



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 2-6301-00008/02003
Mod 0 Effective Date: 05/06/2004 Expiration Date: No expiration date.
Mod 1 Effective Date: 06/02/2004 Expiration Date: No expiration date.
Mod 2 Effective Date: 11/21/2005 Expiration Date: No expiration date.
Mod 3 Effective Date: 04/04/2007 Expiration Date: No expiration date.
Mod 4 Effective Date: 12/04/2008 Expiration Date: No expiration date.
Mod 5 Effective Date: 05/16/2011 Expiration Date: No expiration date.
Mod 6 Effective Date: 12/06/2012 Expiration Date: No expiration date.

Permit Issued To: NYC DEPT OF ENVIRONMENTAL PROTECTION
96-05 HORACE HARDING EXPWY 5TH FL
CORONA, NY 11368

Contact: VINCENT SAPIENZA
NYCDEP / BWT
96-05 HORACE HARDING EXPWY - 2ND FL
CORONA, NY 11368
(718) 595-5050

Facility: NYC-DEP BOWERY BAY WPCP
43-10 BERRIAN BLVD
ASTORIA, NY 11105

Contact: VINCENT SAPIENZA
NYCDEP / BWPC
96-05 HORACE HARDING EXPWY
FLUSHING, NY 11368
(718) 595-4906

Description:
This permit modification is to place an enforceable plant-wide greenhouse gases ("GHGs") emission cap below the threshold of 99,000 tpy CO₂e, pursuant to 6NYCRR Part 231-13.5.

In accordance with the New York State Department of Environmental Conservation's ("DECs") April 20, 2012 letter, DEC believes that Bowery Bay WWTP may have the potential to emit GHGs that are greater than 100tpy on a



mass basis and 100,000 tpy on a CO₂e basis. If DEC's is correct, DEP was directed to submit either: 1) a Title V application that includes GHGs in the summary; or 2) an application to modify the existing ASF permit to include an enforceable emissions cap limiting GHGs to less than 99,000 tpy CO₂e.

Based on a review of the WWTP's operational information, Bowery Bay WWTP's actual emissions have been less than 100 tpy on a mass basis or 100,000 tpy on a CO₂e basis. A majority of the WWTP's GNG emissions are due to the venting of all produced digester gas to the atmosphere because of the WWTP's two existing waste gas burners are not operational and three existing boilers have been out of operation since a November 2005 fire incident. DEP is currently replacing the two existing non-operational waste gas burners with two new Varec 10" waste gas burners.

After installation, of the two new waste gas burners is completed, the WWTP will cease venting digester gas and GNG emissions will be drastically reduced. Therefore, DEP hereby submits a modification application to place a plant-wide GHGs emission cap in the Bowery Bay ASF permit to below the GHGs threshold of 99,000 tpy CO₂e, pursuant to 6NYCRR Part 231-13.5.

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
 - Applications for Permit Renewals and Modifications
 - Permit modifications, suspensions or revocations by the Department
 - Permit modifications, suspensions or revocations by the Department
 - Permit modifications, suspensions or revocations by the Department
 - Permit Modifications, Suspensions and Revocations by the Department

Facility Level

- Submission of Applications for Permit Modification or Renewal-REGION 2 HEADQUARTERS
- Submission of application for permit modification or renewal - REGION 2 HEADQUARTERS



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

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

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

Item 2.1:

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

Condition 4-1: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 4-1.1:

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 4-1.2:

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 4-1.3:

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 3: Applications for Permit Renewals and Modifications

Applicable State Requirement: 6 NYCRR 621.13

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 4-2: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6 NYCRR 621.13

Item 4-2.1:

The Department reserves the right 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.

Condition 6-1: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6 NYCRR 621.13

Item 6-1.1:

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.

Condition 5-1: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6 NYCRR 621.13

Item 5-1.1:

The Department reserves the right 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.

Condition 4: Permit Modifications, Suspensions and Revocations by the Department

Applicable State Requirement: 6 NYCRR 621.14

Item 4.1:

The Department reserves the right 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 Applications for Permit Modification or Renewal-REGION 2 HEADQUARTERS

Applicable State Requirement: 6 NYCRR 621.5 (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

**Condition 4-3: Submission of application for permit modification or renewal -
REGION 2**

HEADQUARTERS

Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 4-3.1:

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

New York State Department of Environmental Conservation

Permit ID: 2-6301-00008/02003

Facility DEC ID: 2630100008



Permit Under the Environmental Conservation Law (ECL)

**ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY
PERMIT**

IDENTIFICATION INFORMATION

Permit Issued To: NYC DEPT OF ENVIRONMENTAL PROTECTION
96-05 HORACE HARDING EXPWY 5TH FL
CORONA, NY 11368

Facility: NYC-DEP BOWERY BAY WPCP
43-10 BERRIAN BLVD
ASTORIA, NY 11105

Authorized Activity By Standard Industrial Classification Code:
4952 - SEWERAGE SYSTEMS

Mod 0 Permit Effective Date: 05/06/2004
date.

Permit Expiration Date: No expiration

Mod 1 Permit Effective Date: 06/02/2004
date.

Permit Expiration Date: No expiration

Mod 4 Permit Effective Date: 12/04/2008
date.

Permit Expiration Date: No expiration

Mod 5 Permit Effective Date: 05/16/2011
date.

Permit Expiration Date: No expiration

Mod 6 Permit Effective Date: 12/06/2012
date.

Permit Expiration Date: No expiration



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 5-1 6 NYCRR 202-1.1: Required Emissions Tests
- 5-2 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- *6-1 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *5-3 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 4-3 6 NYCRR 201-7.2: Facility Permissible Emissions
- *4-4 6 NYCRR 201-7.2: Capping Monitoring Condition
- *5-4 6 NYCRR 201-7.2: Capping Monitoring Condition
- *4-6 6 NYCRR 201-7.2: Capping Monitoring Condition
- 9 6 NYCRR 202-1.2: Notification
- 10 6 NYCRR 202-1.3: Acceptable procedures
- 6-2 6 NYCRR 211.1: Air pollution prohibited
- 16 6 NYCRR 225-1.2 (a) (2): Compliance Demonstration
- 17 6 NYCRR 225-1.8: Compliance Demonstration
- 19 6 NYCRR 227-1.3 (a): Compliance Demonstration
- 21 40CFR 60.8(d), NSPS Subpart A: Prior notice.

Emission Unit Level

EU=1-BOILR

- 24 40CFR 60.42c(i), NSPS Subpart Dc: Enforceability.
- 25 40CFR 60.43c(c), NSPS Subpart Dc: Compliance Demonstration
- 26 40CFR 60.48c(f)(1), NSPS Subpart Dc: Compliance Demonstration

EU=2-GENER

- 28 40CFR 60.48c(f)(1), NSPS Subpart Dc: Compliance Demonstration

EU=3-WWTRE

- 29 6 NYCRR 212.4 (a): Emissions from new emission sources and/or modifications
- 30 6 NYCRR 212.6 (a): Compliance Demonstration

EU=4-SLDGE

- 31 6 NYCRR 212.4 (a): Emissions from new emission sources and/or modifications
- 32 6 NYCRR 212.6 (a): Compliance Demonstration

EU=6-GASST

- 34 6 NYCRR 230.2 (d) (1): Stage I and II requirements for tanks constructed, replaced, or substantially modified after June 27, 1987
- 35 6 NYCRR 230.2 (f): Requirements for gasoline transport vehicles delivering to Stage I controlled dispensing sites.
- 36 6 NYCRR 230.2 (g): Compliance Demonstration
- 37 6 NYCRR 230.2 (k): Compliance Demonstration
- 38 6 NYCRR 230.2 (k): Compliance Demonstration
- 39 6 NYCRR 230.2 (k): Compliance Demonstration
- 40 6 NYCRR 230.2 (k): Compliance Demonstration



STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 41 ECL 19-0301: Contaminant List
- 5-5 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 43 6 NYCRR Subpart 201-5: Emission Unit Definition
- 5-6 6 NYCRR 211.2: Visible Emissions Limited

Emission Unit Level

- 45 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 46 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

NOTE: * preceding the condition number indicates capping.



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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Sealing - 6 NYCRR 200.5

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

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

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

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

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

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

Item C: Maintenance of Equipment - 6 NYCRR 200.7

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



required to operate such device effectively.

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

If an existing emission source was subject to the permitting requirements of 6 NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

- (a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.
- (b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

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

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

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

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

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

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

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

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

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



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

Item K: Open Fires Prohibitions - 6 NYCRR 215.2

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

Item 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.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 5-1: Required Emissions Tests



Effective between the dates of 05/16/2011 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 5-1.1:

For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the commissioner may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time.

Condition 5-2: Facility Permissible Emissions

Effective between the dates of 05/16/2011 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 6-2.1:

The sum of emissions from the emission units specified in this permit shall not equal or exceed the following

Potential To Emit (PTE) rate for each regulated contaminant:

CAS No: 0NY210-00-0 (From Mod 6) PTE: 49,800 pounds
per year

Name: OXIDES OF NITROGEN

CAS No: 0NY750-00-0 (From Mod 6) PTE: 198,000,000
pounds per year

Name: CARBON DIOXIDE EQUIVALENTS

Condition 6-1: Capping Monitoring Condition

Effective between the dates of 12/06/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 6-1.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 201-6

Item 6-1.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 6-1.3:

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.



Item 6-1.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 6-1.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 6-1.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

Item 6-1.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

Plant-wide GHG emissions are capped below 99,000 tons CO₂e per year.

The owner or operator shall calculate GHG emissions (based on the fuel usage) using the following formula:

Plant-wide GHG emissions = (plant-wide CO₂ emission + plant-wide CH₄ emission * (21) + plant-wide N₂O emission * (310)) / 1000 < 99,000 tons per year.

Where:

Plant-wide CO₂ emission = D(10.21) + NG(0.0545) + DGF(0.04379) + DGV(37%)(0.0283)(1842) / 1000

Plant-wide CH₄ emission = (D(0.41) + NG(0.001028) + DGF(0.002691) + DGV(63%)(0.0283)(668)) / 1000

Plant-wide N₂O emission = (D(0.08) + NG(0.000103) + DGF(0.000503)) / 1000

Where:

D - 12-month rolling total of distillate oil fired in gal/yr,

10.21 - CO₂ emission factor proposed by EPA in Kg/gal,



0.41 - CH₄ emission factor proposed by EPA in g/gal,
0.08 - N₂O emission factor proposed by EPA in g/gal.

NG - total natural gas fired in scf/yr,
0.0545 - CO₂ emission factor proposed by EPA in
Kg/scf,
0.001028 - CH₄ emission factor proposed by EPA in
g/scf,
0.000103 - N₂O emission factor proposed by EPA in
g/scf.

DGF - total digester gas fired in scf/yr,
0.04379 - CO₂ emission factor proposed by EPA in
Kg/scf,
0.002691 - CH₄ emission factor proposed by EPA in
g/scf,
0.000503 - N₂O emission factor proposed by EPA in
g/scf.

DGV - total vented digester gas fired in scf/yr,
37% - estimated percentage of CO₂ in raw digester
gas,
63% - estimated percentage of CH₄ in raw digester gas
1 ft³ = 0.0283 m³
Density of CH₄ = 668 g/m³
Density of CO₂ = 1842 g/m³

Where:
21 - Global Warming Potential of CH₄,
310 - Global Warming Potential of N₂O.

Upon request, a stack test shall be required to
demonstrate compliance with this capping condition.

Parameter Monitored: CARBON DIOXIDE EQUIVALENTS
Upper Permit Limit: 99000 tons per year
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2013.
Subsequent reports are due every 12 calendar month(s).

Condition 5-3: Capping Monitoring Condition
Effective between the dates of 05/16/2011 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 5-3.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would

New York State Department of Environmental Conservation

Permit ID: 2-6301-00008/02003

Facility DEC ID: 2630100008



otherwise be subject to:

6 NYCRR Subpart 201-6

Item 5-3.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 5-3.3:

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.

Item 5-3.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 5-3.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 5-3.6:

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

Emission Unit: 5-WGTRE
Process: DGB

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

Item 5-3.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes
Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
NOx emission factor of 40.8 lb/mmcsf for digester gas
fired flares should be demonstrated through the stack
test.

Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 40.8 pounds per million cubic feet
Reference Test Method: EPA
Monitoring Frequency: SINGLE OCCURRENCE

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Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-3: Facility Permissible Emissions
Effective between the dates of 12/04/2008 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 6-3.1:

The sum of emissions from the emission units specified in this permit shall not equal or exceed the following

Potential To Emit (PTE) rate for each regulated contaminant:

per year	CAS No: 0NY100-00-0 (From Mod 6)	PTE: 49,800 pounds
	Name: HAP	
per year	CAS No: 0NY210-00-0 (From Mod 6)	PTE: 49,800 pounds
	Name: OXIDES OF NITROGEN	
per year	CAS No: 0NY998-00-0 (From Mod 6)	PTE: 49,800 pounds
	Name: VOC	

Condition 4-4: Capping Monitoring Condition
Effective between the dates of 12/04/2008 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 4-4.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 201-6

Item 4-4.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 4-4.3:

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.

Item 4-4.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an



6 NYCRR Subpart 231-2

Item 5-4.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 5-4.3:

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.

Item 5-4.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 5-4.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 5-4.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 5-4.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

Plant-wide NOx emission limit shall be less than 24.9
tons per year.

The owner or operator shall calculate NOx emissions (based
on the fuel quantities) using the following
formula:

$D(0.02) + G(100) + E(0.44) + E1(0.2) + F(40.8) < 49,800$
lbs/yr of Oxides of Nitrogen emissions.

Where: D = 12-month rolling total of distillate oil
fired (from boilers) in gals/yr;

G = 12-month rolling total of natural



gas fired (from boilers) in MMSCF/yr;
E = 12-month rolling total of diesel
fuel fired (from engines) in gals/yr;
E1 = 12-month rolling total of diesel
fuel fired (from two new 2,000 kW emergency generator
engines 2010 year model) in
gals/yr
-emission factor 0.2 lb/gal for
firing diesel fuel is based on the emission standard
provided in
40CFR 89.112;
F = 12-month rolling total of digester
gas fired (waste gas treatment system - flares) in
MMSCF/yr
-emission factor 40.8 lb/mmscft
for the digester gas fired from the waste gas treatment
system should be demonstrated
through the stack test.

Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 24.9 tons per year
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2012.
Subsequent reports are due every 12 calendar month(s).

Condition 4-6: Capping Monitoring Condition
Effective between the dates of 12/04/2008 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 201-7.2

Item 4-6.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 201-6

Item 4-6.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 4-6.3:

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.

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Item 4-6.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 4-6.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 4-6.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY100-00-0 HAP

Item 4-6.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

ANNUAL HAP EMISSIONS FROM WASTEWATER
TREATMENT PROCESS WILL BE ESTIMATED USING
THE TOXCHEM+MODEL. THE TARGET COMPOUND
LIST OF HAP WILL BE SAMPLED AT THE
INFLUENT AT A MINIMUM OF ONCE PER YEAR.

Parameter Monitored: HAP

Upper Permit Limit: 24.9 tons per year

Reference Test Method: USEPA 600 SERIES

Monitoring Frequency: MINIMUM - ONCE PER CALENDAR YEAR

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2009.

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

Condition 9: Notification

Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 202-1.2

Item 9.1:

A person who is required by the commissioner to submit a stack test report shall notify the commissioner, in writing, not less than 30 days prior to the test, of the time and date of the test. Such notification shall also include the acceptable procedures to be used to stack test including sampling and analytical procedures. Such person shall allow the commissioner, or his



representative, free access to observe stack testing being conducted by such person.

Condition 10: Acceptable procedures
Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 202-1.3

Item 10.1:

Emission testing, sampling, and analytical determinations to ascertain compliance with this Subpart shall be conducted in accordance with test methods acceptable to the commissioner.

Condition 6-2: Air pollution prohibited
Effective between the dates of 12/06/2012 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 211.1

Item 6-2.1:

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 16: Compliance Demonstration
Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 225-1.2 (a) (2)

Item 16.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 16.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

No person shall use, purchase, sell, or offer for sale any distillate fuel oil which has a sulfur content greater than the limit presented below. A log of the sulfur content in oil per delivery must be maintained on site for a minimum of five years after the date of the last entry.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.2 percent by weight
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

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Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 17: Compliance Demonstration
Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 225-1.8

Item 17.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 17.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

An owner or operator of a facility which purchases and fires coal and/or oil shall submit reports to the commissioner containing fuel analysis data, information on the quantity of the fuel received, burned, and results of any stack sampling, stack monitoring and any other procedures to ensure compliance with the provisions of 6 NYCRR Part 225-1. All records shall be available for a minimum of three years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 19: Compliance Demonstration
Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 227-1.3 (a)

Item 19.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 19.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test method 9 in Appendix A of 40 CFR 60.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Monitoring Frequency: DAILY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

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Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 21: Prior notice.
Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.8(d), NSPS Subpart A

Item 21.1:

The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

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

Condition 24: Enforceability.
Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.42c(i), NSPS Subpart Dc

Item 24.1:

This Condition applies to Emission Unit: 1-BOILR

Item 24.2:

The sulfur dioxide emission limits, percentage reductions, and fuel oil sulfur limitations shall apply at all times, including periods of startup, shutdown, and malfunction.

Condition 25: Compliance Demonstration
Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.43c(c), NSPS Subpart Dc

Item 25.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-BOILR

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 25.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

On and after the date on which the initial performance test is completed or required to be completed under §60.8 of this part, whichever date comes first, no owner or

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operator of an affected facility that combusts coal, wood or oil and has a heat input capacity of 30 million BTU per hour or greater shall cause to be discharged into the atmosphere from an affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.

Parameter Monitored: OPACITY

Upper Permit Limit: 20.0 percent

Reference Test Method: Method 9

Monitoring Frequency: DAILY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 26: Compliance Demonstration
Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 60.48c(f)(1), NSPS Subpart Dc

Item 26.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-BOILER

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 26.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Fuel supplier certification shall include the following information for distillate oil:

i) The name of the oil supplier, and

ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in §60.41c. 60-Dc 41c defines distillate oil as fuel that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, A standard Specification for Fuel Oils.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 28: Compliance Demonstration
Effective between the dates of 05/06/2004 and Permit Expiration Date

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Item 30.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 3-WWTRE

Item 30.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. Compliance with this requirement shall be determined by the facility owner/operator conducting a daily survey of visible emissions when the process is in operation. If any visible emissions are identified, corrective action is required. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 31: Emissions from new emission sources and/or modifications
Effective between the dates of 05/06/2004 and Permit Expiration Date**

Applicable Federal Requirement:6 NYCRR 212.4 (a)

Item 31.1:

This Condition applies to Emission Unit: 4-SLDGE

Item 31.2:

No person shall cause or allow emissions that exceed the applicable permissible emission rate as determined from Table 2, Table 3, or Table 4 of 6 NYCRR Part 212 for the environmental rating issued by the commissioner.

**Condition 32: Compliance Demonstration
Effective between the dates of 05/06/2004 and Permit Expiration Date**

Applicable Federal Requirement:6 NYCRR 212.6 (a)

Item 32.1:

The Compliance Demonstration activity will be performed for:

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Emission Unit: 4-SLDGE

Item 32.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. Compliance with this requirement shall be determined by the facility owner/operator conducting a daily survey of visible emissions when the process is in operation. If any visible emissions are identified, corrective action is required. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 34: Stage I and II requirements for tanks constructed, replaced, or substantially modified after June 27, 1987 Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 230.2 (d) (1)

Item 34.1:

This Condition applies to Emission Unit: 6-GASST

Item 34.2:

Stage I and Stage II vapor collection systems are required at any gasoline dispensing site located in the New York City Metropolitan Area which is constructed, replaced, or substantially modified after June 27, 1987, regardless of the annual gasoline throughput at the site.

This requirement does not apply for gasoline tanks with a capacity less than 550 gallons which are used exclusively for farm tractors used for agricultural purposes or for snowplowing.

Condition 35: Requirements for gasoline transport vehicles delivering to Stage I controlled dispensing sites. Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 230.2 (f)



Item 35.1:

This Condition applies to Emission Unit: 6-GASST

Item 35.2:

Owners and/or operators of gasoline transport vehicles and gasoline dispensing sites subject to stage I vapor collection or vapor control requirements must:

1. install all necessary stage I vapor collection and control systems, and make any modifications necessary to comply with the requirements;
2. provide adequate training and written instructions to the operator of the affected gasoline transport vehicle;
3. replace, repair, or modify any worn or ineffective component or design element to ensure the vapor-tight integrity of the stage I vapor collection and vapor control systems;
4. connect and ensure proper operation of the stage I vapor collection and control systems whenever gasoline is being loaded, unloaded or dispensed; and
5. connect the Stage I vapor collection hose before connecting the gasoline delivery hose to the gasoline transport vehicle, and disconnect the gasoline delivery hose before disconnecting the Stage I vapor collection hose from the gasoline transport vehicle.

Condition 36: Compliance Demonstration
Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 230.2 (g)

Item 36.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 6-GASST

Item 36.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Daily visual inspections of components of stage II vapor collection systems must be performed to ensure the integrity and efficiency of the system. Dispensers with defective stage II components must be removed from service, locked and sealed to prevent vapor loss from operational dispensers until approved replacement parts are installed. A log will be kept recording the results of the inspections. The following information will be recorded at a minimum:

1. Date of the inspection
2. Person performing the inspection

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3. Whether any deficiencies were observed and the nature of those deficiencies
4. Corrective action taken if any

Monitoring Frequency: DAILY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 37: Compliance Demonstration
Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 230.2 (k)

Item 37.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 6-GASST

Item 37.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Owners and/or operators of stage II systems must perform dynamic pressure tests at 5 year intervals after commencing operations. The back pressure during the dynamic back pressure tests must not exceed 0.45 inches of water column gauge at a flow rate of 60 cubic feet per hour.

Parameter Monitored: PRESSURE

Upper Permit Limit: 0.45 inches of water

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 38: Compliance Demonstration
Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 230.2 (k)

Item 38.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 6-GASST

Item 38.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL



DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Owners and/or operators of stage II systems must perform dynamic pressure tests at 5 year intervals after commencing operations. The back pressure during the dynamic back pressure tests must not exceed 0.95 inches of water column gauge at a flow rate of 100 cubic feet per hour.

Parameter Monitored: PRESSURE

Upper Permit Limit: 0.95 inches of water

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 39: Compliance Demonstration
Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 230.2 (k)

Item 39.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 6-GASST

Item 39.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners and/or operators of stage II systems must perform leak tests at 5 year intervals after commencing operations. The pressure in gasoline storage tanks must not fall below the values in Table 1 of Part 230.2(k)(2)(iii) after 5 minutes from an initial pressure of 10.0 inches of water column during a leak test.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 40: Compliance Demonstration
Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 230.2 (k)

Item 40.1:

The Compliance Demonstration activity will be performed for:



Emission Unit: 6-GASST

Item 40.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Owners and/or operators of stage II systems must perform liquid blockage tests at 5 year intervals after commencing operations. The back pressure during the liquid blockage tests must not exceed 0.03 inches of water column gauge above the dynamic back pressure test results for the system for flow rates of 60 and 100 cubic feet per hour.

Parameter Monitored: PRESSURE

Upper Permit Limit: 0.03 inches of water

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY



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

Where emission source owners and/or operators keep records pursuant to compliance with the operational flexibility requirements of 6 NYCRR Subpart 201-5.4(b)(1), and/or the emission capping requirements of 6 NYCRR Subparts 201-7.2(d), 201-7.3(f), 201-7.3(g), 201-7.3(h)(5), 201-7.3(i) and 201-7.3(j), the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Emission source owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department of receipt of the request.

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

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

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

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.



Condition 41: Contaminant List

Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable State Requirement:ECL 19-0301

Item 41.1:

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

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

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

CAS No: 0NY100-00-0
Name: HAP

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

CAS No: 0NY750-00-0
Name: CARBON DIOXIDE EQUIVALENTS

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

Condition 5-5: Unavoidable noncompliance and violations

Effective between the dates of 05/16/2011 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 201-1.4

Item 5-5.1:

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 43: Emission Unit Definition
Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 43.1(From Mod 4):

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

Emission Unit: 1-BOILR

Emission Unit Description:

THIS EMISSION UNIT CONSISTS OF THE PLANT'S NEW MAIN BUILDING BOILERS AND THE PLANT'S EXISTING DEWATERING BUILDING BOILERS. THE PURPOSE OF THESE BOILERS IS TO PROVIDE PROCESS HEAT, SPACE HEATING, AND HOT WATER TO THE ENTIRE FACILITY. FOUR NEW CLEAVER BROOKS CB200-750 BOILERS WILL REPLACE THE THREE EXISTING CLEAVER BROOKS CB200-500 BOILERS IN THE MAIN BUILDING. THE FOUR NEW CLEAVER BROOKS CB200-750 BOILERS (1NMB1, 1NMB2, 1NMB3, 1NMB4) EACH RATED 31.4 MMBTU PER HOUR ARE SCHEDULED TO BEGIN OPERATION



IN 2006. THE PRIMARY FUEL FOR THESE FOUR NEW BOILERS WILL BE NATURAL GAS WITH #2 FUEL OIL AS BACKUP. EMISSION FROM THESE BOILERS WILL BE EXHAUSTED TO ATMOSPHERE THROUGH TWO STACKS (1NMS1, 1NMS2), WHICH EACH STACK SERVING TWO BOILERS. THE THREE EXISTING CLEAVER BROOKS CB200-500 BOILERS (1MBB1, 1MBB2, 1MBB3) EACH RATED 20.9 MMBTU PER HOUR ARE SCHEDULED TO BE REMOVED IN 2007 AFTER THE FOUR NEW CLEAVER BROOKS CB200-750 BOILERS IN OPERATION. THESE THREE EXISTING BOILERS COULD BURN DIGESTER GAS AND NO. 2 FUEL OIL. EMISSION FROM THESE BOILERS IS EXHAUSTED TO ATMOSPHERE THROUGH ONE STACK (1MBS1). A TOTAL OF TWO PROCESSES ARE DEFINED FOR OPERATION OF THE MAIN BUILDING BOILERS: PROCESS MBG FOR OPERATION ON GASEOUS FUEL (NATURAL GAS FOR THE FOUR NEW BOILERS OR DIGESTER GAS/NATURAL GAS FOR THE THREE EXISTING BOILERS), AND PROCESS MBO FOR BACKUP OPERATION WITH NO. 2 FUEL OIL. THE DEWATERING BUILDING'S TWO EXISTING CLEAVER BROOKS CB200-200 BOILERS (1DBB1, 1DBB2) EACH RATED 8.4 MMBTU PER HOUR WILL CONTINUE TO OPERATE. THE PRIMARY FUEL FOR THESE BOILERS IS NATURAL GAS WITH NO. 2 FUEL OIL AS BACKUP. EMISSION FROM THESE TWO BOILERS ARE EXHAUSTED TO ATMOSPHERE THROUGH ONE STACK (1DWS1). A TOTAL OF TWO PROCESSES ARE DEFINED FOR OPERATION OF THE DEWATERING FACILITY BOILERS: PROCESS DBG FOR OPERATION ON GASEOUS FUEL (NATURAL GAS), AND PROCESS DBO FOR OPERATION ON NO. 2 FUEL OIL.

The plant will install a 350 hp contingent interim boiler during construction of the four (4) new main building 750 hp boilers. After the new 750 bhp boilers are available for operation, DEP will remove this contingent interim boiler from operation and keep it at the plant. This boiler will be used as a contingent interim boiler in case any of the Bowery Bay WPCP boilers in not available for operation in future, or be mobilized to other DEP facilities as a contingent interim boiler, in cases of boiler(s) or heat distribution system malfunction.

Building(s): OUTDOOR



Item 43.2(From Mod 1):

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

Emission Unit: 2-GENER

Emission Unit Description:

THIS EMISSION UNIT CONSISTS OF THE EXISTING GENERATOR SYSTEM. THE PURPOSE OF THE SYSTEM IS TO PROVIDE ELECTRICAL POWER BACK-UP TO THE ENTIRE FACILITY IN THE EVENT OF ELECTRICAL SUPPLY INTERRUPTION OR FAILURE, AND TO ALLOW PARTICIPATION IN THE CITY'S PEAK LOAD MANAGEMENT PROGRAM DURING THE SUMMER MONTHS. THE GENERATOR SYSTEM WILL REMAIN IN PLACE AND CONTINUE TO OPERATE AS DESCRIBED ABOVE. A SINGLE PROCESS IS DEFINED: OPERATION OF THE EXISTING GENERATORS ON NO. 2 FUEL OIL (EGO) FOR THE GENERATION OF ELECTRICITY. EMISSION SOURCES FOR THE ELECTRICITY GENERATION PROCESS INCLUDE TWO CATERPILLAR MODEL 3516A GENERATOR ENGINES (2ENG1, 2ENG2). EACH ENGINE IS RATED AT 1.75MW. ENGINE EMISSIONS ARE EXHAUSTED TO THE ATMOSPHERE THROUGH DEDICATED STACKS (2EGS1, 2EGS2).

Building(s): EGB

Item 43.3(From Mod 0):

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

Emission Unit: 3-WWTRE

Emission Unit Description:

THIS EMISSION UNIT CONSISTS OF THE EXISTING WASTEWATER TREATMENT SYSTEM. PROCESS STEPS INCLUDE RECEIPT, SCREENING, AND DISTRIBUTION (RSD); PRIMARY SETTLING (PRI); AERATION (AER); FINAL SETTLING (FIN); RESIDUALS HANDLING (RES); AND DISINFECTION (DIS). AN ADDITIONAL PROCESS WHICH SUPPORTS DISINFECTION INVOLVES THE STORAGE AND HANDLING OF SODIUM HYPOCHLORITE SOLUTION (HYP). THE WASTEWATER TREATMENT SYSTEM WILL REMAIN IN PLACE; HOWEVER, RESIDUALS HANDLING OPERATIONS, CURRENTLY PERFORMED AT SEVERAL LOCATIONS, WILL BE CENTRALIZED UPON COMPLETION OF THE NEW RESIDUALS HANDLING BUILDING. SUBSTANTIAL MECHANICAL AND HYDRAULIC IMPROVEMENTS WILL BE MADE, AND PROCESS CONTROL WILL BE AUTOMATED. EMISSION SOURCES (OR CONTROLS) FOR THE WASTEWATER RECEIPT, SCREENING, AND DISTRIBUTION PROCESS INCLUDE THE HIGH AND LOW-LEVEL PUMP STATION CHAMBERS AND BAR



SCREENS (3HPSC, 3LPSC), HIGH-AND-LOW LEVEL PUMP STATION VENTILATION SYSTEMS (3HPSV, 3LPSV), AND SOUTH AND NORTH PLANT RAW SEWAGE INFLUENT CHANNELS (3SICS, 3SICN). COLLECTIVELY, THESE EMISSION SOURCES AND CONTROLS ARE REFERRED TO AS THE PLANT HEADWORKS. THE HIGH-AND LOW-LEVEL PUMP STATIONS AND VENTILATION SYSTEMS ARE LOCATED IN THE MAIN BUILDING, AND THE INFLUENT CHANNELS ARE UNCOVERED AND OPEN TO THE ATMOSPHERE. EMISSIONS FROM THE HIGH-AND LOW-LEVEL PUMP STATION VENTILATION SYSTEM ARE EXHAUSTED TO THE ATMOSPHERE THROUGH DEDICATED VENTS (3HLV1, 3LLV1). EMISSION SOURCES FOR THE WASTEWATER PRIMARY SETTLING PROCESS INCLUDE NINE SOUTH PLANT AND SIX NORTH PLANT PRELIMINARY SETTLING TANKS (3PSTS, 3PSTN). EACH TANK IS UNCOVERED AND OPEN TO THE ATMOSPHERE. SCUM FROM THE PRELIMINARY SETTLING TANKS, WHICH IS CURRENTLY COLLECTED IN FOUR SCUM-COLLECTION PITS AND HAULED OFF-SITE FOR DISPOSAL, WILL BE PUMPED DIRECTLY TO THE RESIDUALS HANDLING BUILDING. EMISSION SOURCES FOR THE WASTEWATER AERATION PROCESS INCLUDE SIX SOUTH PLANT AND FOUR NORTH PLANT AERATION TANKS (3ATS, 3ATN). EACH TANK HAS FOUR PASSES, AND IS UNCOVERED AND OPEN TO THE ATMOSPHERE. AERATION TANK BIOLOGICAL ACTIVITY WILL BE INCREASED DUE TO IMPROVEMENTS TO BE MADE TO THE RETURN SLUDGE DISTRIBUTION SYSTEM. EMISSION SOURCES FOR THE WASTEWATER FINAL SETTLING PROCESS INCLUDE ELEVEN SOUTH PLANT AND SIX NORTH PLANT FINAL SETTLING TANKS (3FSTS, 3FSTN). EACH TANK IS UNCOVERED AND OPEN TO THE ATMOSPHERE. SCUM FROM THE FINAL SETTLING TANKS, WHICH IS CURRENTLY COLLECTED IN FOUR SCUM-COLLECTION PITS AND HAULED OFF-SITE FOR DISPOSAL, WILL BE PUMPED DIRECTLY TO THE RESIDUALS HANDLING BUILDING. EMISSION SOURCES (OR CONTROL LS) FOR THE RESIDUALS HANDLING PROCESS INCLUDE THE RESIDUALS HANDLING ITSELF (3RH) AND TWO WET-SCRUBBER ODOR-CONTROL SYSTEMS (3RHW1, 3RHW2), ONE OF WHICH WILL BE RESERVED FOR BACK-UP PURPOSES. UPON WET-SCRUBBER CONTROL, EMISSIONS FROM RESIDUALS HANDLING WILL BE EXHAUSTED TO THE ATMOSPHERE THROUGH DEDICATED STACKS (3CCT). EACH TANK IS UNCOVERED AND OPEN TO THE ATMOSPHERE. A SCUM-REMOVAL SYSTEM WILL BE ADDED TO THE



CHLORINE CONTACT TANKS. EMISSION SOURCES FOR THE SODIUM HYPOCHLORITE STORAGE AND HANDLING PROCESS INCLUDE FOUR, 10,000 GALLON PLASTIC STORAGE TANKS (3SHST) LOCATED IN THE CHLORINE BUILDING. EMISSIONS FROM THESE FOUR TANKS ARE PASSIVELY RELEASED TO THE ATMOSPHERE THROUGH DEDICATED VENT (3CBV1 THROUGH 3CBV4) EXTENDING THROUGH THE CHLORINE BUILDING ROOF. NO CHANGES WILL BE MADE TO THIS EMISSION SOURCE.

Building(s): CB
MAIN
OUTDOOR
RHB

Item 43.4(From Mod 0):

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

Emission Unit: 4-SLDGE

Emission Unit Description:

THIS EMISSION UNIT CONSISTS OF THE EXISTING SLUDGE TREATMENT SYSTEM. PROCESS STEPS INCLUDE RETURN SLUDGE PUMPING (RSP) SLUDGE DEGRITTING (DEG) SLUDGE THICKENING (THI), SLUDGE DIGESTION (DIG), AND SLUDGE DEWATERING (DEW). THIS SYSTEM WILL REMAIN IN PLACE; HOWEVER, DEGRITTING OPERATIONS WHICH CURRENTLY TAKE PLACE IN THE GRIT BUILDING WILL BE IMPROVED AND RELOCATED TO THE NEW RESIDUALS HANDLING BUILDING. SUBSTANTIAL MECHANICAL AND HYDRAULIC IMPROVEMENTS WILL BE MADE, AND PROCESS CONTROL WILL BE AUTOMATED. EMISSION SOURCES FOR THE RETURN SLUDGE PUMPING PROCESS INCLUDE THREE SOUTH PLANT AND TWO NORTH PLANT RETURN SLUDGE WELLS (4RSWS, 4RSWN). EACH WELL IS UNCOVERED AND OPEN TO THE ATMOSPHERE. IMPROVEMENTS TO THE RETURN SLUDGE PUMPING PROCESS WILL BE MADE TO OPTIMIZE THE RETURN OF ACTIVATED SLUDGE TO THE AERATION TANKS. EMISSION SOURCES (OR CONTROLS) FOR THE SLUDGE DEGRITTING PROCESS INCLUDE GRIT COLLECTION AND WASHING OPERATIONS (4GCW) AND GRIT BUILDING VENTILATION (4GBV). ALL EMISSIONS ARE PASSIVELY VENTED TO THE ATMOSPHERE THROUGH DOORS AND WINDOWS. EMISSIONS FROM THESE OPERATIONS UPON RELOCATION TO THE NEW RESIDUALS HANDLING BUILDING ARE ADDRESSED AS PART OF EMISSIONS UNIT 3. EMISSION SOURCES FOR THE SLUDGE THICKENING PROCESS



INCLUDE EIGHT SLUDGE THICKENING TANKS WHICH SERVE BOTH PLANTS. TWO SETS OF FOUR TANKS EACH (4STT1, 4STT2) WERE CONSTRUCTED AT DIFFERENT TIMES. EACH TANK IS UNCOVERED AND OPEN TO THE ATMOSPHERE. IMPROVEMENTS TO THE SLUDGE THICKENING PROCESS WILL BE MADE TO PREVENT THICKENER UPSETS AND REDUCE MALODOROUS EMISSIONS. THICKENER PUMPS AND GRINDERS WILL BE REPLACED, AND THE BALANCE BETWEEN SLUDGE INFLUENT AND WITHDRAWAL RATES WILL BE AUTOMATED. EMISSION SOURCES FOR THE SLUDGE DIGESTION PROCESS INCLUDE FOUR COVERED SLUDGE DIGESTER TANKS (4SDT) WHICH SERVE BOTH PLANTS. IT IS NOTED THAT FOUR OTHER TANKS ARE USED FOR TEMPORARY STORAGE OF SLUDGE PRIOR TO DEWATERING, BUT THESE SLUDGE STORAGE TANKS ARE COMPLETELY ENCLOSED AND ARE NOT SOURCES OF EMISSIONS. IMPROVEMENTS TO THE SLUDGE DIGESTION PROCESS INCLUDE THE CONVERSION OF TWO EXISTING SLUDGE STORAGE TANKS TO DIGESTER TANKS, BUT THIS MAY NOT BE COMPLETED WITHIN THE 5-YEAR PERMIT "WINDOW." EMISSION SOURCES (OR CONTROLS) FOR THE SLUDGE DEWATERING PROCESS INCLUDE THE SLUDGE DEWATERING ITSELF (4SD) AND FIVE SLUDGE DEWATERING BUILDING ODOR-CONTROL SYSTEMS. THREE OF THESE ODOR-CONTROL SYSTEMS ARE WET-SCRUBBER TYPES (4DBW1 THROUGH 4DBW3), ONE OF WHICH IS RESERVED FOR BACK-UP PURPOSES. THE REMAINING TWO ODOR-CONTROL SYSTEMS ARE TWO-STAGE TYPES - WET SCRUBBERS FOLLOWED BY ACTIVATED-CARBON (4DBC1, 4DBC2) - ONE OF WHICH IS AGAIN RESERVED FOR BACK-UP PURPOSES. UPON CONTROL, EMISSIONS FROM SLUDGE DEWATERING ARE EXHAUSTED TO THE ATMOSPHERE THROUGH DEDICATED STACKS (4DBS1 THROUGH 4DBS3 FOR THE SCRUBBER STACKS; 4DBS4, 4DBS5 FOR THE CARBON STACKS). NO CHANGES WILL BE MADE TO THIS EMISSION SOURCE.

Building(s): DEWATER
GB
RHB

Item 43.5(From Mod 5):

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

Emission Unit: 5-WGTRE

Emission Unit Description:

This emission unit consists of the existing waste-gas



treatment system. Process steps consist of digester-gas burning (DGB). This system will remain in place. Emission sources for the waste-gas burning process include two flares (5WGB1, 5WGB2). The waste gas delivered to the flares is produced in the sludge-digestion process. Flare emissions are exhausted through dedicated stacks (5FLS1, 5FLS2). Improvements to the waste-gas burning process include refurbishment of the flares. The plant will replace the two existing waste gas burners (emission sources 5WGB1 and 5WGB2 exhaust through emission points 5FLS1 and 5FLS2 respectively) with two new Varec 10" waste gas burners (emission sources NFLR1 and NFLR2 exhaust through emission points NFLRA and NFLRB respectively). One Varec 10" waste gas burner is for flaring excessive gas with the second burner as standby.

Building(s): EGB
OUTDOOR

Item 43.6(From Mod 0):

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

Emission Unit: 6-GASST

Emission Unit Description:

THIS EMISSION UNIT CONSISTS OF THE EXISTING GASOLINE STORAGE SYSTEM. PROCESS STEPS CONSIST OF GASOLINE STORAGE AND DISPENSING (GSD). THIS SYSTEM WILL REMAIN IN PLACE. EMISSION SOURCES FOR THE GASOLINE STORAGE PROCESS INCLUDE TWO 4000 GALLON GASOLINE DISPENSING TANKS (6GT1, 6GT2). THE GASOLINE IS STORED IN THESE TANKS AND DISPENSED TO PLANT MAINTENANCE VEHICLES AND EQUIPMENT. STAGE II VAPOR-COLLECTION SYSTEMS (6GTV1, 6GTV2) ARE INSTALLED ON EACH TANK, AND MINOR VOC EMISSIONS ARE EXHAUSTED THROUGH DEDICATED VENTS (6GSV1, 6GSV2).

Building(s): OUTDOOR

Condition 5-6: Visible Emissions Limited
Effective between the dates of 05/16/2011 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 211.2

Item 5-6.1:

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 45: Emission Point Definition By Emission Unit
Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 45.1(From Mod 0):

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

Emission Unit: 1-BOILR

Emission Point: 1DWS1
Height (ft.): 65 Diameter (in.): 15
NYTMN (km.): 4514.45 NYTME (km.): 593.446 Building: DEWATER

Emission Point: 1MBS1
Height (ft.): 71 Diameter (in.): 48
NYTMN (km.): 4514.571 NYTME (km.): 593.289 Building: MAIN

Emission Point: 1NMS1
Height (ft.): 71 Diameter (in.): 36
NYTMN (km.): 4514.537 NYTME (km.): 593.319 Building: MAIN

Emission Point: 1NMS2
Height (ft.): 71 Diameter (in.): 36
NYTMN (km.): 4514.535 NYTME (km.): 593.321 Building: MAIN

Item 45.2(From Mod 0):

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

Emission Unit: 2-GENER

Emission Point: 2EGS1
Height (ft.): 18 Diameter (in.): 24
NYTMN (km.): 4514.421 NYTME (km.): 593.38 Building: EGB

Emission Point: 2EGS2
Height (ft.): 18 Diameter (in.): 24
NYTMN (km.): 4514.423 NYTME (km.): 593.378 Building: EGB

Item 45.3(From Mod 0):

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

Emission Unit: 3-WWTRE

Emission Point: 3CBV1
Height (ft.): 22 Diameter (in.): 4
NYTMN (km.): 4514.714 NYTME (km.): 593.385 Building: CB

Emission Point: 3CBV2



Height (ft.): 22	Diameter (in.): 4	
NYTMN (km.): 4514.711	NYTME (km.): 593.385	Building: CB
Emission Point: 3CBV3		
Height (ft.): 22	Diameter (in.): 4	
NYTMN (km.): 4514.706	NYTME (km.): 593.385	Building: CB
Emission Point: 3CBV4		
Height (ft.): 22	Diameter (in.): 4	
NYTMN (km.): 4514.711	NYTME (km.): 593.382	Building: CB
Emission Point: 3HLV1		
Height (ft.): 31	Length (in.): 48	Width (in.): 20
NYTMN (km.): 4514.542	NYTME (km.): 593.333	Building: MAIN
Emission Point: 3LLV1		
Height (ft.): 2	Length (in.): 50	Width (in.): 28
NYTMN (km.): 4514.578	NYTME (km.): 593.264	Building: MAIN
Emission Point: 3RBS1		
Height (ft.): 70	Diameter (in.): 60	
NYTMN (km.): 4514.64	NYTME (km.): 593.326	Building: RHB
Emission Point: 3RBS2		
Height (ft.): 70	Diameter (in.): 60	
NYTMN (km.): 4514.635	NYTME (km.): 593.33	Building: RHB

Item 45.4(From Mod 0):

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

Emission Unit: 4-SLDGE		
Emission Point: 4DBS1		
Height (ft.): 65	Diameter (in.): 37	
NYTMN (km.): 4514.425	NYTME (km.): 593.421	Building: DEWATER
Emission Point: 4DBS2		
Height (ft.): 65	Diameter (in.): 37	
NYTMN (km.): 4514.436	NYTME (km.): 593.431	Building: DEWATER
Emission Point: 4DBS3		
Height (ft.): 65	Diameter (in.): 37	
NYTMN (km.): 4514.445	NYTME (km.): 593.437	Building: DEWATER
Emission Point: 4DBS4		
Height (ft.): 57	Diameter (in.): 10	
NYTMN (km.): 4514.419	NYTME (km.): 593.417	Building: DEWATER
Emission Point: 4DBS5		
Height (ft.): 57	Diameter (in.): 10	
NYTMN (km.): 4514.421	NYTME (km.): 593.418	Building: DEWATER



Item 45.5(From Mod 5):

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

Emission Unit: 5-WGTRE

Emission Point: NFLRA

Height (ft.): 15 Diameter (in.): 30
NYTMN (km.): 4514.47 NYTME (km.): 593.45 Building: OUTDOOR

Emission Point: NFLRB

Height (ft.): 15 Diameter (in.): 30
NYTMN (km.): 4514.47 NYTME (km.): 593.45 Building: OUTDOOR

Condition 46: Process Definition By Emission Unit
Effective between the dates of 05/06/2004 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 46.1(From Mod 1):

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

Emission Unit: 1-BOILR

Process: DBG Source Classification Code: 1-03-006-03

Process Description:

NATURAL GAS FIRED IN TWO EXISTING CLEAVER
BROOKS CB200-200 BOILERS (1DBB1, 1DBB2)
EACH RATED 8.4 MMBTU/HR. THE STATED ANNUAL
TOTAL THRUPUT RATE IS BASED ON THE DESIGNED
AVERAGE OPERATION OF THESE TWO EXISTING
BOILERS.

Emission Source/Control: 1DBB1 - Combustion

Design Capacity: 8.4 million Btu per hour

Emission Source/Control: 1DBB2 - Combustion

Design Capacity: 8.4 million Btu per hour

Item 46.2(From Mod 1):

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

Emission Unit: 1-BOILR

Process: DBO Source Classification Code: 1-03-005-01

Process Description:

#2 FUEL OIL FIRED IN TWO EXISTING CLEAVER
BROOKS CB200-200 BOILERS (1DBB1, 1DBB2)
EACH RATED 8.4 MMBTU/HR. THE STATED ANNUAL
TOTAL THRUPUT RATE IS BASED ON THE DESIGNED
AVERAGE OPERATION OF THESE TWO EXISTING
BOILERS.

Emission Source/Control: 1DBB1 - Combustion

Design Capacity: 8.4 million Btu per hour



Emission Source/Control: 1DBB2 - Combustion
Design Capacity: 8.4 million Btu per hour

Item 46.3(From Mod 1):

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

Emission Unit: 1-BOILR
Process: MBG Source Classification Code: 1-03-007-01
Process Description:

THIS PROCESS CONSISTS OF OPERATION OF THE MAIN BUILDING BOILERS ON GASEOUS FUELS (NATURAL GAS FOR THE FOUR NEW BOILERS) AND DIGESTER GAS/NATURAL GAS FOR THE THREE EXISTING BOILERS. THE THREE EXISTING CLEAVER BROOKS CB200-500 BOILERS (1MBB1, 1MBB2, 1MBB3) EACH RATED 20.9 MMBTU/HR AND BURN DIGESTER GAS OR NO. 2 FUEL OIL WILL BE REPLACED WITH FOUR NEW CLEAVER BROOKS CB200-750 BOILERS (1NMB1, 1NMB2, 1NMB3, 1NMB4) EACH RATED 31.4 MMBTU/HR AND BURN NATURAL GAS OR NO. 2 FUEL OIL AS BACKUP. THE STATED ANNUAL TOTAL THRUPUT RATE IS BASED ON THE DESIGNED AVERAGE OPERATION OF THE FOUR NEW BOILERS, WHICH IS EXPECTED TO BE MORE CONSERVATIVE THAN OPERATION OF THE THREE EXISTING TO BE REPLACED BOILERS.

Emission Source/Control: 1NMB1 - Combustion
Design Capacity: 31.4 million Btu per hour

Emission Source/Control: 1NMB2 - Combustion
Design Capacity: 31.4 million Btu per hour

Emission Source/Control: 1NMB3 - Combustion
Design Capacity: 31.4 million Btu per hour

Emission Source/Control: 1NMB4 - Combustion
Design Capacity: 31.4 million Btu per hour

Item 46.4(From Mod 4):

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

Emission Unit: 1-BOILR
Process: MBO Source Classification Code: 1-03-005-01
Process Description:

#2 FUEL OIL FIRED IN THE MAIN BUILDING BOILERS. THE THREE EXISTING CLEAVER BROOKS CB200-500 BOILERS (1MBB1, 1MBB2, 1MBB3) EACH RATED 20.9 MMBTU/HR AND BURN DIGESTER GAS AND NO. 2 FUEL OIL WILL BE REPLACED WITH FOUR NEW CLEAVER BROOKS DB200-750



BOILERS (1NMB1, 1NMB2, 1NMB3, 1NMB4) EACH RATED 31.4 MMBTU/HR AND BURN NATURAL GAS WITH NO. 2 FUEL OIL AS BACKUP. THE STATED ANNUAL TOTAL THRUPUT RATE IS BASED ON THE DESIGNED AVERAGE OPERATION OF THE FOUR NEW BOILERS, WHICH IS EXPECTED TO BE MORE CONSERVATIVE THAN OPERATION OF THE THREE EXISTING TO BE REPLACED BOILERS.

The plant will install a 350 hp contingent interim boiler during construction of the four (4) new main building 750 hp boilers. After the new 750 bhp boilers are available for operation, DEP will remove this contingent interim boiler from operation and keep it at the plant. This boiler will be used as a contingent interim boiler in case any of the Bowery Bay WPCP boilers in not available for operation in future, or be mobilized to other DEP facilities as a contingent interim boiler, in cases of boiler(s) or heat distribution system malfunction.

Emission Source/Control: CBLER - Combustion
Design Capacity: 14.6 million Btu per hour

Item 46.5(From Mod 1):

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

Emission Unit: 2-GENER
Process: EGO Source Classification Code: 2-04-003-02
Process Description:
THIS PROCESS CONSISTS OF OPERATION OF THE TWO EXISTING GENERATORS ON DIESEL (NO. 2) FUEL OIL. THE STATED ANNUAL TOTAL THRUPUT RATE IS ESTIMATED BASED ON ANNUAL AVERAGE OPERATION OF 112 HOURS FOR EACH GENERATOR ENGINE.

Emission Source/Control: 2ENG1 - Combustion
Design Capacity: 1,750 kilowatts

Emission Source/Control: 2ENG2 - Combustion
Design Capacity: 1,750 kilowatts

Item 46.6(From Mod 0):

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

Emission Unit: 3-WWTRE
Process: AER Source Classification Code: 5-01-007-31
Process Description:



THIS PROCESS CONSISTS OF WASTEWATER AERATION AND MARKS THE BEGINNING OF SECONDARY TREATMENT. WASTEWATER FROM THE PRELIMINARY SETTLING TANKS ENTERS THE AERATION TANKS WHERE AIR IS ADDED TO PROMOTE GROWTH OF BIOLOGICAL CULTURES WHICH, IN TURN, CONSUME DISSOLVED ORGANIC MATTER. ABOUT HALF OF THE EFFLUENT IS INTRODUCED INTO THE FIRST TANK PASS, WHILE THE REMAINDER IS ADDED DURING SUBSEQUENT PASSES FOR PROCESS MAXIMIZATION. REPOPULATION OF BIOLOGICAL CULTURES IS FACILITATED BY THE INTRODUCTION OF A PORTION OF THE RETURN ACTIVATED SLUDGE FROM THE FINAL SETTLING TANKS.

Emission Source/Control: 03ATN - Process
Design Capacity: 90,000,000 gallons per day

Emission Source/Control: 03ATS - Process
Design Capacity: 135,000,000 gallons per day

Item 46.7(From Mod 0):

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

Emission Unit: 3-WWTRE
Process: DIS Source Classification Code: 5-01-007-60
Process Description:

THIS PROCESS CONSISTS OF WASTEWATER DISINFECTION (ALSO REFERRED TO AS CHLORINATION). WASTEWATER FROM THE FINAL SETTLING TANKS (SECONDARY TREATMENT) OR THE PRELIMINARY SETTLING TANKS (PRIMARY TREATMENT DURING EXCESSIVE WET-FLOW CONDITIONS) ENTERS THE CHLORINE CONTACT TANKS, WHERE SODIUM HYPOCHLORITE IS ADDED TO CONTROL BACTERIA. THE STATED TOTAL THROUGHPUT RATES (BOTH HOURLY AND ANNUAL) REFLECT THE PLANTS DESIGN CAPACITY FOR PRIMARY WASTEWATER TREATMENT (300 MGD).

Emission Source/Control: 03CCT - Process
Design Capacity: 300,000,000 gallons per day

Item 46.8(From Mod 0):

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

Emission Unit: 3-WWTRE
Process: FIN Source Classification Code: 5-01-007-40
Process Description:

THIS PROCESS CONSISTS OF WASTEWATER FINAL SETTLING WHICH IS PART OF SECONDARY



TREATMENT. WASTEWATER FROM THE AERATION TANKS ENTERS THE FINAL SETTLING TANKS WHERE ORGANIC FLOC PRODUCED IN THE AERATION PROCESS IS ALLOWED TO SETTLE TO THE BOTTOM, AND SCUM AND OTHER LIGHTER SOLIDS ARE SKIMMED FROM THE TOP. MOST OF THE ACTIVATED SLUDGE, WHICH IS CREATED DURING CONCENTRATION OF THE COLLECTED ORGANIC FLOC, IS PUMPED TO THE SLUDGE THICKENERS, WHILE A PORTION IS RETURNED TO THE AERATION TANKS TO MAINTAIN A SUFFICIENT MICROORGANISM POPULATION. THE STATED TOTAL THROUGHPUT RATES (BOTH HOURLY AND ANNUAL) REFLECT THE PLANT'S DESIGN CAPACITY FOR SECONDARY WASTEWATER TREATMENT (225 MGD).

Emission Source/Control: 3FSTN - Process
Design Capacity: 90,000,000 gallons per day

Emission Source/Control: 3FSTS - Process
Design Capacity: 135,000,000 gallons per day

Item 46.9(From Mod 0):

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

Emission Unit: 3-WWTRE
Process: HYP Source Classification Code: 5-01-007-60
Process Description:

THIS SUPPORT PROCESS CONSISTS OF THE STORAGE AND HANDLING OF SODIUM HYPOCHLORITE SOLUTION. A 15 PERCENT SODIUM HYPOCHLORIDE SOLUTION IS DELIVERED FROM THE STORAGE TANKS TO THE CHLORINE CONTACT TANKS USING AN AUTOMATED FEED-RATE CONTROL SYSTEM. THE FEED RATE IS AUTOMATICALLY ADJUSTED BASED ON A PRE-SET LEVEL OF CHLORINE RESIDUE MONITORED IN THE CONTACT TANK EFFLUENT. THIS IS ACCOMPLISHED USING REAL-TIME FEEDBACK TELEMETRY FROM THE CONTINUOUS CHLORINE ANALYZERS. THE STATED TOTAL THROUGHPUT RATES (BOTH HOURLY AND ANNUAL) REFLECT THE PLANT'S DESIGN CAPACITY FOR PRIMARY WASTEWATER TREATMENT (300 MGD).

Emission Source/Control: 3SHST - Process
Design Capacity: 40,000 gallons

Item 46.10(From Mod 0):

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

Emission Unit: 3-WWTRE
Process: PRI Source Classification Code: 5-01-007-20



Process Description:

THIS PROCESS CONSISTS OF WASTEWATER PRIMARY SETTLING. WASTEWATER FROM THE INFLUENT CHANNELS IS DELIVERED TO THE PRELIMINARY SETTLING TANKS WHERE HEAVY SOLIDS ARE ALLOWED TO SETTLE TO THE BOTTOM AND SCUM AND OTHER FLOATABLE MATERIALS ARE SKIMMED FROM THE TOP. THE SLUDGE COLLECTED FROM THE TANK BOTTOMS IS PUMPED TO THE SLUDGE DEGRITTERS (WHERE ADDITIONAL SOLIDS ARE REMOVED) BEFORE BEING PUMPED TO THE SLUDGE THICKENERS (SLUDGE DEGRITTING AND THICKENING IS ADDRESSED WITHIN EMISSION UNIT 4). THE STATED TOTAL THROUGHPUT RATES (BOTH HOURLY AND ANNUAL) REFLECT THE PLANT'S DESIGN CAPACITY FOR PRIMARY WASTEWATER TREATMENT (300 MGD).

Emission Source/Control: 3PSTN - Process
Design Capacity: 120,000,000 gallons per day

Emission Source/Control: 3PSTS - Process
Design Capacity: 180,000,000 gallons per day

Item 46.11(From Mod 0):

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

Emission Unit: 3-WWTRE

Process: RES

Source Classification Code: 5-01-007-99

Process Description:

THIS PROCESS CONSISTS OF RESIDUALS HANDLING, AND INCLUDES SCREENINGS WASHING AND COMPACTING, GRIT SEPARATION AND WASHING, AND SCUM CONCENTRATION AND SUBSTRATE LIQUID SEPARATION. TREATED SCREENING, GRIT, AND SCUM WILL BE TRANSPORTED OFF-SITE FOR DISPOSAL, AND THE SCREENINGS AND GRIT WASHWATER AND SUBSTRATE LIQUID WILL BE RETURNED TO THE PLANT HEADWORKS. THE STATED TOTAL THROUGHPUT RATES (BOTH HOURLY AND ANNUAL) REFLECT THE PLANT'S DESIGN CAPACITY FOR RESIDUAL HANDLING (470 CUBIC FEET PER DAY).

Emission Source/Control: 3RHW1 - Control
Control Type: WET SCRUBBER

Emission Source/Control: 3RHW2 - Control
Control Type: WET SCRUBBER

Emission Source/Control: 003RH - Process
Design Capacity: 470 cubic feet per day



Item 46.12(From Mod 0):

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

Emission Unit: 3-WWTRE

Process: RSD

Source Classification Code: 5-01-007-07

Process Description:

THIS PROCESS CONSISTS OF WASTEWATER RECEIPT SCREENING, AND DISTRIBUTION. WASTEWATER ENTERS THE PLANT THROUGH TWO INTERCEPTORS (HIGH-AND LOW-LEVEL), AND THEN PASSES THROUGH A SERIES OF BAR SCREENS WHERE LARGE FLOATABLE OBJECTS ARE REMOVED. EACH WASTEWATER R STREAM ENTERS A CORRESPONDING WET WELL FROM WHICH IT IS PUMPED TO THE DIVISION STRUCTURE, WHERE MORE SCREENING TAKES PLACE AND THE TWO STREAMS ARE COMBINED. THE WASTEWATER THEN FLOWS FROM THE DIVISION STRUCTURE INTO A SERIES OF SOUTH AND NORTH PLANT IN FLUENT CHANNELS WHERE IT IS DISTRIBUTED TO EACH PRELIMINARY SETTLING TANK. THE STATED TOTAL THRUPUT RATES (BOTH HOURLY AND ANNUAL) REFLECT THE PLANT'S DESIGN CAPACITY FOR PRIMARY WASTEWATER TREATMENT (300 MGD).

Emission Source/Control: 3HPSC - Process

Design Capacity: 160,000,000 gallons per day

Emission Source/Control: 3HPSV - Process

Design Capacity: 3,000 cubic feet per minute

Emission Source/Control: 3LPSC - Process

Design Capacity: 140,000,000 gallons per day

Emission Source/Control: 3LPSV - Process

Design Capacity: 3,600 cubic feet per minute

Item 46.13(From Mod 0):

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

Emission Unit: 4-SLDGE

Process: DEG

Source Classification Code: 5-01-007-99

Process Description:

THIS PROCESS CONSISTS OF SLUDGE DEGRITTING. SLUDGE PUMPED TO THE GRIT BUILDING FROM THE PRELIMINARY SETTLING TANKS ENTERS CYCLONE SEPARATORS WHERE THE GRIT IS ISOLATED. THE GRIT IS THEN WASHED AND TRANSPORTED OFF-SITE FOR DISPOSAL. THE STATED THRUPUT R ATES (BOTH HOURLY AND



ANNUAL) REFLECT THE PLANT'S DESIGN CAPACITY FOR SLUDGE DEGRITTING (347 CUBIC FEET PER DAY).

Emission Source/Control: 04GBV - Process
Design Capacity: 2,100 cubic feet per minute

Emission Source/Control: 04GCW - Process
Design Capacity: 347 cubic feet per day

Item 46.14(From Mod 0):

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

Emission Unit: 4-SLDGE
Process: DEW Source Classification Code: 5-01-007-92
Process Description:

THIS PROCESS CONSISTS OF SLUDGE DEWATERING. SLUDGE FROM THE SLUDGE DIGESTERS AND SLUDGE STORAGE TANKS IS PUMPED TO THE DEWATERING BUILDING WHERE THE LIQUID CENTRATE IS SEPARATED FROM THE DIGESTED SLUDGE BY MEANS OF CENTRIFUGES. THE DEWATERED SLUDGE IS TRANSPORTED OFF-SITE FOR BENEFICIAL REUSE APPLICATION (PELLETIZED FERTILIZER PRODUCTION), AND THE LIQUID CENTRATE IS RETURNED TO THE AERATION TANKS. THE STATED TOTAL THRUPUT RATES (BOTH HOURLY AND ANNUAL) REFLECT THE PLANT'S DESIGN CAPACITY FOR SLUDGE DEWATERING (0.5 MGD).

Emission Source/Control: 4DBC1 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: 4DBC2 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: 4DBW1 - Control
Control Type: WET SCRUBBER

Emission Source/Control: 4DBW2 - Control
Control Type: WET SCRUBBER

Emission Source/Control: 4DBW3 - Control
Control Type: WET SCRUBBER

Emission Source/Control: 004SD - Process
Design Capacity: 112,500 pounds per day

Item 46.15(From Mod 0):

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



Emission Unit: 4-SLDGE
Process: DIG Source Classification Code: 5-01-007-81

Process Description:
THIS PROCESS CONSISTS OF SLUDGE DIGESTION. THICKENED SLUDGE FROM THE SLUDGE THICKENERS IS PUMPED TO THE DIGESTERS WHERE ANAEROBIC DIGESTION OCCURS. DIGESTER GAS IS GENERATED DURING THIS PROCESS. THE STATED TOTAL THUPUT RATES (BOTH HOURLY AND ANNUAL) R EFLECT THE PLANT'S DESIGN CAPACITY FOR SLUDGE DIGESTION (0.5 MGD).

Emission Source/Control: 04SDT - Process
Design Capacity: 4,000,000 gallons per day

Item 46.16(From Mod 0):

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

Emission Unit: 4-SLDGE
Process: RSP Source Classification Code: 5-01-007-19

Process Description:
THIS PROCESS CONSISTS OF RETURN SLUDGE PUMPING. ACTIVATED SLUDGE FROM THE FINAL SETTLING TANKS IS RETURNED, VIA PUMPING FROM A SUBSURFACE WET-WELL COLLECTION SYSTEM, TO BOTH THE SLUDGE THICKENERS AND AERATION TANKS. THE STATED TOTAL THRUPUT RATES (BOTH HOURLY AND ANNUAL) REFLECT THE PLANT'S DESIGN CAPACITY FOR RETURN SLUDGE PUMPING (150 MGD).

Emission Source/Control: 4RSWN - Process
Design Capacity: 60,000,000 gallons per day

Emission Source/Control: 4RSWS - Process
Design Capacity: 90,000,000 gallons per day

Item 46.17(From Mod 0):

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

Emission Unit: 4-SLDGE
Process: THI Source Classification Code: 5-01-007-71

Process Description:
THIS PROCESS CONSISTS OF SLUDGE THICKENING. DEGRITTED SLUDGE FROM THE PRELIMINARY SETTLING TANKS AND ACTIVATED SLUDGE FROM THE FINAL SETTLING TANKS ARE PUMPED TO CYLINDRICAL, GRAVITY-TYPE SLUDGE THICKENERS WHERE SLUDGE THICKENING OCCURS. REMOVED AND OVE RFLOW WASTEWATER IS RETURNED TO THE DIVISION STRUCTURE. THE STATED TOTAL THUPUT RATES (BOTH HOURLY AND



ANNUAL) REFLECT THE PLANT'S DESIGN CAPACITY
FOR SLUDGE THICKENING (0.5 MGD).

Emission Source/Control: 4STT1 - Process
Design Capacity: 1,000,000 gallons per day

Emission Source/Control: 4STT2 - Process
Design Capacity: 2,000,000 gallons per day

Item 46.18(From Mod 5):

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

Emission Unit: 5-WGTRE
Process: DGB Source Classification Code: 5-01-007-89
Process Description:

Burning digester gas in flares. One of two Varec 10"
waste gas burners is for flaring excessive digester gas
with the second burner as standby.

Emission Source/Control: NFLR1 - Combustion
Design Capacity: 90 million Btu per hour

Emission Source/Control: NFLR2 - Combustion
Design Capacity: 90 million BTUs per hour

Item 46.19(From Mod 0):

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

Emission Unit: 6-GASST
Process: GSD Source Classification Code: 4-06-004-99
Process Description:

THIS PROCESS CONSISTS OF GASOLINE STORAGE
AND DISPENSING. THE STATED ANNUAL TOTAL
THRUPUT RATE IS ESTIMATED BASED ON REVIEW
OF ACTUAL FUEL-USE RECORDS BETWEEN 1997 AND
2002.

Emission Source/Control: 06GT1 - Process
Design Capacity: 4 1000 gallons

Emission Source/Control: 06GT2 - Process
Design Capacity: 4 1000 gallons

