 (a)**

**Item 39.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 39.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except as provided in 6 NYCRR Part 208.3(b)(2)(i)(a), each owner or operator of an MSW landfill subject to the provisions of 6 NYCRR Part 208.3(b) shall keep for at least 7 years up-to-date, readily accessible, on-site records of the maximum design capacity report which triggered 6 NYCRR Part 208.3(b), the current amount of solid waste in-place, and the year-by-year waste acceptance rate. Off-site records may be maintained if they are retrievable within 4 hours. Either paper copy or electronic formats are acceptable.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2013.

Subsequent reports are due every 6 calendar month(s).

**Condition 40: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 208.9 (b)**

**Item 40.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 40.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except as provided in 6 NYCRR Part 208.3(b)(2)(i)(b), each owner or operator of a controlled landfill shall keep up-to-date, readily accessible records for the life of the control equipment of the data listed in paragraphs (1) and (2) below as measured during the initial performance test or compliance determination. Records of subsequent tests or monitoring shall be maintained for a minimum of 7 years. Records of the control device vendor specifications shall be maintained until removal.



- 1) Where an owner or operator seeks to demonstrate compliance with 6 NYCRR Part 208.3(b)(2)(ii):
  - i) The maximum expected gas generation flow rate as calculated in 6 NYCRR Part 208.6(a)(1) . The owner or operator may use another method to determine the maximum gas generation flow rate, if the method has been approved by the Department.
  - ii) The density of wells, horizontal collectors, surface collectors, or other gas extraction devices determined using the procedures specified in 6 NYCRR Part 208.10(a)(1)).
- 2) Where an owner or operator seeks to demonstrate compliance with 6 NYCRR Part 208.3(b)(2)(iii) through use of an open flare, the flare type (i.e., steam-assisted, air-assisted, or nonassisted), all visible emission readings, heat content determination, flow rate or bypass flow rate measurements, and exit velocity determinations made during the performance test as specified in 40 CFR Part 60.18; continuous records of the flare pilot flame, or presence of ignition spark if an electronic ignition system is used for the flare, or flare flame monitoring and records of all periods of operations during which the pilot flame of the flare flame is absent.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2013.  
Subsequent reports are due every 6 calendar month(s).

**Condition 41: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 208.9 (c)**

**Item 41.1:**  
The Compliance Certification activity will be performed for the Facility.

**Item 41.2:**  
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

Except as provided in 6 NYCRR Part 208.3(b)(2)(i)(b), each owner or operator of a controlled landfill shall keep for 7 years up-to-date, readily accessible continuous records of the equipment operating parameters specified to be monitored in 6 NYCRR Part 208.7) as well as up-to-date, readily accessible records for periods of operation during which the parameter boundaries



established during the most recent performance test are exceeded.

2) Each owner or operator shall keep up-to-date, readily accessible continuous records of the indication of flow to the control device or the indication of bypass flow or records of monthly inspections of car-seals or lock-and-key configurations used to seal bypass lines, specified under 6 NYCRR Part 208.7.

4) Each owner or operator seeking to comply by use of an open flare shall keep up-to-date, readily accessible continuous records of the flame or flare pilot flame monitoring, or the presence of ignition spark if an electronic ignition system is used, specified under 6 NYCRR Part 208.7(c), and up-to-date, readily accessible records of all periods of operation in which the flame or flare pilot flame is absent.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2013.  
Subsequent reports are due every 6 calendar month(s).

**Condition 42: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement: 6 NYCRR 208.9 (d)**

**Item 42.1:**  
The Compliance Certification activity will be performed for the Facility.

**Item 42.2:**  
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

Except as provided in 6 NYCRR Part 208.3(b)(2)(i)(b), each owner or operator shall keep for the life of the collection system an up-to-date, readily accessible plot map showing each existing and planned collector in the system and providing a unique identification location label for each collector.

1) Each owner or operator shall keep up-to-date, readily accessible records of the installation date and location of all newly installed collectors as specified under 6 NYCRR Part 208.6(b).

2) Each owner or operator shall keep readily accessible documentation of the nature, date of deposition, amount, and location of asbestos-containing or



nondegradable waste excluded from collection as provided in 6 NYCRR Part 208.10(a)(3)(i) as well as any nonproductive areas excluded from collection as provided in 6 NYCRR Part 208.10(a)(3)(ii).

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2013.  
Subsequent reports are due every 6 calendar month(s).

**Condition 43: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 208.9 (e)**

**Item 43.1:**  
The Compliance Certification activity will be performed for the Facility.

**Item 43.2:**  
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

Except as provided in 6 NYCRR Part 208.3(b)(2)(i)(b), each owner or operator shall keep for at least 7 years up-to-date, readily accessible records of all collection and control system exceedances of the operational standards in 6 NYCRR Part 208.4, the reading in the subsequent month whether or not the second reading is an exceedance, and the location of each exceedance.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2013.  
Subsequent reports are due every 6 calendar month(s).

**Condition 44: Section 1/9 and WTC Material**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 208.10**

**Item 44.1: Subsequent to the events of September 11, 2001, material recovered from the World Trade Center (WTC) site in New York City was placed at Section 1/9 of the landfill. Landfill gas extraction wells had previously been installed in this area. Because of the placement of WTC material, not-yet-installed extraction wells will not have to be installed in this area. Collection of landfill gas in this area will be accomplished with existing wells and wells installed around the area to maximize collection.**

**Condition 45: Muldoon Avenue Mound**  
**Effective between the dates of 12/04/2012 and 12/03/2017**



**Applicable Federal Requirement:6 NYCRR 208.10 (a) (3) (ii)**

**Item 45.1: The Muldoon Avenue Mound area of Section 1/9 will be excluded from the collection system for Section 1/9. This mound produces less than 1% of the total NMOC for this section.**

**Condition 46: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 208.10 (a) (3) (ii)**

**Item 46.1:**  
The Compliance Certification activity will be performed for the Facility.

**Item 46.2:**  
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

Any nonproductive area of the landfill may be excluded from control, provided that the total of all excluded areas can be shown to contribute less than one percent of the total amount of NMOC emissions from the landfill. The amount, location, and age of the material shall be documented and provided to the department upon request. A separate NMOC emissions estimate shall be made for each section proposed for exclusion, and the sum of all such sections shall be compared to the NMOC emissions estimate for the entire landfill. Emissions from each section shall be computed using the following equation:

$$Q_i = 2 k L_o M_i (e^{-kt_i}) \text{ CNMOC } (3.6 \times 10^{-9})$$

where,

$Q_i$  = NMOC emission rate from the  $i$  th section, megagrams per year

$k$  = methane generation rate constant, year  $-1$

$L_o$  = methane generation potential, cubic meters per megagram solid waste

$M_i$  = mass of the degradable solid waste in the  $i$  th section, megagram

$t_i$  = age of the solid waste in the  $i$  th section, years

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CNMOC = concentration of nonmethane organic compounds,  
parts per million by volume

$3.6 \times 10^{-9}$  = conversion factor

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2013.

Subsequent reports are due every 12 calendar month(s).

**Condition 47: Air pollution prohibited**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 211.1**

**Item 47.1:**

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 48: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR Part 212**

**Item 48.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000074-82-8      METHANE

**Item 48.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The total volume of gas collected from the landfill sections will be monitored and recorded daily and will not exceed 47,128,320 cubic feet per day.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: LANDFILL GAS

Parameter Monitored: VOLUMETRIC FLOW RATE

Upper Permit Limit: 47,128,320 cubic feet per day

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Monitoring Frequency: CONTINUOUS  
Averaging Method: 24-HOUR AVERAGE  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2013.  
Subsequent reports are due every 6 calendar month(s).

**Condition 49: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR Part 212**

**Item 49.1:**

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

Emission Unit: U-00003

**Item 49.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

When the gas treatment plants are in operation, the volume of landfill gas directed to the flares shall not exceed 19,284,000 standard cubic feet per day, unless in doing so the total landfill gas processed and combusted does not exceed 47,128,320 standard cubic feet per day. The applicant shall install, maintain and operate gas flow meters at the flares and the gas treatment facility. The applicant shall take daily readings of the landfill gas sent to the flares and the gas treatment facility.

Process Material: LANDFILL GAS  
Parameter Monitored: VOLUMETRIC FLOW RATE  
Upper Permit Limit: 19,284,000 cubic feet per day  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 24-HOUR AVERAGE  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2013.  
Subsequent reports are due every 6 calendar month(s).

**Condition 50: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR Subpart 231-2**

**Item 50.1:**

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



Emission Unit: U-00003

Regulated Contaminant(s):  
CAS No: 000630-08-0 CARBON MONOXIDE

**Item 50.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

When the landfill gas treatment facilities are operating, the total emissions of carbon monoxide (CO) from the flares shall not exceed 610 tons per year or 139.3 pounds per hour. The emissions factor for this compound shall be established in a stack test. Emissions of this compound shall be calculated based on the established emissions factor and the flow of landfill gas.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 139.3 pounds per hour

Reference Test Method: Method 10b

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR MAXIMUM - NOT TO BE EXCEEDED  
MORE THAN ONCE PER CALENDAR YEAR

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 51: Compliance Certification**

**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR Subpart 231-2**

**Item 51.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00003

Regulated Contaminant(s):  
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 51.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

When the landfill gas treatment facilities are operating, the total emissions of oxides of nitrogen (NOx) from the flares shall not exceed 300.7 tons per year or 68.7 pounds per hour. The emissions factor for this compound shall be established in a stack test. Emissions of this compound



shall be calculated based on the established emissions factor and the flow of landfill gas.

Work Practice Type: PARAMETER OF PROCESS MATERIAL  
Process Material: LANDFILL GAS  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 300.7 tons per year  
Reference Test Method: Method 7e  
Monitoring Frequency: DAILY  
Averaging Method: ANNUAL MAXIMUM ROLLED DAILY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2013.  
Subsequent reports are due every 6 calendar month(s).

**Condition 52: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement: 6 NYCRR Subpart 231-2**

**Item 52.1:**

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

Emission Unit: U-00003

Emission Unit: U-00004

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 52.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

When the landfill gas flares and gas treatment facilities are operating, the total emissions of oxides of nitrogen shall not exceed 381.8 tons per year. The emissions factor for this compound shall be established in an emissions stack test. The emissions of this compound shall be calculated based on this established emissions factor and the flow of landfill gas to the flares and the combination sources at the treatment plant. The combination of secondary (combustion) emissions from the landfill gas collection, flaring system and gas recovery plants (Emission Units U-00003 and U-00004) at the Staten island Landfill, will not exceed the limits specified in the July 1998 Landfill Gas Collection and Flaring Systems permit (DEC Permit 2-6403-00011/00063).



Work Practice Type: PARAMETER OF PROCESS MATERIAL  
Process Material: LANDFILL GAS  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 381.8 tons per year  
Reference Test Method: Method 7e  
Monitoring Frequency: DAILY  
Averaging Method: ANNUAL MAXIMUM ROLLED DAILY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2013.  
Subsequent reports are due every 6 calendar month(s).

**Condition 53: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement: 6 NYCRR Subpart 231-2**

**Item 53.1:**

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

Emission Unit: U-00003

Emission Unit: U-00004

Regulated Contaminant(s):  
CAS No: 000630-08-0 CARBON MONOXIDE

**Item 53.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

When the landfill gas flares and gas treatment facilities are operating, the total emissions of carbon monoxide shall not exceed 773.2 tons per year. The emissions factor for this compound shall be established in an emissions stack test. The emissions of this compound shall be calculated based on this established emissions factor and the flow of landfill gas to the flares and the combination sources at the treatment plant.

Work Practice Type: PARAMETER OF PROCESS MATERIAL  
Process Material: LANDFILL GAS  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 773.2 tons per year  
Reference Test Method: Method 10b  
Monitoring Frequency: DAILY  
Averaging Method: ANNUAL MAXIMUM ROLLED DAILY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.

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The initial report is due 4/30/2013.  
Subsequent reports are due every 6 calendar month(s).

**Condition 54: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR Subpart 231-2**

**Item 54.1:**

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

Emission Unit: U-00003

Emission Unit: U-00004

Regulated Contaminant(s):

CAS No: 0NY998-20-0 NMOC - LANDFILL USE ONLY

**Item 54.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

The combination of secondary (combustion) emissions from the landfill gas collection, flaring system and gas recovery plants (Emission Units U-00003 and U-00004) at the Staten island Landfill, will not exceed the limits specified in the July 1998 Landfill Gas Collection and Flaring Systems permit (DEC Permit 2-6403-00011/00063). The emissions of non-methane organic compounds (NMOC) from the facility shall not exceed 45.5 tons per year. The emissions factor for this compound shall be established in an emissions stack test. Emissions of this compound shall be calculated based on the established emissions factor and the flow of landfill gas.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: LANDFILL GAS

Parameter Monitored: NMOC - LANDFILL USE ONLY

Upper Permit Limit: 45.5 tons per year

Reference Test Method: EPA Method 25 or 25a

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2013.

Subsequent reports are due every 6 calendar month(s).

**Condition 55: Emission offset requirements - CO ERCs**  
**Effective between the dates of 12/04/2012 and 12/03/2017**



**Applicable Federal Requirement:6 NYCRR 231-2.4**

**Item 55.1:**

To satisfy the emission offset requirements of Part 231, the facility has obtained CO Emission Reduction Credits (ERCs) from the following sources:

Facility Name ERCs (tpy)	DEC ID
Betts Avenue Municipal Incinerator 486.6	2-6304-00093

**Condition 56: Emission offset requirements - NOx ERCs**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 231-2.4**

**Item 56.1:**

To satisfy the emission offset requirements of Part 231, the facility has obtained NOx, Emission Reduction Credits (ERCs) from the following sources:

Facility Name ERCs (tpy)	DEC ID
Greenpoint Municipal Incinerator 81.8	2-6101-00022
Betts Avenue Incinerator 80.2	2-6304-00093

**Condition 57: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:40CFR 52.21, Subpart A**

**Item 57.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 57.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

The combination of secondary (combustion) emissions from the landfill gas collection, flaring system and gas recovery plant (Emission Units U-00003 and U-00004) at the Fresh Kills Landfill will be capped at the levels permitted in the July 1998 Landfill Gas Collection and Flaring Systems permit. Specifically, the annual emissions from these units will be limited to 381.8 tons per year (tpy) of oxides of nitrogen, 773.2 tpy of Carbon Monoxide, 265.8 tpy of inhalable particulates (PM-10) ,

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45.5 tpy of non-methane organic compounds (NMOC), and  
119.4 tpy of sulfur dioxide.

Monitoring Frequency: DAILY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2013.  
Subsequent reports are due every 6 calendar month(s).

**Condition 58: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:40CFR 52.21, Subpart A**

**Item 58.1:**

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

Emission Unit: U-00003

Emission Unit: U-00004

Regulated Contaminant(s):  
CAS No: 0NY075-00-5 PM-10

**Item 58.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

The combination of secondary (combustion) emissions from the landfill gas collection, flaring system and gas recovery plants (Emission Units U-00003 and U-00004) at the Staten island Landfill, will not exceed the limits specified in the July 1998 Landfill Gas Collection and Flaring Systems permit (DEC Permit 2-6403-00011/00063). The emissions of inhalable particulates (PM-10) from the facility shall not exceed 265.8 tons per year. The emissions factor for this compound shall be established in an emissions stack test. Emissions of this compound shall be calculated based on the established emissions factor and the flow of landfill gas.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: LANDFILL GAS

Parameter Monitored: PM-10

Upper Permit Limit: 265.8 tons per year

Reference Test Method: EPA Method 5

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)



Reports due 30 days after the reporting period.  
The initial report is due 4/30/2013.  
Subsequent reports are due every 6 calendar month(s).

**Condition 59: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:40CFR 52.21, Subpart A**

**Item 59.1:**

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

Emission Unit: U-00003

Emission Unit: U-00004

Regulated Contaminant(s):  
CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 59.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

The combination of secondary (combustion) emissions from the landfill gas collection, flaring system and gas recovery plants (Emission Units U-00003 and U-00004) at the Staten island Landfill, will not exceed the limits specified in the July 1998 Landfill Gas Collection and Flaring Systems permit (DEC Permit 2-6403-00011/00063). The emissions of sulfur dioxide from the facility shall not exceed 119.4 tons per year. The emissions factor for this compound shall be established in an emissions stack test. Emissions of this compound shall be calculated based on the established emissions factor and the flow of landfill gas.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: LANDFILL GAS

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 119.4 tons per year

Reference Test Method: EPA Method 6

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2013.

Subsequent reports are due every 6 calendar month(s).



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

**Condition 60: Emission Point Definition By Emission Unit**  
Effective between the dates of 12/04/2012 and 12/03/2017

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 60.1:**

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

Emission Unit: U-00001

Emission Point: P1001

Height (ft.): 10 Diameter (in.): 6  
NYTMN (km.): 4490.059 NYTME (km.): 566.777

Emission Point: P1002

Height (ft.): 10 Diameter (in.): 6  
NYTMN (km.): 4490.071 NYTME (km.): 566.795

Emission Point: P1003

Height (ft.): 10 Diameter (in.): 6  
NYTMN (km.): 4490.065 NYTME (km.): 566.813

Emission Point: P1004

Height (ft.): 14 Diameter (in.): 6  
NYTMN (km.): 4490.065 NYTME (km.): 566.825

Emission Point: P1005

Height (ft.): 10 Diameter (in.): 6  
NYTMN (km.): 4490.071 NYTME (km.): 566.825

Emission Point: P1006

Height (ft.): 14 Diameter (in.): 6  
NYTMN (km.): 4490.041 NYTME (km.): 566.831

Emission Point: P1007

Height (ft.): 10 Diameter (in.): 6  
NYTMN (km.): 4490.059 NYTME (km.): 566.849

Emission Point: P1008

Height (ft.): 10 Diameter (in.): 6  
NYTMN (km.): 4490.053 NYTME (km.): 566.873

Emission Point: P1009

Height (ft.): 10 Diameter (in.): 6  
NYTMN (km.): 4490.059 NYTME (km.): 566.873

Emission Point: P1010

Height (ft.): 23 Length (in.): 72 Width (in.): 60  
NYTMN (km.): 4490.089 NYTME (km.): 566.879



Emission Point: P1011  
Height (ft.): 28 Diameter (in.): 4  
NYTMN (km.): 4490.071 NYTME (km.): 566.921

Emission Point: P1012  
Height (ft.): 28 Diameter (in.): 4  
NYTMN (km.): 4490.095 NYTME (km.): 566.939

Emission Point: P1013  
Height (ft.): 28 Diameter (in.): 4  
NYTMN (km.): 4490.095 NYTME (km.): 566.975

Emission Point: P1014  
Height (ft.): 28 Diameter (in.): 4  
NYTMN (km.): 4490.089 NYTME (km.): 566.981

Emission Point: P1015  
Height (ft.): 28 Diameter (in.): 4  
NYTMN (km.): 4490.083 NYTME (km.): 567.011

Emission Point: P1016  
Height (ft.): 28 Diameter (in.): 2  
NYTMN (km.): 4490.101 NYTME (km.): 567.029

Emission Point: P1017  
Height (ft.): 28 Diameter (in.): 2  
NYTMN (km.): 4490.095 NYTME (km.): 567.041

Emission Point: P1018  
Height (ft.): 28 Diameter (in.): 2  
NYTMN (km.): 4490.011 NYTME (km.): 567.023

Emission Point: P1019  
Height (ft.): 28 Diameter (in.): 2  
NYTMN (km.): 4490.011 NYTME (km.): 566.945

Emission Point: P1020  
Height (ft.): 28 Length (in.): 36 Width (in.): 36  
NYTMN (km.): 4489.981 NYTME (km.): 566.849

Emission Point: P1021  
Height (ft.): 28 Length (in.): 36 Width (in.): 36  
NYTMN (km.): 4490.041 NYTME (km.): 566.909

Emission Point: P1022  
Height (ft.): 28 Diameter (in.): 18  
NYTMN (km.): 4490.071 NYTME (km.): 566.969

**Item 60.2:**

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



Emission Unit: U-00002

Emission Point: P2001  
Height (ft.): 20 Diameter (in.): 8  
NYTMN (km.): 4492.127 NYTME (km.): 567.952

Emission Point: P2002  
Height (ft.): 20 Diameter (in.): 8  
NYTMN (km.): 4492.127 NYTME (km.): 567.958

Emission Point: P2003  
Height (ft.): 20 Diameter (in.): 8  
NYTMN (km.): 4492.127 NYTME (km.): 567.958

Emission Point: P2004  
Height (ft.): 20 Diameter (in.): 8  
NYTMN (km.): 4492.133 NYTME (km.): 567.964

Emission Point: P2005  
Height (ft.): 20 Diameter (in.): 8  
NYTMN (km.): 4492.121 NYTME (km.): 567.976

Emission Point: P2006  
Height (ft.): 20 Diameter (in.): 8  
NYTMN (km.): 4492.121 NYTME (km.): 567.964

Emission Point: P2007  
Height (ft.): 20 Diameter (in.): 12  
NYTMN (km.): 4492.109 NYTME (km.): 568.

Emission Point: P2008  
Height (ft.): 20 Diameter (in.): 12  
NYTMN (km.): 4492.109 NYTME (km.): 567.982

Emission Point: P2009  
Height (ft.): 20 Diameter (in.): 12  
NYTMN (km.): 4492.073 NYTME (km.): 568.018

Emission Point: P2010  
Height (ft.): 20 Diameter (in.): 12  
NYTMN (km.): 4492.109 NYTME (km.): 567.994

Emission Point: P2011  
Height (ft.): 20 Diameter (in.): 12  
NYTMN (km.): 4492.115 NYTME (km.): 567.976

Emission Point: P2012  
Height (ft.): 20 Diameter (in.): 12  
NYTMN (km.): 4492.115 NYTME (km.): 567.976

Emission Point: P2013  
Height (ft.): 20 Diameter (in.): 12



NYTMN (km.): 4492.115 NYTME (km.): 567.994

Emission Point: P2014  
Height (ft.): 20 Diameter (in.): 12  
NYTMN (km.): 4492.079 NYTME (km.): 568.054

Emission Point: P2015  
Height (ft.): 20 Diameter (in.): 12  
NYTMN (km.): 4492.013 NYTME (km.): 567.928

Emission Point: P2016  
Height (ft.): 20 Diameter (in.): 12  
NYTMN (km.): 4492.013 NYTME (km.): 567.946

Emission Point: P2017  
Height (ft.): 20 Diameter (in.): 12  
NYTMN (km.): 4492.055 NYTME (km.): 567.946

Emission Point: P2018  
Height (ft.): 20 Diameter (in.): 12  
NYTMN (km.): 4492.085 NYTME (km.): 567.976

Emission Point: P2019  
Height (ft.): 20 Diameter (in.): 12  
NYTMN (km.): 4492.073 NYTME (km.): 568.036

Emission Point: P2020  
Height (ft.): 20 Diameter (in.): 12  
NYTMN (km.): 4492.073 NYTME (km.): 568.

Emission Point: P2021  
Height (ft.): 20 Diameter (in.): 12  
NYTMN (km.): 4491.965 NYTME (km.): 567.928

Emission Point: P2022  
Height (ft.): 20 Diameter (in.): 12  
NYTMN (km.): 4491.995 NYTME (km.): 568.

Emission Point: P2023  
Height (ft.): 20 Diameter (in.): 12  
NYTMN (km.): 4492.055 NYTME (km.): 568.048

Emission Point: P2024  
Height (ft.): 20 Diameter (in.): 12  
NYTMN (km.): 4492.007 NYTME (km.): 568.006

Emission Point: P2025  
Height (ft.): 20 Diameter (in.): 8  
NYTMN (km.): 4492.037 NYTME (km.): 567.994

**Item 60.3:**

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

New York State Department of Environmental Conservation

Permit ID: 2-6499-00029/00151

Facility DEC ID: 2649900029



Emission Unit: U-00003

Emission Point: P3001

Height (ft.): 50 Diameter (in.): 143  
NYTMN (km.): 4492.028 NYTME (km.): 568.716

Emission Point: P3002

Height (ft.): 50 Diameter (in.): 143  
NYTMN (km.): 4492.036 NYTME (km.): 568.751

Emission Point: P3003

Height (ft.): 50 Diameter (in.): 143  
NYTMN (km.): 4492.366 NYTME (km.): 569.199

Emission Point: P3004

Height (ft.): 50 Diameter (in.): 143  
NYTMN (km.): 4492.377 NYTME (km.): 569.238

Emission Point: P3005

Height (ft.): 50 Diameter (in.): 143  
NYTMN (km.): 4492.232 NYTME (km.): 569.522

Emission Point: P3006

Height (ft.): 50 Diameter (in.): 143  
NYTMN (km.): 4492.239 NYTME (km.): 569.556

**Item 60.4:**

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

Emission Unit: U-00004

Emission Point: P4001

Height (ft.): 30 Diameter (in.): 25  
NYTMN (km.): 4491.119 NYTME (km.): 568.138 Building: LFGPLANT1

Emission Point: P4002

Height (ft.): 30 Diameter (in.): 25  
NYTMN (km.): 4491.114 NYTME (km.): 568.132 Building: LFGPLANT1

Emission Point: P4003

Height (ft.): 50 Diameter (in.): 36  
NYTMN (km.): 4491.112 NYTME (km.): 568.124

**Condition 61: Process Definition By Emission Unit**

**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 61.1:**

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



Emission Unit: U-00001  
Process: A11 Source Classification Code: 5-01-007-01

Process Description:

This process consists of treatment of landfill leachate by the following major unit processes: 1) influent flow distribution/holding; 2) biological treatment using SBR; 3) metals removal; 4) sedimentation; 5) filtration; 6) pH neutralization.

Emission Source/Control: S1011 - Combustion

Emission Source/Control: S1001 - Process

Emission Source/Control: S1002 - Process

Emission Source/Control: S1003 - Process

Emission Source/Control: S1004 - Process

Emission Source/Control: S1005 - Process

Emission Source/Control: S1006 - Process

Emission Source/Control: S1007 - Process

Emission Source/Control: S1008 - Process

Emission Source/Control: S1009 - Process

Emission Source/Control: S1010 - Process

**Item 61.2:**

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

Emission Unit: U-00002  
Process: A21 Source Classification Code: 5-01-007-01

Process Description:

This process consists of treatment of landfill leachate by the following major unit processes: (1) influent flow distribution; (2) biological treatment using SBR; (3) metals removal; (4) sedimentation; (5) filtration; (6) pH neutralization. There are three parallel modular treatment trains in the FKLTP, each with a design capacity of 300,000 gallons per day, for a total design capacity of 900,000 gallons per day.



- Emission Source/Control: S2011 - Combustion
- Emission Source/Control: S2001 - Process
- Emission Source/Control: S2002 - Process
- Emission Source/Control: S2003 - Process
- Emission Source/Control: S2004 - Process
- Emission Source/Control: S2005 - Process
- Emission Source/Control: S2006 - Process
- Emission Source/Control: S2007 - Process
- Emission Source/Control: S2008 - Process
- Emission Source/Control: S2009 - Process
- Emission Source/Control: S2010 - Process

**Item 61.3:**

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

Emission Unit: U-00003  
Process: A31 Source Classification Code: 5-01-004-10  
Process Description:

This process consists of six (6) enclosed flares installed to combust landfill gas (LFG). Three flare stations have been constructed. Each flare station is equipped with two LFG flares. The flare stations are located at sections 2/8, 3/4 and 6/7 of the landfill. Each flare station also includes compressor/blower pumps and condensate knockout tanks. Each flare has a maximum design capacity for combusting LFG flows up to 5,000 standard cubic feet per minute (scfm).

Emission Source/Control: S3001 - Control  
Control Type: FLARING

Emission Source/Control: S3002 - Control  
Control Type: FLARING

Emission Source/Control: S3003 - Control  
Control Type: FLARING

Emission Source/Control: S3004 - Control  
Control Type: FLARING

Emission Source/Control: S3005 - Control  
Control Type: FLARING



Emission Source/Control: S3006 - Control  
Control Type: FLARING

Emission Source/Control: S3007 - Process

**Item 61.4:**

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

Emission Unit: U-00003  
Process: A32 Source Classification Code: 5-01-004-22  
Process Description:  
Emissions from this process consist of the fugitive landfill gas emissions from the landfill sections that are not captured by the landfill gas collection system.

Emission Source/Control: S3007 - Process

**Item 61.5:**

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

Emission Unit: U-00004  
Process: A41 Source Classification Code: 5-01-004-21  
Process Description:  
This process consists of the Selexol landfill gas (LFG) recovery plant (Plant 1). LFG is processed to remove moisture, hydrogen sulfide and organic sulfur compounds, carbon dioxide and non-methane organic compounds. Plant 1 includes two (2) lean burn internal combustion compressor engines that are fired by processed LFG and a thermal oxidizer used to combust waste gases from the LFG recovery process.

Emission Source/Control: S4001 - Combustion  
Design Capacity: 1,500 horsepower (mechanical)

Emission Source/Control: S4002 - Combustion  
Design Capacity: 1,500 horsepower (mechanical)

Emission Source/Control: S4003 - Control  
Control Type: DIRECT FLAME AFTERBURNER

Emission Source/Control: S4004 - Process

**Condition 62: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement: 6 NYCRR 208.3 (b) (2) (iii) ('b')**

**Item 62.1:**

The Compliance Certification activity will be performed for:



Emission Unit: U-00003

Regulated Contaminant(s):  
CAS No: 0NY998-20-0 NMOC - LANDFILL USE ONLY

**Item 62.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or the operator of the landfill shall test the control device to verify that:

1. The NMOC emissions are reduced by 98 weight-percent; or
2. The outlet concentration of NMOC emissions from the device is less than 20 parts per million by volume (dry, as hexane, corrected to 3% oxygen).

See related Condition # 63.

Parameter Monitored: NMOC - LANDFILL USE ONLY

Upper Permit Limit: 20 parts per million by volume, dry basis as hexane at 3% oxygen

Reference Test Method: Method 18 or 25c

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 63: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement: 6 NYCRR 208.3 (b) (2) (iii) ('b')**

**Item 63.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant(s):  
CAS No: 0NY998-20-0 NMOC - LANDFILL USE ONLY

**Item 63.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or the operator of the landfill shall test the control device to verify that:



1. The NMOC emissions are reduced by 98 weight-percent;  
or
2. The outlet concentration of NMOC emissions from the device is less than 20 parts per million by volume (dry, as hexane, corrected to 3% oxygen).

See related Condition # 62.

Parameter Monitored: NMOC - LANDFILL USE ONLY  
Lower Permit Limit: 98 percent reduction by weight  
Reference Test Method: Method 18 or 25c  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST  
METHOD INDICATED  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 64: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement: 6 NYCRR 208.6 (c)**

**Item 64.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

**Item 64.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The following procedures shall be used for compliance with the surface methane operational standard as provided in section 208.4(d) of this Part.

- (1) After installation of the collection system, the owner or operator shall monitor surface concentrations of methane along the entire perimeter of the collection area and along a pattern that traverses the landfill at 30 meter-intervals (or a site-specific established spacing) for each collection area on a quarterly basis using an organic vapor analyzer, flame ionization detector, or other portable monitor meeting the specifications provided in subdivision (d) of this section.
- (2) The background concentration shall be determined by moving the probe inlet upwind and downwind outside the boundary of the landfill at a distance of at least 30 meters from the perimeter wells.



(3) Surface emission monitoring shall be performed in accordance with section 4.3.1 of method 21 of appendix A of 40 CFR part 60 (see section 200.9 of this Title), except that the probe inlet shall be placed within 5 to 10 centimeters of the ground. Monitoring shall be performed during typical meteorological conditions.

(4) Any reading of 500 parts per million or more above background at any location shall be recorded as a monitored exceedance and the actions specified in subparagraphs (i) through (v) of this paragraph shall be taken. As long as the specified actions are taken, the exceedance is not a violation of the operational requirements of section 208.4(d) of this Part.

(i) The location of each monitored exceedance shall be marked and the location recorded.

(ii) Cover maintenance or adjustments to the vacuum of the adjacent wells to increase the gas collection in the vicinity of each exceedance shall be made and the location shall be re-monitored within 10 calendar days of detecting the exceedance.

(iii) If the remonitoring of the location shows a second exceedance, additional corrective action shall be taken and the location shall be monitored again within 10 days of the second exceedance. If the remonitoring shows a third exceedance for the same location, the action specified in subparagraph (v) of this paragraph shall be taken, and no further monitoring of that location is required until the action specified in subparagraph (v) of this paragraph has been taken.

(iv) Any location that initially showed an exceedance but has a methane concentration less than 500 ppm methane above background at the 10-day remonitoring specified in subparagraph (ii) or (iii) of this paragraph shall be remonitored one month from the initial exceedance. If the one-month remonitoring shows a concentration less than 500 parts per million above background, no further monitoring of that location is required until the next quarterly monitoring period. If the one-month remonitoring shows an exceedance, the actions specified in subparagraph (iii) or (v) of this paragraph shall be taken.

(v) For any location where monitored methane concentration equals or exceeds 500 parts per million above background three times within a quarterly period, a new well or other collection device shall be installed within 120 calendar days of the initial exceedance. An alternative remedy to the exceedance, such as upgrading the blower, header pipes



or control device, and a corresponding timeline for installation may be submitted to the department for approval.

(5) The owner or operator shall implement a program to monitor for cover integrity and implement cover repairs as necessary on a monthly basis.

Reference Test Method: 40 CFR Part 60, App a, Method 21

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2013.

Subsequent reports are due every 12 calendar month(s).

**Condition 65: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement: 6 NYCRR 208.6 (d)**

**Item 65.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

**Item 65.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Each owner or operator seeking to comply with the provisions in subdivision(c) of this section shall comply with the following instrumentation specifications and procedures for surface emission monitoring devices:

(1) The portable analyzer shall meet the instrument specifications provided in section 3 of Method 21 of appendix A of 40 CFR part 60 (see section 200.9 of this Title), except that "methane" shall replace all references to VOC.

(2) The calibration gas shall be methane, diluted to a nominal concentration of 500 parts per million in air.

(3) To meet the performance evaluation requirements in section 3.1.3 of method 21 of appendix A of 40 CFR part 60, the instrument evaluation procedures of section 4.4 of method 21 of appendix A shall be used (see section 200.9



of this Title).

(4) The calibration procedures provided in section 4.2 of Method 21 of appendix A of 40 CFR part 60 (see section 200.9 of this Title) shall be followed immediately before commencing a surface monitoring survey.

(5) The provisions of this section apply at all times, except during periods of start-up, shutdown, or malfunction, provided that the duration of start-up, shutdown, or malfunction shall not exceed five days for collection systems and shall not exceed one hour for treatment or control devices.

Reference Test Method: 40 CFR Part 60, App A, Method 21

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2013.

Subsequent reports are due every 12 calendar month(s).

**Condition 66: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement: 6 NYCRR Subpart 231-2**

**Item 66.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant(s):

CAS No: 0NY998-20-0 NMOC - LANDFILL USE ONLY

**Item 66.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

When the landfill gas treatment facilities are operating, the emissions of NMOC - LANDFILL USE ONLY from the flares shall not exceed 35.9 tons per year or 8.2 pounds per hour. The emissions factor for this compound shall be established in a stack test. Emissions of this compound shall be calculated based on the established emissions factor and the flow of landfill gas.

Work Practice Type: PARAMETER OF PROCESS MATERIAL



Process Material: LANDFILL GAS  
Parameter Monitored: NMOC - LANDFILL USE ONLY  
Upper Permit Limit: 35.9 tons per year  
Reference Test Method: Method 25 or 25c  
Monitoring Frequency: DAILY  
Averaging Method: ANNUAL MAXIMUM ROLLED DAILY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2013.  
Subsequent reports are due every 6 calendar month(s).

**Condition 67: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement: 6 NYCRR Subpart 231-2**

**Item 67.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 67.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

When the landfill gas treatment facilities are operating, the total emissions of oxides of carbon monoxide (CO) from the flares shall not exceed 610 tons per year or 139.3 pounds per hour. The emissions factor for this compound shall be established in a stack test. Emissions of this compound shall be calculated based on the established emissions factor and the flow of landfill gas.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: LANDFILL GAS

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 610 tons per year

Reference Test Method: Method 10b

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2013.

Subsequent reports are due every 6 calendar month(s).

**Condition 68: Compliance Certification**



Effective between the dates of 12/04/2012 and 12/03/2017

Applicable Federal Requirement:6 NYCRR Subpart 231-2

**Item 68.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant(s):

CAS No: 0NY998-20-0 NMOC - LANDFILL USE ONLY

**Item 68.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

When the landfill gas treatment facilities are operating, the emissions of NMOC - LANDFILL USE ONLY from the flares shall not exceed 35.9 tons per year or 8.2 pounds per hour. The emissions factor for this compound shall be established in a stack test. Emissions of this compound shall be calculated based on the established emissions factor and the flow of landfill gas.

Parameter Monitored: NMOC - LANDFILL USE ONLY

Upper Permit Limit: 8.2 pounds per hour

Reference Test Method: Method 25 or 25c

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR MAXIMUM - NOT TO BE EXCEEDED

MORE THAN ONCE PER CALENDAR YEAR

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 69: Compliance Certification**

Effective between the dates of 12/04/2012 and 12/03/2017

Applicable Federal Requirement:6 NYCRR Subpart 231-2

**Item 69.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 69.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

When the landfill gas treatment facilities are operating,

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the total emissions of oxides of nitrogen (NOx) from the flares shall not exceed 300.7 tons per year or 68.7 pounds per hour. The emissions factor for this compound shall be established in a stack test. Emissions of this compound shall be calculated based on the established emissions factor and the flow of landfill gas.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 68.7 pounds per hour

Reference Test Method: Method 7e

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 70: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 212.6 (a)**

**Item 70.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: A31

**Item 70.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Monitor flares daily to verify no visible emissions per special condition of Permit DEC ID # 2-6403-00011/00063. The opacity will be monitored and recorded daily using the 6-Minute Average, Method 22.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 22

Monitoring Frequency: DAILY

Averaging Method: 6-MINUTE AVERAGE (METHOD 22)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2013.

Subsequent reports are due every 6 calendar month(s).

**Condition 71: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 212.10**

**Item 71.1:**



The Compliance Certification activity will be performed for:

Emission Unit: U-00003  
Process: A31

**Item 71.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Restrictions on maximum landfill gas input rates into the flares, as contained in Permit DECID # 2-6403-00011/00063. Flow to each flare will be measured and records of flow measurements will be submitted. The upper limit of flow to the combined flares at each section varies, as specified in the permit DECID # 2-6403-00011/00063.

Monitoring Frequency: FOUR TIMES PER HOUR

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2013.

Subsequent reports are due every 6 calendar month(s).

**Condition 72: Compliance Certification**

**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR 212.10**

**Item 72.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00003  
Process: A31

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC  
CAS No: 0NY998-20-0 NMOC - LANDFILL USE ONLY

**Item 72.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Temperature of the combustion zone of the flares will be measured continuously and records submitted as required by Permit DECID # 2-6403-00011/00063. The flares shall not operate for more than 15 minutes outside the manufacturer's performance range of 1,400 to 1,800 degrees Fahrenheit. The combustion zone temperature will be measured and recorded in degrees Fahrenheit.

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Parameter Monitored: TEMPERATURE  
Lower Permit Limit: 1400 degrees Fahrenheit  
Upper Permit Limit: 1800 degrees Fahrenheit  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 15 Minute Average  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2013.  
Subsequent reports are due every 6 calendar month(s).

**Condition 73: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR Subpart 231-2**

**Item 73.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00004  
Process: A41

Regulated Contaminant(s):  
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 73.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The emissions of oxides of nitrogen (NOx) from Selexol Plant #1 shall not exceed 81.1 tons per year (total from compressor engines and thermal oxidizer) or 18.5 pounds per hour. The emissions factor for this compound shall be established in a stack test. Emissions of this compound shall be calculated based on the established emissions factor and the flow of landfill gas.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: LANDFILL GAS

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 81.1 tons per year

Reference Test Method: Method 7e

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2013.

Subsequent reports are due every 6 calendar month(s).

**Condition 74: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**



**Applicable Federal Requirement:6 NYCRR Subpart 231-2**

**Item 74.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00004  
Process: A41

Regulated Contaminant(s):  
CAS No: 000630-08-0 CARBON MONOXIDE

**Item 74.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emissions of carbon monoxide (CO) from Selexol Plant #1 shall not exceed 163.2 tons per year (total from compressor engines and thermal oxidizer) or 37.3 pounds per hour. The emissions factor for this compound shall be established in a stack test. Emissions of this compound shall be calculated based on the established emissions factor and the flow of landfill gas.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 37.3 pounds per hour

Reference Test Method: Method 10b

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR MAXIMUM - NOT TO BE EXCEEDED  
MORE THAN ONCE PER CALENDAR YEAR

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 75: Compliance Certification**

**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR Subpart 231-2**

**Item 75.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00004  
Process: A41

Regulated Contaminant(s):  
CAS No: 000630-08-0 CARBON MONOXIDE

**Item 75.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

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Facility DEC ID: 2649900029



**Monitoring Description:**

The emissions of carbon monoxide (CO) from Selexol Plant #1 shall not exceed 163.2 tons per year (total from compressor engines and thermal oxidizer) or 37.3 pounds per hour. The emissions factor for this compound shall be established in a stack test. Emissions of this compound shall be calculated based on the established emissions factor and the flow of landfill gas.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: LANDFILL GAS

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 163.2 tons per year

Reference Test Method: Method 10b

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2013.

Subsequent reports are due every 6 calendar month(s).

**Condition 76: Compliance Certification**

**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR Subpart 231-2**

**Item 76.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00004

Process: A41

Regulated Contaminant(s):

CAS No: 0NY998-20-0 NMOC - LANDFILL USE ONLY

**Item 76.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

**Monitoring Description:**

The emissions of NMOC - LANDFILL USE ONLY from Selexol Plant #1 shall not exceed 9.6 tons per year (total from compressor engines and thermal oxidizer) or 2.2 pounds per hour. The emissions factor for this compound shall be established in a stack test. Emissions of this compound shall be calculated based on the established emissions factor and the flow of landfill gas.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: LANDFILL GAS

Parameter Monitored: NMOC - LANDFILL USE ONLY

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Upper Permit Limit: 9.6 tons per year  
Reference Test Method: Method 25 or 25c  
Monitoring Frequency: DAILY  
Averaging Method: ANNUAL MAXIMUM ROLLED DAILY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 4/30/2013.  
Subsequent reports are due every 6 calendar month(s).

**Condition 77: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR Subpart 231-2**

**Item 77.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00004  
Process: A41

Regulated Contaminant(s):  
CAS No: 0NY998-20-0 NMOC - LANDFILL USE ONLY

**Item 77.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emissions of NMOC - LANDFILL USE ONLY from Selexol Plant #1 shall not exceed 9.6 tons per year (total from compressor engines and thermal oxidizer) or 2.2 pounds per hour. The emissions factor for this compound shall be established in a stack test. Emissions of this compound shall be calculated based on the established emissions factor and the flow of landfill gas.

Parameter Monitored: NMOC - LANDFILL USE ONLY

Upper Permit Limit: 2.2 pounds per hour

Reference Test Method: Method 25 or 25c

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1 HOUR MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 78: Compliance Certification**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:6 NYCRR Subpart 231-2**

**Item 78.1:**

The Compliance Certification activity will be performed for:



Emission Unit: U-00004  
Process: A41

Regulated Contaminant(s):  
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 78.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emissions of oxides of nitrogen (NO<sub>x</sub>) from Selexol Plant #1 shall not exceed 81.1 tons per year (total from compressor engines and thermal oxidizer) or 18.5 pounds per hour. The emissions factor for this compound shall be established in a stack test. Emissions of this compound shall be calculated based on the established emissions factor and the flow of landfill gas.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 18.5 pounds per hour

Reference Test Method: Method 7e

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 3-HOUR ROLLING AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 79: Compliance Certification**

**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement: 40CFR 52.21, Subpart A**

**Item 79.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00004  
Process: A41

Regulated Contaminant(s):  
CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 79.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emissions of sulfur dioxide from Selexol Plant #1 shall not exceed 25.3 tons per year (total from compressor engines and thermal oxidizer) or 5.8 pounds per hour. The emissions factor for this compound shall be established in a stack test. Emissions of this compound shall be calculated based on the established emissions factor and the flow of landfill gas.

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Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 5.8 pounds per hour

Reference Test Method: Method 6c

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1 HOUR MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 80: Compliance Certification**  
Effective between the dates of 12/04/2012 and 12/03/2017

**Applicable Federal Requirement:40CFR 52.21, Subpart A**

**Item 80.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00004

Process: A41

Regulated Contaminant(s):

CAS No: 0NY075-00-5 PM-10

**Item 80.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emissions of PM-10 from Selexol Plant #1 shall not exceed 56.3 tons per year (total from the compressor engines and thermal oxidizer) or 12.9 pounds per hour. The emissions factor for this compound shall be established in a stack test. Emissions of this compound shall be calculated based on the emission factor and the flow of landfill gas.

Parameter Monitored: PM-10

Upper Permit Limit: 12.9 pounds per hour

Reference Test Method: RM 201/201a and 202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1 HOUR MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 81: Compliance Certification**  
Effective between the dates of 12/04/2012 and 12/03/2017

**Applicable Federal Requirement:40CFR 52.21, Subpart A**

**Item 81.1:**

The Compliance Certification activity will be performed for:



Emission Unit: U-00004  
Process: A41

Regulated Contaminant(s):  
CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 81.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The emissions of sulfur dioxide from Selexol Plant #1 shall not exceed 25.3 tons per year (total from compressor engines and thermal oxidizer) or 5.8 pounds per hour. The emissions factor for this compound shall be established in a stack test. Emissions of this compound shall be calculated based on the established emissions factor and the flow of landfill gas.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: LANDFILL GAS

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 25.3 tons per year

Reference Test Method: Method 6c

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2013.

Subsequent reports are due every 6 calendar month(s).

**Condition 82: Compliance Certification**

**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable Federal Requirement:40CFR 52.21, Subpart A**

**Item 82.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00004  
Process: A41

Regulated Contaminant(s):  
CAS No: 0NY075-00-5 PM-10

**Item 82.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

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**Facility DEC ID: 2649900029**



The emissions of PM-10 from Selexol Plant #1 shall not exceed 56.3 tons per year (total from the compressor engines and thermal oxidizer) or 12.9 pounds per hour. The emissions factor for this compound shall be established in a stack test. Emissions of this compound shall be calculated based on the emission factor and the flow of landfill gas.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: LANDFILL GAS

Parameter Monitored: PM-10

Upper Permit Limit: 56.3 tons per year

Reference Test Method: RM 201/201a and 202

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2013.

Subsequent reports are due every 6 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: 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 applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.**

**Condition 83: Contaminant List**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable State Requirement:ECL 19-0301**

**Item 83.1:**  
Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 000074-82-8  
Name: METHANE



CAS No: 000630-08-0  
Name: CARBON MONOXIDE

CAS No: 007446-09-5  
Name: SULFUR DIOXIDE

CAS No: 0NY075-00-5  
Name: PM-10

CAS No: 0NY210-00-0  
Name: OXIDES OF NITROGEN

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

CAS No: 0NY998-20-0  
Name: NMOC - LANDFILL USE ONLY

**Condition 84: Unavoidable noncompliance and violations  
Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable State Requirement: 6 NYCRR 201-1.4**

**Item 84.1:**

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

(a) The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain



reporting and notification provisions for applicable requirements more stringent than those above.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

**Condition 85: Visible Emissions Limited**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable State Requirement:6 NYCRR 211.2**

**Item 85.1:**

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.

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

**Condition 86: Compliance Demonstration**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable State Requirement:6 NYCRR 227-2.4 (f) (2)**

**Item 86.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00004  
Process: A41

Emission Point: P4001  
Emission Source: S4001

Regulated Contaminant(s):  
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 86.2:**

Compliance Demonstration shall include the following monitoring:



Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition applies to stationary internal combustion engines that have a maximum mechanical output rating equal to or greater than 200 brake horsepower in a severe ozone nonattainment area or 400 brake horsepower outside a severe ozone nonattainment area and are fired by landfill gas or digester gas (solely or in combination with natural gas). The owner or operator is required to submit a compliance testing protocol to the department for approval at least 30 days prior to testing. The owner or operator will maintain all records on-site for a minimum of five years.

The two (2) lean burn internal combustion compressor engines that are fired by processed LFG and a thermal oxidizer used to combust waste gases from the LFG recovery process. Process A41 has the following associated Emission Points: P4001, P4002, P4003 - LFGPLANT1 Building

The existing landfill gas processing Plant #1 (Selexol process) consists of the following Emission Sources/Control:

S4001 - 1500 horsepower - mechanical (combustion)  
S4002 - 1500 horsepower - mechanical (combustion)  
S4003 - 40.05 MM Btu/hr Direct Flame Afterburner (control)

This condition applies to the 1500 horsepower COOPER-BESSEMER/GMVS-8C lean burn internal combustion compressor engine (Emission Source S4001).

(f) Stationary internal combustion engines. The owner or operator of a stationary internal combustion engine either having a maximum mechanical output rating equal to or greater than 200 brake horsepower in a severe ozone nonattainment area or having a maximum mechanical output rating equal to or greater than 400 brake horsepower outside a severe ozone nonattainment area must comply with the emission limit in paragraph (2) of this subdivision as:

(2) For internal combustion engines fired with landfill gas or digester gas (solely or in combination with natural gas): 2.0 grams per brake horsepower-hour.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 2.0 grams per brake horsepower-hour

Reference Test Method: 40 CFR Part 60, App A, Method 7, 7E or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

**New York State Department of Environmental Conservation**

Permit ID: 2-6499-00029/00151

Facility DEC ID: 2649900029



Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST  
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 87: Compliance Demonstration**  
**Effective between the dates of 12/04/2012 and 12/03/2017**

**Applicable State Requirement: 6 NYCRR 227-2.4 (f) (2)**

**Item 87.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00004

Emission Point: P4002

Process: A41

Emission Source: S4002

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 87.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition applies to stationary internal combustion engines that have a maximum mechanical output rating equal to or greater than 200 brake horsepower in a severe ozone nonattainment area or 400 brake horsepower outside a severe ozone nonattainment area and are fired by landfill gas or digester gas (solely or in combination with natural gas). The owner or operator is required to submit a compliance testing protocol to the department for approval at least 30 days prior to testing. The owner or operator will maintain all records on-site for a minimum of five years.

The two (2) lean burn internal combustion compressor engines that are fired by processed LFG and a thermal oxidizer used to combust waste gases from the LFG recovery process. Process A41 has the following associated Emission Points: P4001, P4002, P4003 - LFGPLANT1 Building

The existing landfill gas processing Plant #1 (Selexol process) consists of the following Emission Sources/Control:

S4001 - 1500 horsepower - mechanical (combustion)

S4002 - 1500 horsepower - mechanical (combustion)

S4003 - 40.05 MM Btu/hr Direct Flame Afterburner (control)

This condition applies to the 1500 horsepower COOPER-



BESSEMER/GMVS-8C lean burn internal combustion compressor engine (Emission Source S4002).

(f) Stationary internal combustion engines. The owner or operator of a stationary internal combustion engine either having a maximum mechanical output rating equal to or greater than 200 brake horsepower in a severe ozone nonattainment area or having a maximum mechanical output rating equal to or greater than 400 brake horsepower outside a severe ozone nonattainment area must comply with one of the emission limit in paragraph (2) of this subdivision as:

(2) For internal combustion engines fired with landfill gas or digester gas (solely or in combination with natural gas): 2.0 grams per brake horsepower-hour.

Upper Permit Limit: 2.0 grams per brake horsepower-hour  
Reference Test Method: 40 CFR Part 60, App A, Method 7, 7E or 19  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

