

Facility DEC ID: 914480012

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 9-1448-00012/00013
Effective Date:

Expiration Date:

Permit Issued To:ERIE COUNTY
95 FRANKLIN ST
BUFFALO, NY 14202-3904

Contact: JOSEPH L FIEGL
ERIE COUNTY DEP/DSM
95 FRANKLIN ST RM 1034
BUFFALO, NY 14202
(716) 858-8383

Facility: ECSD NO 3 SOUTHTOWNS WATER RESOURCE RECOVERY FACILITY
3690 LAKESHORE RD
HAMBURG, NY 14219

Contact: KEVIN KAMINSKI
SOUTHTOWNS STP
3690 LAKE SHORE RD
BUFFALO, NY 14219
(716) 823-8188

Description:

This is a new Air Title V permit under DEC ID: 9-1448-00012 issued to Erie County for the Southtowns Water Resource Recovery Facility (Southtowns WRRF), a Publicly Owned Treatment Works (POTW). Southtowns WRRF is required to obtain a Title V permit under 40 CFR 60 Subpart M - Emission Guidelines and Compliance Times for Existing Sewage Sludge Incineration Units. The facility previously operated under an Air State Facility Permit.

Sewage sludge generated by the wastewater treatment processes at this POTW is disposed of through incineration in two identical fluidized bed incinerators (FBIs) that use ultralow sulfur diesel fuel as an auxiliary fuel source. The FBI units were built in 1980. The FBIs are hot wind-box design with combustion air preheaters. Exhaust from each FBI is controlled by an associated air pollution control system consisting of a multistage wet scrubber and a mercury control system. The wet scrubber system is interlocked with the associated FBI to prevent combustion of sewage sludge without control of emissions. Ash collected from each wet scrubber system is pumped to an ash separation tank. The water removed from the ash is sent to the plant headworks. The dewatered ash is pumped to a holding cell to dry and then disposed of at a landfill.

This Air Title V permit regulates emissions from Emission Unit (EU) 0-INCIN, which contains two fluidized bed sewage sludge incinerators, identified as Emission Source

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(ES) XINCI and ES YINCI. Emissions generated by ES XINCI and ES YINCI are controlled by a wet scrubber system consisting of a venturi scrubber and impingement plate scrubber in series, identified as Emission Source Control (ESC) XSCRB and ESC XIMPL and ESC YSCRB and YIMPL, respectively. The mercury control system, located downstream from each wet scrubber system, consists of a mercury scrubbing stage, a mist eliminator (ME) stage and spray lances. The mercury scrubbing stage contains four modules, in series, containing pleated sorbent polymer composite (SPC) material to maximize contact with the gas stream. Mercury is permanently removed from the gas stream through chemisorption, a chemical reaction between the mercury and the SPC media.

The ME stage, installed before the mercury scrubbing stage, is comprised of a mesh mist eliminator pad to remove any remaining entrained water droplets contained in the gas stream before entering the SPC modules. The spray lances are used to intermittently irrigate and wash the ME and to clean the SPC modules. The mercury control systems are identified as ESC XMERC (ES XINCI) and ESC YMERC (ES YINCI). Exhaust from ESC XMERC and ESC YMERC exit to the atmosphere through emission point (EP) XSTAK and EP YSTAK, respectively.

Facilities with fluidized bed sewage sludge incinerators are subject to the emission limits in Table 2 of 40 CFR 60 Subpart M and are to conduct annual stack testing to demonstrate compliance.

Southtowns WRRF has demonstrated with annual stack testing that emissions of contaminants regulated under Subpart M are below 75 % of the Table 2 limits. Per 40 CFR 60.5230(I), Southtowns WRRF is approved to test Subpart M contaminants every third year. The contaminants regulated under 40 CFR 60 Subpart M are cadmium, lead, mercury, sulfur dioxide (SO₂), oxides of nitrogen (NO_x), carbon monoxide (CO), dioxins/furans (PCDD/PCDF), hydrogen chloride (HCl) and particulates (PM). Monitoring conditions contained in this permit ensure compliance with the limits specified for each of these contaminants.

In accordance with 40 CFR 60 Subpart M, Southtowns WRRF must operate the FBIs, wet scrubber systems, and mercury control systems within set limits. Operating limits include minimum pressure drop through the wet scrubber systems, minimum venturi and impingement tray scrubber liquid flow rates, minimum pH of the scrubber liquid at the wet scrubber outlets, minimum FBI combustion chamber temperatures, maximum pressure drop through the mercury adsorption modules, and maximum working temperature of the mercury modules.

The operating limits for the FBIs and wet scrubber systems are established during each performance test and take effect once compliance with the pollutant limits and standards has been demonstrated.

An Alternative Monitoring Plan (AMP) petition for the control of mercury and dioxins/furans emissions regulated under 40 CFR Subpart M was approved by EPA on May 15, 2025. The facility shall follow the monitoring requirements established in the approved AMP. Compliance with the differential pressure across the wet scrubber and combustion bed temperature operating limits will show demonstrate

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appropriate control of dioxins/furans, as established in the AMP. Control of mercury is achieved by the SPC module system. Southtowns WRRF will demonstrate appropriate operation of the mercury removal system by monitoring temperature downstream of the modules, differential pressure across the modules, and mercury loading of the SPC sheets that makes up the modules. In addition to sampling the SPC material for mercury mass loading, a screening-level procedure shall be conducted during each sampling event to estimate the removal efficiency of the module system and the concentration of mercury at the outlet of the modules.

Monitoring conditions in the ATV permit for operation and maintenance of the multistage wet scrubbers also ensure compliance with 40 CFR 60 Subpart O, particulate and opacity standards. Wet scrubber differential pressure, oxygen content of the exhaust gas, sludge feed rate and sludge characteristics are monitored in accordance with this rule.

The NESHAPs, 40 CFR Part 61 Subpart C and Subpart E, limit beryllium and mercury emissions from incinerators. Continuous compliance with these limits is demonstrated by sampling and analyzing the sludge for beryllium and mercury content once every other month. If the Southtowns WRRF FBI units are unable to process sewage sludge in compliance with applicable requirements, alternate methods of sewage sludge disposal must be used.

Emissions from the fluidized bed sewage sludge incineration process are subject to the requirements of 6 NYCRR Part 212. Technical review of the high toxicity air contaminants (HTACs) and non-HTACs emitted by this process was conducted in accordance with NYSDEC DAR-1 Guidelines for the Evaluation and Control of Ambient Air Contaminants under Part 212. Since each fluidized bed incinerator is interlocked with the associated wet scrubber, the Part 212 evaluation considered each FBI and wet scrubber system as one process emission source. Based on the results of the Part 212 evaluation, the potential health and environmental impacts from all contaminants evaluated are acceptable and compliant with 6 NYCRR 212 requirements. The contaminants regulated under 40 CFR 60 Subpart M demonstrate compliance with 6 NYCRR 212 through compliance with this NSPS. Based on results from performance tests, beryllium and mercury, both have annual actual emissions that are less than the mass emission limits (MEL) specified under 212-2.2 Table 2 – High Toxicity Air Contaminant List, demonstrating compliance with 6 NYCRR 212 requirements. Mercury emissions are also less than the persistent and bio accumulative (PB) trigger. Since the removal efficiency of the mercury adsorption modules is variable, annual actual emissions of mercury must be tracked and compared to their MEL to demonstrate continuous compliance with 6 NYCRR 212 requirements. Beryllium was included in the 2016, 2017, 2018, and 2019 performance stack tests. The removal rate for beryllium ranged between 99.8% -100%. AerScreen analysis of these test results showed that predicted maximum offsite concentrations are well below the annual guideline concentration (AGC) for beryllium. Emission rate potentials for arsenic, chromium, nickel, copper, selenium, tin, and zinc were calculated using stack

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test data from performance tests for 40 CFR 60 Subpart M after control. Aluminum, barium and manganese emissions were derived from AP-42 emission factors for fluidized bed sewage sludge incinerators controlled by venturi and impingement plate scrubbers in series. HTACs were assigned an environmental rating of A and non-HTACs were assigned an environmental rating of B. An air quality analysis of the HTAC and non-HTAC emissions using AerScreen showed that the predicted maximum offsite concentration of each contaminant is less than the applicable short-term and annual guideline concentrations (SGC/AGC) in compliance with 6 NYCRR Part 212-2.3(b), Table 4 - Degree of Air Cleaning Required for Non-Criteria Air Contaminants, for the environmental rating assigned to each contaminant. Chromium (VI), a high toxicity air contaminant (HTAC) listed in Table 2 of 6 NYCRR 212-2.2, has a Mass Emission Limit (MEL) of 0.1 pound per year (lb/yr) total from all process emission sources. Calculations from the 2019 stack test indicate that the Southtowns WRRF emissions were well below the MEL. The total annual mass emissions of Cr(VI) shall be calculated from sludge samples and compared to the 0.1 pound per year MEL. If the total annual mass emissions of Cr(VI) do not exceed 0.1 pound, ECSD No 3 Southtowns WRRF will have demonstrated compliance with Part 212 requirements.

The fluidized bed sewage sludge incineration process is also subject to the Clean Water Act Part 503 regulations which regulates disposal of sewage sludge. 40 CFR 503 Subpart E regulates incineration of sludge and requires the use of a Hydrocarbon Analyzer to determine compliance with the 100 ppm as propane standard. Instruments that continuously measure and record stack oxygen content, moisture content and temperature are also required. 40 CFR Part 503 Subpart E also regulates emissions of arsenic, beryllium, cadmium, chromium, mercury, lead and nickel from the sewage sludge incineration process. Stack testing and air dispersion modeling is required to determine the impact of heavy metal emissions. The dispersion factor, derived from the air dispersion model, is used to determine pollutant limits for arsenic, cadmium, chromium, lead and nickel in the sewage sludge. Bi-monthly sampling of the sewage sludge for metals is required to verify compliance with the pollutant limits. Beryllium and mercury emissions are regulated under 40 CFR Part 503 Subpart E through compliance with 40 CFR Part 61 Subpart C and Subpart E, respectively. Stack testing is required for all regulated metals once per term of permit. Annual reports summarizing the information collected to determine compliance with this rule are due by February 19 of each year. All 40 CFR Part 503 requirements are contained in the DEC portion of this Air Title V permit.

This facility operates stationary internal combustion engines for emergency power generation that are applicable to 40 CFR 60 Subpart III. The facility also operates emergency power engines associated with screw pumps that were constructed before 2002 and are applicable to 40 CFR 63 Subpart ZZZZ. The facility must comply with applicable portions of 40 CFR 60 Subpart III and 40 CFR 63 Subpart ZZZZ.

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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: MICHELLE R WOZNICK
 NYSDEC - REGION 9
 700 DELAWARE AVE
 BUFFALO, NY 14209

Authorized Signature: _____ Date: ___ / ___ / _____

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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.

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DEC GENERAL CONDITIONS

**** General Provisions ****

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

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department**Applicable State Requirement: ECL 19-0305****Item 1.1:**

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

Item 1.2:

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

Item 1.3:

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

Condition 2: Relationship of this Permit to Other Department Orders and Determinations**Applicable State Requirement: ECL 3-0301 (2) (m)****Item 2.1:**

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

Condition 3: Applications for permit renewals, modifications and transfers**Applicable State Requirement: 6 NYCRR 621.11****Item 3.1:**

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

Item 3.2:

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

Item 3.3

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

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Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

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

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

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

Condition 5: Submission of application for permit modification or renewal-REGION 9 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 9 Headquarters
Division of Environmental Permits
700 Delaware Ave.,
Buffalo, NY 14209
(716) 851-7130

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DEC SPECIAL CONDITIONS

Condition 6: General Provisions

Applicable State Requirement: 40 CFR Part 503, Subpart A

Item 6.1:

40 CFR 503 establishes standards, which consist of general requirements, pollutant limits, management practices, and operational standards for the final use or disposal of sewage sludge generated during the treatment of domestic sewage in a treatment works. Subpart A specifies the general provisions for 40 CFR 503. Southtowns Water Resource Recovery Facility is responsible for complying with all sections contained in this Subpart that apply to the incineration of sewage sludge, including collecting representative sewage sludge samples, analyzing the samples using an approved method for inorganic pollutants (EPA Method SW-846) and total solids (SM2540), and reviewing the general definitions. In accordance with §503.5, on a case-by-case basis, the permitting authority may impose requirements for the use or disposal of sewage sludge in addition to or more stringent than the requirements in this part when necessary to protect public health and the environment from any adverse effect of a pollutant in the sewage sludge.

Condition 7: Incineration of Sewage Sludge

Applicable State Requirement: 40 CFR Part 503, Subpart E

Item 7.1:

Southtowns Water Resource Recovery Facility is responsible for complying with all requirements specified in 40 CFR 503 Subpart E, including pollutant limits for seven metals, air dispersion modeling, biosolids sampling and analysis, performance testing, operational standard/limit for hydrocarbons, management practices, monitoring requirements, frequency of monitoring, recordkeeping and reporting. Special definitions are also specified in this subpart. The pollutants regulated under 40 CFR 503 are lead (CAS No. 007439-92-1), mercury (CAS No. 007439-97-6), nickel (CAS No. 007440-02-0), beryllium (CAS No. 007440-41-7), cadmium (CAS No. 007440-43-9), chromium (CAS No. 007440-47-3), arsenic (CAS No. 007440-38-2), and volatile organic compounds (CAS No. 0NY998-00-0).

Condition 8: Pollutant Limits for the Incineration of Sewage Sludge

Applicable State Requirement: 40 CFR 503.43

Item 8.1:

The facility shall not exceed the pollutant limits established in 40 CFR Part 503.43 including:

- (a) The National Emission Standard for beryllium in Subpart C of 40 CFR 61.
- (b) The National Emission Standard for mercury in Subpart E of 40 CFR 61.
- (c) The average daily concentration for lead in sewage sludge fed to a sewage sludge incinerator shall not exceed the concentration calculated using Equation (4).

$$C = [0.1 \times \text{NAAQS} \times 86,400] / [\text{DF} \times (1 - \text{CE}) \times \text{SF}] \quad \text{Eq. (4)}$$

Where:

C = Average daily concentration of lead in sewage sludge (mg/kg, dry weight basis).

NAAQS = current National Ambient Air Quality Standard for lead in micrograms per cubic meter = 0.15 ug/m³ (eff. 1/12/2009)

DF = Dispersion factor in micrograms per cubic meter per gram per second.

CE = Sewage sludge incinerator control efficiency for lead in hundredths.

SF = Sewage sludge feed rate in metric tons per day (dry weight basis).

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(d) The average daily concentration for arsenic, cadmium, chromium, and nickel in sewage sludge fed to a sewage sludge incinerator each shall not exceed the concentration calculated using equation (5).

$$C = [RSC \times 86,400] / [DF \times (1-CE) \times SF] \qquad \text{Eq. (5)}$$

Where:

- C = Average daily concentration of arsenic, cadmium, chromium, or nickel in sewage sludge.
- CE = Sewage sludge incinerator control efficiency for arsenic, cadmium, chromium, or nickel in hundredths.
- DF = Dispersion factor in micrograms per cubic meter per gram per second.
- RSC = Risk specific concentration for arsenic, cadmium, chromium, or nickel in micrograms per cubic meter.
- SF = Sewage sludge feed rate in metric tons per day (dry weight basis).

At a minimum, performance tests shall be conducted in accordance with 40 CFR 503 requirements at least once during the term of this permit or upon request by the USEPA and/or NYSDEC.

Condition 9: Total Hydrocarbon Continuous Emission Monitor Requirement - Operational

Standard
Applicable State Requirement: 40 CFR 503.44

Item 9.1:

The monthly average concentration for total hydrocarbons in the exit gas from a sewage sludge incinerator stack shall not exceed 100 parts per million on a volumetric basis. The monthly average concentration shall be corrected for zero percent moisture and seven percent oxygen using the correction factors established in 40 CFR 503.44(a) and (b).

Condition 10: Management Practices for the Incineration of Sewage Sludge
Applicable State Requirement: 40 CFR 503.45

Item 10.1:

The facility shall install, calibrate, operate, and maintain the proper instruments required by the management practices established in 40 CFR 503.45(a) - (h).
 The facility shall operate instruments that continuously measure and record the total hydrocarbons concentration, oxygen concentration, and moisture content in the sewage sludge incinerator stack exit gas.
 The facility shall operate an instrument that continuously measures and records combustion temperatures within the incinerator. Operation of a sewage sludge incinerator shall not cause the operating combustion temperature for the sewage sludge incinerator to exceed the performance test combustion temperature by more than 20 percent.

Condition 11: Frequency of monitoring for arsenic, cadmium, chromium, lead and nickel in sewage-sludge
Applicable State Requirement: 40 CFR 503.46

Item 11.1:

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The facility shall follow the frequency of monitoring established in 40 CFR 503.46.

(a) Sewage sludge:

(1) The frequency of monitoring for beryllium shall be as required in Subpart C of 40 CFR 61, and for mercury as required in Subpart E of 40 CFR 61.

(2) The frequency of monitoring for arsenic, cadmium, chromium, lead, and nickel in sewage sludge fed to a sewage sludge incinerator shall be the frequency in Table 1 of §503.46. For a sewage sludge incinerator that fires equal to or greater than 1,500 metric tons but less than 15,000 metric tons per 365 day period, (dry weight basis), sludge sampling shall be once per 60 days (six times per year). Reports summarizing results are due by February 19 of each year.

(b) The total hydrocarbons concentration and oxygen concentration in the exit gas from a sewage sludge incinerator stack, the information used to measure moisture content in the exit gas, and the combustion temperatures for the sewage sludge incinerator shall be monitored continuously.

(c) For sewage sludge incinerators subject to the requirements in Subpart O of 40 CFR 60 and 40 CFR 60 Subpart MMMM, the frequency of monitoring for the appropriate air pollution control device operating parameters shall be the frequency of monitoring in Subpart O of 40 CFR Part 60 or 40 CFR 60 Subpart MMMM, whichever is more stringent.

Condition 12: Recordkeeping
Applicable State Requirement: 40 CFR 503.47

Item 12.1:

- (a) The person who fires sewage sludge in a sewage sludge incinerator shall develop the information in §503.47(b) through §503.47(n) and shall retain that information for five years.
- (b) The concentration of lead, arsenic, cadmium, chromium, and nickel in the sewage sludge fed to the sewage sludge incinerator.
- (c) The total hydrocarbons concentrations in the exit gas from the sewage sludge incinerator stack.
- (d) Information that indicates the requirements in the National Emission Standard for beryllium in Subpart C of 40 CFR 61 are met.
- (e) Information that indicates the requirements in the National Emission Standard for mercury in Subpart E of 40 CFR 61 are met.
- (f) The operating combustion temperatures for the sewage sludge incinerator.
- (g) Values for the air pollution control device operating parameters.
- (h) The oxygen concentration and information used to measure moisture content in the exit gas from the sewage sludge incinerator stack.
- (i) The sewage sludge feed rate.
- (j) The stack height for the sewage sludge incinerator.
- (k) The dispersion factor for the site where the sewage sludge incinerator is located.
- (l) The control efficiency for lead, arsenic, cadmium, chromium, and nickel for each sewage sludge incinerator.
- (m) The risk specific concentration for chromium calculated using equation (6), if applicable.
- (n) A calibration and maintenance log for the instruments used to measure the total hydrocarbons concentration and oxygen concentration in the exit gas from the sewage sludge incinerator stack, the information needed to determine moisture content in the exit gas, and the combustion temperatures.

Condition 13: Reporting
Applicable State Requirement: 40 CFR 503.48

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Item 13.1:

Class I sludge management facilities, POTWs (as defined in 40 CFR 501.2) with a design flow rate equal to or greater than one million gallons per day, and POTWs that serve a population of 10,000 people or greater shall submit the information in §503.47(b) through §503.47(h) to the permitting authority on February 19 of each year.

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ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: ERIE COUNTY
95 FRANKLIN ST
BUFFALO, NY 14202-3904

Facility: ECSD NO 3 SOUTHTOWNS WATER RESOURCE RECOVERY FACILITY
3690 LAKESHORE RD
HAMBURG, NY 14219

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

Permit Effective Date:

Permit Expiration Date:

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- 17 16 6 NYCRR 202-1.1: Required Emissions Tests
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- 19 20 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
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- 20 24 6 NYCRR 212-1.3: Determination of Environmental Rating
- 20 25 6 NYCRR 212-1.5 (e) (1): Compliance Certification
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- 24 31 40CFR 60.13, NSPS Subpart A: Monitoring requirements.
- 25 32 40CFR 60.19, NSPS Subpart A: Changes in time periods for submittal
- 25 33 40CFR 60.19, NSPS Subpart A: Compliance Certification
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42	55	40CFR 60.5165, Subpart M MMM: Compliance Certification
43	56	40CFR 60.5165, Subpart M MMM: Compliance Certification
44	57	40CFR 60.5165, Subpart M MMM: Compliance Certification
46	58	40CFR 60.5165, Subpart M MMM: Compliance Certification
47	59	40CFR 60.5165, Subpart M MMM: Compliance Certification
48	60	40CFR 60.5165, Subpart M MMM: Compliance Certification
48	61	40CFR 60.5165, Subpart M MMM: Compliance Certification
49	62	40CFR 60.5165, Subpart M MMM: Compliance Certification
50	63	40CFR 60.5165, Subpart M MMM: Compliance Certification
52	64	40CFR 60.5170, Subpart M MMM: Compliance Certification
52	65	40CFR 60.5170(f), NSPS Subpart M MMM: Compliance Certification
53	66	40CFR 60.5170(f), NSPS Subpart M MMM: Compliance Certification
54	67	40CFR 60.5175, Subpart M MMM: Compliance Certification
55	68	40CFR 60.5175, Subpart M MMM: Compliance Certification
56	69	40CFR 60.5175, Subpart M MMM: Compliance Certification
57	70	40CFR 60.5175, Subpart M MMM: Compliance Certification
60	71	40CFR 60.5175, Subpart M MMM: Compliance Certification
62	72	40CFR 60.5175, Subpart M MMM: Compliance Certification
64	73	40CFR 60.5175, Subpart M MMM: Compliance Certification
64	74	40CFR 60.5190, Subpart M MMM: Compliance Certification
65	75	40CFR 60.5190(b), NSPS Subpart M MMM: Compliance Certification
67	76	40CFR 60.5190(c), NSPS Subpart M MMM: Compliance Certification
69	77	40CFR 60.5190(d), NSPS Subpart M MMM: Compliance Certification
71	78	40CFR 60.5190(e), NSPS Subpart M MMM: Compliance Certification
73	79	40CFR 60.5200, Subpart M MMM: Compliance Certification
73	80	40CFR 60.5205, Subpart M MMM: Compliance Certification
74	81	40CFR 60.5205(a)(3), Subpart M MMM: Compliance Certification
75	82	40CFR 60.5210, Subpart M MMM: Compliance Certification
76	83	40CFR 60.5215, Subpart M MMM: Compliance Certification
77	84	40CFR 60.5225, Subpart M MMM: Compliance Certification
78	85	40CFR 60.5230, Subpart M MMM: Compliance Certification
79	86	40CFR 60.5230, Subpart M MMM: Compliance Certification
81	87	40CFR 60.5235, Subpart M MMM: Compliance Certification
81	88	40CFR 60.5235(c), NSPS Subpart M MMM: Compliance Certification
82	89	40CFR 60.5235(d), NSPS Subpart M MMM: Compliance Certification
83	90	40CFR 61.32(a), NESHAP Subpart C: Compliance Certification
84	91	40CFR 61.55(a), NESHAP Subpart E: Compliance Certification

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- 85 92 40CFR 63, Subpart ZZZZ: Compliance Certification
- Emission Unit Level**
- 86 93 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 86 94 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 90 95 ECL 19-0301: Contaminant List
- 91 96 6 NYCRR 201-1.4: Malfunctions and Start-up/Shutdown Activities
- 92 97 6 NYCRR 211.1: Air pollution prohibited
- 92 98 6 NYCRR 212-2.2: Compliance Demonstration
- 94 99 6 NYCRR 212-2.2: Compliance Demonstration

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FEDERALLY ENFORCEABLE CONDITIONS

DRAFT

**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

- Item A: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10 (b)**
The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.
- Item B: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.2 (a) (4)**
Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.
- Item C: Certification by a Responsible Official - 6 NYCRR 201-6.2 (d) (12)**
Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- Item D: Requirement to Comply With All Conditions - 6 NYCRR 201-6.4 (a) (2)**
The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- Item E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.4 (a) (3)**
This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of

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planned changes or anticipated noncompliance does not stay any permit condition.

Item F: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4 (a) (5)

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

Item G: Property Rights - 6 NYCRR 201-6.4 (a) (6)

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

Item H: Severability - 6 NYCRR 201-6.4 (a) (9)

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

Item I: Permit Shield - 6 NYCRR 201-6.4 (g)

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

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

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- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

Item J: Reopening for Cause - 6 NYCRR 201-6.4 (i)

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

- i. When additional applicable requirements under the act become applicable to a title V facility with a remaining permit term of three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the department pursuant to the provisions of section 201- 6.6 of this Subpart.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.
- iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

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

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

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Item K: Permit Exclusion - ECL 19-0305

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

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

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

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

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

**Condition 1: Acceptable Ambient Air Quality
Effective for entire length of Permit****Applicable Federal Requirement: 6 NYCRR 200.6****Item 1.1:**

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

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Condition 2: Fees
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 201-6.4 (a) (7)

Item 2.1:

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

Condition 3: Recordkeeping and Reporting of Compliance Monitoring
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 201-6.4 (c)

Item 3.1:

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

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

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.2 of Part 201.

Condition 4: Records of Monitoring, Sampling, and Measurement
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 201-6.4 (c) (2)

Item 4.1:

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

Condition 5: Compliance Certification
Effective for entire length of Permit

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Applicable Federal Requirement: 6 NYCRR 201-6.4 (c) (3) (ii)**Item 5.1:**

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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

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

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requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.2(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

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

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

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

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All semiannual reports may be submitted electronically or physically. Electronic reports shall be submitted using the Department’s Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.4(e), contained elsewhere in this permit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 6: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 201-6.4 (e)

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

- i. Compliance certifications shall contain:
 - the identification of each term or condition of the permit that is the basis of the certification;
 - the compliance status;
 - whether compliance was continuous or intermittent;
 - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
 - such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions; and
 - such additional requirements as may be specified elsewhere in this permit related to compliance

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certification.

ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.

iii. Compliance certifications shall be submitted annually. Certification reports are due 60 days after the anniversary date of four consecutive calendar quarters. The first report is due 60 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.

iv. All annual compliance certifications may be submitted electronically or physically. Electronic reports shall be submitted using the Department’s Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). The mailing addresses for the above referenced persons are:

Chief – Air Compliance Branch
 USEPA Region 2 DECA/ACB
 290 Broadway, 21st Floor
 New York, NY 10007

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer
 NYSDEC Region 9 Headquarters
 700 Delaware Ave.,
 Buffalo, NY 14209

The address for the BQA is as follows:

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

Monitoring Frequency: ANNUALLY

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Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2027.
 Subsequent reports are due on the same day each year

**Condition 7: Recordkeeping requirements
 Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 7.1:

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

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

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

**Condition 8: Open Fires - Prohibitions
 Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 215.2

Item 8.1:

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

Item 8.2

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

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

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religious ceremony.

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

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

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

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

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

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

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

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

**Condition 9: Maintenance of Equipment
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 200.7

Item 9.1:

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

**Condition 10: Recycling and Salvage
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 10.1:

Where practical, the owner or operator of an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of the ECL.

Condition 11: Prohibition of Reintroduction of Collected Contaminants to

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the air
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 11.1:

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

Condition 12: Exempt Sources - Proof of Eligibility
Effective for entire length of Permit

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

Item 12.1:

The owner or operator of an emission source or activity that is listed as being exempt may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all records necessary for demonstrating compliance with this Subpart on-site for a period of five years, and make them available to representatives of the department upon request.

Condition 13: Trivial Sources - Proof of Eligibility
Effective for entire length of Permit

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

Item 13.1:

The owner or operator of an emission source or activity that is listed as being trivial in this Section may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request.

Condition 14: Requirement to Provide Information
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (4)

Item 14.1:

The owner and/or operator shall furnish to the department, within a reasonable time, any information that the department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

Condition 15: Right to Inspect
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (8)

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Item 15.1:

The department or an authorized representative shall be allowed upon presentation of credentials and other documents as may be required by law to:

- (i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- (ii) have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- (iii) inspect at reasonable times any emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and
- (iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

**Condition 16: Required Emissions Tests
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 16.1:

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 17: Accidental release provisions.
Effective for entire length of Permit**

Applicable Federal Requirement:40 CFR Part 68

Item 17.1:

If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Tables 1,2,3 or 4, the following requirements will apply:

- a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;
- b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:
 - 1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,
 - 2) A certification statement that the source is in compliance with all requirements of 40 CFR

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Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

Risk Management Plan Reporting Center
 C/O CSC
 8400 Corporate Dr
 Carrollton, Md. 20785

Condition 18: Recycling and Emissions Reduction
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 82, Subpart F

Item 18.1:

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

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

Condition 19: Emission Unit Definition
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 19.1:

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

Emission Unit: 0-INCIN

Emission Unit Description:

This emission unit consists of two fluidized bed incinerators (FBIs) for the combustion of municipal sewage sludge. Sewage sludge from the sludge thickeners in the main plant is dewatered using a filter press, then fed to the FBI, utilizing ultra low sulfur diesel as an auxiliary fuel source, as needed. Exhaust gas from each FBI passes through a heat recuperator which preheats a portion of the combustion air entering the FBI wind box. To control emissions, the exhaust air then enters a multistage wet scrubber, consisting of a vertical downflow venturi scrubber, followed by an impingement-plate scrubber, a mist eliminator, and mercury adsorption modules. The FBI systems are identical and separate from each other. The incinerator ash that is removed from the FBI exhaust is pumped to an ash separation tank. Water removed from the ash is sent to the influent headworks and the ash is pumped to a holding cell for further dewatering, then disposed off site at a landfill.

Building(s): stwrrf

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**Condition 20: Progress Reports Due Semiannually
Effective for entire length of Permit****Applicable Federal Requirement:6 NYCRR 201-6.4 (d) (4)****Item 20.1:**

Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by the department. Such progress reports shall contain the following:

(i) dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

(ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

**Condition 21: Operational Flexibility
Effective for entire length of Permit****Applicable Federal Requirement:6 NYCRR 201-6.4 (f)****Item 21.1:**

A permit modification is not required for changes that are provided for in the permit. Such changes include approved alternate operating scenarios and changes that have been submitted and approved pursuant to an established operational flexibility protocol and the requirements of this section. Each such change cannot be a modification under any provision of Title I of the Clean Air Act or exceed, or cause the facility to exceed, an emissions cap or limitation in the permit. The facility owner or operator must incorporate all changes into any compliance certifications, record keeping, and/or reporting required by the permit.

**Condition 22: Statement dates for emissions statements.
Effective for entire length of Permit****Applicable Federal Requirement:6 NYCRR 202-2.4 (a) (3)****Item 22.1:**

This facility is required to submit an annual emission statement electronically and these emissions statements must be submitted to the department as per the following schedule:

(i) March 15th of each year for facilities with three or fewer processes listed in their Title V permit:

(ii) March 31st of each year for facilities with four to six processes listed in their Title V permit:

(iii) April 15th of each year for facilities with 7 to 12 processes listed in their Title V permit:

(iv) April 30th of each year for facilities with 13 or more processes listed in their Title V permit.

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**Condition 23: Visible Emissions Limited
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 211.2

Item 23.1:

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

**Condition 24: Determination of Environmental Rating
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 212-1.3

Item 24.1:

In accordance with the applicability requirements of Section 212-1.1 of this Part, the department will assign an environmental rating for each air contaminant emitted from each process emission source or emission point in accordance with Subdivisions (a) through (e) of this Section. The factors in Subdivisions (a) through (d) will be considered in making a determination of the environmental rating to be applied to an air contaminant pursuant to subdivision (e), Table 1 - Environmental Rating Criteria.

- (a) Toxic and other properties and emission rate potential of the air contaminant;
- (b) location of the process emission source or emission point(s) for the air contaminant with respect to residences or other sensitive environmental receptors, taking into account the area's anticipated growth;
- (c) emission dispersion characteristics at or near the process emission source or emission point(s), taking into account the physical location of the process emission source or emission point(s) relative to the surrounding buildings and terrain; and
- (d) the projected maximum cumulative impact of an air contaminant taking into account emissions from all process emission sources at the facility under review and the pre-existing ambient concentration of the air contaminant under review.

**Condition 25: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 212-1.5 (e) (1)

Item 25.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000630-08-0	CARBON MONOXIDE
CAS No: 001746-01-6	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

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CAS No: 007439-92-1	LEAD
CAS No: 007439-97-6	MERCURY
CAS No: 007440-43-9	CADMIUM
CAS No: 007446-09-5	SULFUR DIOXIDE
CAS No: 007647-01-0	HYDROGEN CHLORIDE
CAS No: 0NY075-00-0	PARTICULATES
CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 25.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Wastewater treatment processes operated at Southtowns Water Resource Recovery Facility (WRRF) generate sewage sludge, which is disposed of through onsite incineration. The fluidized bed incinerators and associated control equipment are considered process emission sources as defined in 6 NYCRR 212-1.2. The sewage sludge incineration process at Southtowns WRRF is subject to 40 CFR 60 Subpart Mmmm requirements. Sewage sludge incinerators (SSIs) are prohibited from operating unless full compliance has been demonstrated with contaminant limits specified under 40 CFR 60 Subpart Mmmm, including particulate matter, hydrogen chloride, carbon monoxide, dioxins/furans, mercury, oxides of nitrogen, sulfur dioxide, cadmium and lead.

In accordance with 6 NYCRR 212-1.5(e)(1), a process emission source subject to a New Source Performance Standard (NSPS) under 40 CFR Part 60 satisfies the requirements of Part 212 for the respective air contaminant regulated by the federal standard if the facility owner or operator can demonstrate that the facility is in compliance with the relevant federal regulation. Southtowns WRRF has demonstrated compliance with 40 CFR 60 Subpart Mmmm and therefore has demonstrated compliance with Part 212 requirements for the regulated contaminants listed above. Performance tests must be repeated at least every three years. Southtowns WRRF must operate the SSIs and associated ancillary/control equipment in compliance with the operating limits established during the most recent performance test that verified compliance with emission limits and standards for fluidized bed sewage sludge incinerators specified under 40 CFR 60 Subpart Mmmm. If the facility fails to demonstrate compliance with 40 CFR 60 Subpart Mmmm requirements for any of the contaminants listed above, compliance with 6 NYCRR 212 requirements must be demonstrated for that contaminant.

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 26: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 212-1.5 (e) (2)

Item 26.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007440-41-7 BERYLLIUM

CAS No: 007439-97-6 MERCURY

Item 26.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A process emission source subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) under 40 CFR Part 61 or Part 63, satisfies the requirements of 6 NYCRR Part 212 for the respective air contaminant regulated by the federal standard if the facility owner or operator can demonstrate that the process emission source is in compliance with the relevant federal regulation. For those NESHAPs regulating HTACs found in the High Toxicity Air Contaminant List in Table 2 of Part 212-2.2, the facility shall provide a Toxic Impact Assessment (TIA) demonstrating that the maximum offsite ambient air concentration is less than the AGC/SGC and that emissions are less than the PB trigger for the respective air contaminant. A facility may be required to demonstrate continuous compliance with 6 NYCRR 212, by maintaining facility-wide annual actual mass emissions of an HTAC at less than the mass emission limit listed in Table 2.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 27: Maintain all process emission sources, including the associated air pollution control and monitoring equipment
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 212-1.5 (g)

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Item 27.1:

At all times, the facility owner or operator must operate and maintain all process emission sources, including the associated air pollution control and monitoring equipment, in a manner consistent with safety, good air pollution control practices, good engineering practices and manufacturers’ recommendations for minimizing emissions.

**Condition 28: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 225-1.2 (d)

Item 28.1:

The Compliance Certification activity will be performed for the Facility.

Item 28.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Per 6 NYCRR 225-1.2(d) - Sulfur-in-fuel Limitations, this facility shall not combust distillate oil with greater than 0.0015 percent sulfur by weight. The facility shall maintain fuel distributor receipts on site for 5 years from the latest entry that include the amount of fuel purchased and the sulfur content of the fuel.

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: .0015 percent by weight

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 29: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60, NSPS Subpart A

Item 29.1:

The Compliance Certification activity will be performed for the Facility.

Item 29.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Sewage sludge incinerators and associated control equipment are subject to the applicable general provisions

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of 40 CFR 60. The facility owner is responsible for reviewing and complying with all applicable technical, administrative and reporting requirements contained in 40 CFR 60 Subpart A.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

Condition 30: Compliance with Standards and Maintenance Requirements Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.11(d), NSPS Subpart A

Item 30.1:

This Condition applies to:

Emission Unit: 0INCIN
Process: XIN

Emission Unit: 0INCIN
Process: YIN

Item 30.2:

At all times, including periods of startup, shutdown, and malfunction, owners and operators of this facility shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Department and the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

Condition 31: Monitoring requirements. Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.13, NSPS Subpart A

Item 31.1:

This Condition applies to:

Emission Unit: 0INCIN
Process: XIN

Emission Unit: 0INCIN
Process: YIN

Item 31.2:

All continuous monitoring systems and devices shall be installed, calibrated, maintained, and operated in accordance with the requirements of section 60.13.

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**Condition 32: Changes in time periods for submittal
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.19, NSPS Subpart A

Item 32.1:

Changes in time periods for submittal of information and postmark deadlines set forth in 40 CFR 60, Subpart A, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19.

**Condition 33: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.19, NSPS Subpart A

Item 33.1:

The Compliance Certification activity will be performed for the Facility.

Item 33.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In accordance with 40 CFR 60.19, at the request of ECSD, all annual reports required under 40 CFR 60 shall be submitted by March 1 for the previous calendar year. Semiannual reports must be submitted by August 29 for data collected during the first half of the calendar year (January 1 to June 30), and by March 1 of the following year for data collected during the second half of the calendar year (July 1 to December 31).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 34: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.152(a)(1), NSPS Subpart O

Item 34.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 0-INCIN
Process: XIN

Emission Point: XSTAK

Emission Unit: 0-INCIN

Emission Point: YSTAK

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Process: YIN

Regulated Contaminant(s):
 CAS No: 0NY075-00-0 PARTICULATES

Item 34.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

No owner or operator of any sewage sludge incinerator subject to the provisions of 40 CFR 60 Subpart O shall discharge or cause the discharge into the atmosphere of particulate matter at a rate in excess of 0.65 g/kg dry sludge input (1.30 lb/ton dry sludge input).

Whenever a performance test is conducted to confirm compliance with the particulate limit specified under 40 CFR 60.5165, Southtowns WWRF shall verify compliance with the particulate limit specified below. The test report is due within 90 days of conducting a compliance test.

All records associated with the requirements specified above shall be maintained on-site for a minimum of 5 years and shall be available upon request by USEPA and/or NYSDEC representatives.

Upper Permit Limit: 1.30 pounds per ton

Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST

METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 90 days after the reporting period.

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

**Condition 35: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.152(a)(2), NSPS Subpart O

Item 35.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 0-INCIN Emission Point: XSTAK
 Process: XIN

Emission Unit: 0-INCIN Emission Point: YSTAK
 Process: YIN

Regulated Contaminant(s):

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Facility DEC ID: 9144800012

CAS No: 0NY075-00-0 PARTICULATES

Item 35.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Sewage Sludge Incinerators shall not discharge or cause the discharge into the atmosphere of any gases which exhibit 20 percent opacity or greater.

The operators shall check opacity of emission points at least once daily, during daylight hours except during conditions of extreme weather (fog, snow, rain). Visible emissions do not include steam plumes. The facility shall record in a bound log book or on-line operations log: the results of the visual observation: were visible emissions observed (yes or no), an explanation for days when weather conditions prohibit such observations of visible emissions, the time of the observation, and the name and signature of the operator who made the observation.

If the operator is not currently a certified Method 9 visible emissions evaluator and he/she observes any visible emissions (> 0 %), other than steam, a Method 9 analysis of the affected emission point(s) shall be conducted within 2 business days of the occurrence. The operator must contact the Region 9 Air Pollution Control Engineer within one business day of performing a Method 9 analysis, during normal business hours (8:30 am to 4:45 pm), if the analysis shows an exceedance of the required standards for opacity. Upon notification any corrective actions or future compliance schedules shall be presented to the Region for acceptance. Method 9 must be conducted by a certified visible emissions evaluator at least once per term of permit, preferably during a scheduled stack test.

All records associated with the requirements specified above shall be maintained on-site for a minimum of 5 years and shall be available upon request by USEPA and/or NYSDEC representatives.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

Condition 36: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.153(a)(1), NSPS Subpart O

Item 36.1:

The Compliance Certification activity will be performed for the Facility.

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Per 40 CFR 60.153(a)(1), the owner or operator of any sludge incinerator subject to the provisions of this subpart shall install, calibrate, maintain, and operate a flow measuring device which can be used to determine either the mass or volume of sludge charged to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of ± 5 percent over its operating range. Except as provided in §60.153 (d), the flow measuring device shall be operated continuously and data recorded during all periods of operation of the incinerator.

All records associated with the requirements specified above shall be maintained on-site for a minimum of 5 years and shall be available upon request by USEPA and/or NYSDEC representatives.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

Condition 37: Access to sludge charged for sampling
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.153(a)(2), NSPS Subpart O

Item 37.1:

40 CFR 60.153 Monitoring of operations.

(a) The owner or operator of any sludge incinerator subject to the provisions of Subpart O shall:

(2) Provide access to the sludge charged so that a well-mixed representative grab sample of the sludge can be obtained.

Condition 38: Compliance Certification

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Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.153(b)(1), NSPS Subpart O

Item 38.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 0-INCIN	Emission Point: XSTAK
Process: XIN	Emission Source: XSCRB

Emission Unit: 0-INCIN	Emission Point: YSTAK
Process: YIN	Emission Source: YSCRB

Item 38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Per 40 CFR 60.153(b), the owner or operator of a fluidized bed incinerator equipped with a wet scrubbing device, shall install, calibrate, maintain and operate a monitoring device that continuously measures and records the pressure drop of the gas flow through the wet scrubbing device. Where a combination of wet scrubbers is used in series, the pressure drop of the gas flow through the combined system shall be continuously monitored. The device used to monitor scrubber pressure drop shall be certified by the manufacturer to be accurate within ± 250 pascals (± 1 inch water gauge) and shall be calibrated on an annual basis in accordance with the manufacturer's instructions.

All records associated with the requirements specified above shall be maintained on-site for a minimum of 5 years and shall be available upon request by USEPA and/or NYSDEC representatives.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 39: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.153(b)(2), NSPS Subpart O

Item 39.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

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Emission Unit: 0-INCIN
Process: XIN

Emission Point: XSTAK
Emission Source: XINCI

Emission Unit: 0-INCIN
Process: YIN

Emission Point: YSTAK
Emission Source: YINCI

Item 39.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Per 40 CFR 60.153(b)(2), the owner or operator of any fluidized bed sludge incinerator shall install, calibrate, maintain and operate a monitoring device that continuously measures and records the oxygen content of the incinerator exhaust gas. The oxygen monitor shall be located upstream of any rabble shaft cooling air inlet into the incinerator exhaust gas stream, fan, ambient air recirculation damper, or any other source of dilution air. The oxygen monitoring device shall be certified by the manufacturer to have a relative accuracy of ±5 percent over its operating range and shall be calibrated according to method(s) prescribed by the manufacturer at least once each 24-hour operating period.

All records associated with the requirements specified above shall be maintained on-site for a minimum of 5 years and shall be available upon request by USEPA and/or NYSDEC representatives.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 40: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.153(b)(3), NSPS Subpart O

Item 40.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 0-INCIN
Process: XIN

Emission Source: XINCI

Emission Unit: 0-INCIN
Process: YIN

Emission Source: YINCI

Item 40.2:

Compliance Certification shall include the following monitoring:

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Per 40 CFR 60.153(b)(3), the owner or operator of any fluidized bed sludge incinerator subject to the provisions of this subpart shall install, calibrate, maintain and operate temperature measuring devices in the bed and outlet of fluidized bed incinerators. Each temperature measuring device shall be certified by the manufacturer to have an accuracy of ± 5 percent over its operating range.

All records associated with the requirements specified above shall be maintained on-site for a minimum of 5 years and shall be available upon request by USEPA and/or NYSDEC representatives.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 41: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.153(b)(4), NSPS Subpart O

Item 41.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 0-INCIN

Process: XIN

Emission Source: XINCI

Emission Unit: 0-INCIN

Process: YIN

Emission Source: YINCI

Item 41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Per 40 CFR 60.153(b)(4), the owner or operator of any fluidized bed sludge incinerator subject to the provisions of this subpart shall install, calibrate, maintain and operate a device for measuring the fuel flow to the incinerator. The flow measuring device shall be certified by the manufacturer to have an accuracy of ± 5 percent over its operating range.

All records associated with the requirements specified above shall be maintained on-site for a minimum of 5 years

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and shall be available upon request by USEPA and/or NYSDEC representatives.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 42: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.153(d), NSPS Subpart O

Item 42.1:

The Compliance Certification activity will be performed for the Facility.

Item 42.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This facility is subject to the requirements of 40 CFR 60 Subpart O - Standards of Performance for Sewage Treatment Plants.

To date, stack testing of the incinerators to determine compliance with 40 CFR 60 Subpart O, has demonstrated emissions of particulate matter to be less than 0.75 lb/ton dry sludge input. Continued compliance with the particulate limit specified under Subpart O shall be verified during performance tests conducted under 40 CFR 60 Subpart M for particulates. If future stack testing for particulates results in emissions greater than 0.75 lb/ton dry sludge input but less than the standard of 1.30 lb/ton dry sludge input then additional monitoring of operations as described under 40 CFR 60.153 (a), (b), and (c) will be required.

All records associated with the requirements specified above shall be maintained on-site for a minimum of 5 years and shall be available upon request by USEPA and/or NYSDEC representatives.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 43: Compliance Certification
Effective for entire length of Permit**

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Facility DEC ID: 9144800012

Applicable Federal Requirement: 40CFR 60.155(a)(1), NSPS Subpart O**Item 43.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 43.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of any multiple hearth, fluidized bed, or electric sludge incinerator subject to the provisions of 40 CFR 60 Subpart O shall submit to the Administrator (USEPA Region II and NYSDEC Region 9) semi-annually a report in writing which contains the following:

(1) A record of average scrubber pressure drop measurements for each period of 15 minutes duration or more during which the pressure drop of the scrubber was less than, by a percentage specified below, the average scrubber pressure drop measured during the most recent performance test. The percent reduction in scrubber pressure drop for which a report is required shall be determined as follows:

(i) For incinerators that achieved an average particulate matter emission rate of 0.38 EKG/Mg (0.75 lb/ton) dry sludge input or less during the most recent performance test, a scrubber pressure drop reduction of more than 30 percent from the average scrubber pressure drop recorded during the most recent performance test shall be reported.

The average pressure drop (dP) across the scrubber system measured during the most recent performance test conducted to demonstrate compliance with the particulate limit specified under 40 CFR 60.5165, shall be used to demonstrate compliance with 40 CFR 60 Subpart O requirements and to establish a minimum reporting limit for pressure drop as described above. The new limit, including calculations and supporting documentation for dP required under 40 CFR 60 Subpart O shall be reported with the performance test results and operating limits for 40 CFR 60 Subpart M. If a new limit is established, based on acceptable performance test results, it will apply following the acceptance of the performance test results by NYSDEC, starting on the 1st day of the next semiannual

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reporting period.

The semiannual report for 40 CFR 60 Subpart O shall be submitted 60 days after the end of each reporting period.

All records associated with the requirements specified above shall be maintained for a minimum of 5 years and shall be available upon request by USEPA and/or NYSDEC representatives.

Monitoring Frequency: CONTINUOUS
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 60 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

**Condition 44: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.155(a)(2), NSPS Subpart O

Item 44.1:
 The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):
 CAS No: 0NY075-00-0 PARTICULATES

Item 44.2:
 Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
 Monitoring Description:

The owner or operator of any multiple hearth, fluidized bed, or electric sludge incinerator subject to the provisions of 40 CFR 60 Subpart O shall submit to the Administrator (USEPA Region II and NYSDEC Region 9) semi-annually a report in writing which contains a record of average oxygen (O₂) content in the incinerator exhaust gas for each period of 1-hour duration or more that the oxygen content of the incinerator exhaust gas exceeds the average oxygen content measured during the most recent performance test by more than 3 percent (i.e. if Oxygen content was measured at 6% during the most recent performance test, all oxygen measurements of 9% or higher shall be reported).

The average oxygen content of the incinerator exhaust gas measured during the most recent performance test conducted to demonstrate compliance with the particulate limit specified under 40 CFR 60.5165, shall be used to demonstrate compliance with 40 CFR 60 Subpart O requirements and to establish a minimum reporting limit for O₂ content as described above. The new limit,

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including calculations and supporting documentation for O₂ content required under 40 CFR 60 Subpart O shall be reported with the performance test results and operating limits for 40 CFR 60 Subpart M. If a new limit is established, based on acceptable performance test results, it will apply following the acceptance of the performance test results by NYSDEC, starting on the 1st day of the next semiannual reporting period.

The semiannual report for 40 CFR 60 Subpart O shall be submitted 60 days after the end of each reporting period.

All records associated with the requirements specified above shall be maintained for a minimum of 5 years and shall be available upon request by USEPA and/or NYSDEC representatives.

Monitoring Frequency: CONTINUOUS
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 60 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 45: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60, NSPS Subpart III

Item 45.1:
 The Compliance Certification activity will be performed for the Facility.

Item 45.2:
 Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
 Monitoring Description:

This facility operates stationary compression ignition internal combustion engines for emergency power generation that are applicable to 40 CFR 60 Subpart III. The facility must comply with applicable portions of 40 CFR 60 Subpart III.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 60 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 46: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.5130, Subpart M

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Facility DEC ID: 9144800012

Item 46.1:

The Compliance Certification activity will be performed for the Facility.

Item 46.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The operator of a Sewage Sludge Incineration (SSI) unit must be fully trained and certified as described in 40 CFR 60.5130. A SSI unit cannot be operated unless a fully trained and qualified SSI unit operator is on-site or able to be at the facility within 1 hour. A trained and qualified SSI unit operator may operate the SSI unit directly or be the direct supervisor of one or more other plant personnel who operate the unit. In order to be fully trained and qualified, the operator must successfully complete an administrator approved training course and maintain that training through administrator approved annual refresher courses. Qualification is valid from the date on which the training course is completed and the operator successfully passes the examination required under §60.5130(c)(2).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 47: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.5135, Subpart M

Item 47.1:

The Compliance Certification activity will be performed for the Facility.

Item 47.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The operator of a Sewage Sludge Incineration (SSI) unit must complete the operator training course by the later of the following dates:

- (a) The final compliance date; or
- (b) Six months after the date of SSI unit start-up;

or

- (c) Six months after the operator assumes responsibility for operating the SSI unit or assumes responsibility for supervising the operation of the SSI unit.

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

Condition 48: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.5140, Subpart M

Item 48.1:

The Compliance Certification activity will be performed for the Facility.

Item 48.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Per 40 CFR 60.5140(a), the operator of a Sewage Sludge Incineration (SSI) must obtain qualification by completing a training course that satisfies the criteria under §60.5130(b). Qualification is valid from the date on which the training course is completed and the operator successfully passes the examination required under §60.5130(c)(2).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

Condition 49: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.5145, Subpart M

Item 49.1:

The Compliance Certification activity will be performed for the Facility.

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To maintain qualification, a Sewage Sludge Incinerator operator must complete an annual review or refresher course covering, at a minimum, the following five topics:

(a) Update of regulations.

(b) Incinerator operation, including startup and shutdown procedures, sewage sludge feeding, and ash handling.

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- (c) Inspection and maintenance.
- (d) Prevention of malfunctions or conditions that may lead to malfunction.
- (e) Discussion of operating problems encountered by attendees.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 50: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.5150, Subpart MMMM

Item 50.1:

The Compliance Certification activity will be performed for the Facility.

Item 50.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A Sewage Sludge Incinerator (SSI) operator must renew a lapsed operator qualification before beginning operation of a SSI unit by one of the two methods specified in paragraphs (a) and (b) of this section.

(a) For a lapse of less than 3 years, complete a standard annual refresher course described in §60.5145.

(b) For a lapse of 3 years or more, repeat the initial qualification requirements in §60.5140(a).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 51: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.5155, Subpart MMMM

Item 51.1:

The Compliance Certification activity will be performed for the Facility.

Item 51.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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If a qualified operator is not at the facility and cannot be at the facility within 1 hour, the owner or operator of a SSI unit must meet the criteria specified in either paragraph (a) or (b) of this section, depending on the length of time that a qualified operator is not accessible.

(a) If a qualified operator is not accessible for more than 8 hours, the SSI unit may be operated for less than 2 weeks by other plant personnel who are familiar with the operation of the SSI unit and who have completed a review of the information specified in 40 CFR 60.5160 within the past 12 months. The facility must maintain a record of the period when a qualified operator was not accessible and include this deviation in their annual report as specified under 40 CFR 60.5235(d).

(b) If a qualified operator will not be accessible for 2 weeks or more, the facility must:

(1) Notify NYSDEC of this deviation in writing within 10 days. In the notice, state what caused this deviation, what the facility is doing to ensure that a qualified operator is accessible, and when they anticipate that a qualified operator will be accessible; and

(2) Submit a status report to NYSDEC every 4 weeks outlining what the facility is doing to ensure that a qualified operator is accessible, stating when the facility anticipates that a qualified operator will be accessible, and requesting approval from NYSDEC to continue operation of the SSI unit. The facility must submit the first status report 4 weeks after NYSDEC was first notified of the deviation.

(i) If NYSDEC notifies the facility that their request to continue operation of the SSI unit is disapproved, the SSI unit may continue operation for 30 days, and then must cease operation.

(ii) Operation of the unit may resume if a qualified operator is accessible as required under 60.5130(a). The facility must notify NYSDEC within 5 days of having resumed operations and of having a qualified operator accessible.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

Condition 52: Compliance Certification
Effective for entire length of Permit

Permit ID: 9-1448-00012/00013

Facility DEC ID: 9144800012

Applicable Federal Requirement:40CFR 60.5160, Subpart M

Item 52.1:

The Compliance Certification activity will be performed for the Facility.

Item 52.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Per 40 CFR 60.5160, the facility must maintain documentation of the operator training procedures specified under §60.5230(c)(1) and make the documentation readily accessible to all SSI unit operators.

The facility must establish a program for reviewing the information listed in §60.5230(c)(1) with each qualified incinerator operator and other plant personnel who may operate the unit according to the provisions of §60.5155(a), according to the following schedule:
 (1) The initial review of the information listed in §60.5230(c)(1) must be conducted within 6 months prior to an employee's assumption of responsibilities for operation of the SSI unit
 (2) Subsequent annual reviews of the information listed in §60.5230(c)(1) must be conducted no later than 12 months following the previous review.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 53: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.5165, Subpart M

Item 53.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 0-INCIN

Emission Point: XSTAK

Emission Unit: 0-INCIN

Emission Point: YSTAK

Regulated Contaminant(s):

CAS No: 051207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN
CAS No: 001746-01-6	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

Item 53.2:

Permit ID: 9-1448-00012/00013

Facility DEC ID: 9144800012

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility owner or operator must ensure that emissions of dioxins and furans on a total mass basis do not exceed 1.2 nanograms per dry standard cubic meter (corrected to 7% oxygen) as an average of 3 stack test runs. Each test run must collect a minimum sample volume of one dry standard cubic meter. In order to demonstrate compliance with this limit, the facility owner or operator shall conduct a stack test, as described in 40 CFR 60.5220, on an annual basis. Annual testing must be conducted at least 11 months but not more than 13 months from the previous test as described in 40 CFR 60.5205(a). The facility owner or operator may conduct the performance test less often in accordance with §60.5205 (a)(3)(i)-(iii), if applicable. The permittee shall notify NYSDEC of the time and date of a scheduled stack test and submit a stack testing protocol at least 30 days before the test date. Testing may not proceed without NYSDEC approval of the testing protocol. Stack test final reports shall be submitted to NYSDEC no later than 90 days after test completion.

The facility owner or operator has the option to comply with either the dioxin/furan emission limit specified below on a total mass basis, or the dioxin/furan emission limit specified in this permit on a toxic equivalency basis. Compliance with either limit demonstrates compliance with 40 CFR 60 Subpart M requirements.

Parameter Monitored: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

Upper Permit Limit: 1.2 nanograms per dry standard cubic meter (corrected to 7% O₂)

Reference Test Method: EPA Reference Test Method 23

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ARITHMETIC MEAN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 54: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.5165, Subpart M

Item 54.1:

Permit ID: 9-1448-00012/00013

Facility DEC ID: 9144800012

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

Emission Unit: 0-INCIN Emission Point: XSTAK

Emission Unit: 0-INCIN Emission Point: YSTAK

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

Item 54.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility owner or operator must ensure that emissions of carbon monoxide do not exceed 64 parts per million by volume (dry corrected to 7% oxygen) as an average of 3 stack test runs. Each test run must collect a sample for a minimum of one hour. In order to demonstrate compliance with this limit, the facility owner or operator shall conduct a stack test, as described in 40 CFR 60.5220, on an annual basis. Annual testing must be conducted at least 11 months but not more than 13 months from the previous test as described in 40 CFR 60.5205(a). The facility owner or operator may conduct the performance test less often in accordance with §60.5205 (a)(3)(i)-(iii), if applicable. The permittee shall notify NYSDEC of the time and date of a scheduled stack test and submit a stack testing protocol at least 30 days before the test date. Testing may not proceed without NYSDEC approval of the testing protocol. Stack test final reports shall be submitted to NYSDEC no later than 90 days after test completion.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 64 parts per million by volume (dry, corrected to 7% O₂)

Reference Test Method: EPA Reference Test Method 10, 10A or 10B

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ARITHMETIC MEAN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 90 days after the reporting period.

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

**Condition 55: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.5165, Subpart M

Permit ID: 9-1448-00012/00013

Facility DEC ID: 9144800012

Item 55.1:

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

Emission Unit: 0-INCIN Emission Point: XSTAK

Emission Unit: 0-INCIN Emission Point: YSTAK

Regulated Contaminant(s):
CAS No: 007440-43-9 CADMIUM

Item 55.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility owner or operator must ensure that emissions of cadmium do not exceed 0.0016 milligrams per dry standard cubic meter (corrected to 7% oxygen) as an average of 3 stack test runs. Each test run must collect a sample with a volume of at least 1 dry standard cubic meter. In order to demonstrate compliance with this limit, the facility owner or operator shall conduct a stack test, as described in 40 CFR 60.5220, on an annual basis. Annual testing must be conducted at least 11 months but not more than 13 months from the previous test as described in 40 CFR 60.5205(a). The facility owner or operator may conduct the performance test less often in accordance with §60.5205 (a)(3)(i)-(iii), if applicable. The permittee shall notify NYSDEC of the time and date of a scheduled stack test and submit a stack testing protocol at least 30 days before the test date. Testing may not proceed without NYSDEC approval of the testing protocol. Stack test final reports shall be submitted to NYSDEC no later than 90 days after test completion.

Parameter Monitored: CADMIUM
Upper Permit Limit: 0.0016 milligrams per dry standard cubic meter (corrected to 7% oxygen)
Reference Test Method: EPA Reference Test Method 29
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: ARITHMETIC MEAN
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 90 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

**Condition 56: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.5165, Subpart M

Permit ID: 9-1448-00012/00013

Facility DEC ID: 9144800012

Item 56.1:

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

Emission Unit: 0-INCIN Emission Point: XSTAK

Emission Unit: 0-INCIN Emission Point: YSTAK

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 56.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility owner or operator shall ensure that fugitive emissions of combustion ash from an ash handling system (including transfer points) are not visible for more than five percent of each hourly observation period. Visible emissions readings must be conducted over three 1-hour observation periods. To demonstrate initial and continued compliance with this condition, the facility owner or operator shall conduct a visible emissions test on an annual basis. Annual testing must be conducted at least 11 months but not more than 13 months from the previous test as described in 40 CFR 60.5205(a). The facility owner or operator may conduct the performance test less often in accordance with §60.5205 (a)(3)(i)-(iii), if applicable. The permittee shall notify NYSDEC of the time and date of a scheduled stack test and submit a stack testing protocol at least 30 days before the test date. Testing may not proceed without NYSDEC approval of the testing protocol. Stack test final reports shall be submitted to NYSDEC no later than 90 days after test completion.

Parameter Monitored: VISIBLE EMISSIONS

Upper Permit Limit: 5 percent

Reference Test Method: EPA Reference Test Method 22

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 57: Compliance Certification
Effective for entire length of Permit**

Permit ID: 9-1448-00012/00013

Facility DEC ID: 9144800012

Applicable Federal Requirement: 40CFR 60.5165, Subpart M

Item 57.1:

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

Emission Unit: 0-INCIN Emission Point: XSTAK

Emission Unit: 0-INCIN Emission Point: YSTAK

Regulated Contaminant(s):
CAS No: 007439-97-6 MERCURY

Item 57.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility owner or operator must ensure that emissions of mercury do not exceed 0.037 milligrams per dry standard cubic meter (corrected to 7% oxygen) as an average of 3 stack test runs. Each test run must collect a minimum sample volume of one dry standard cubic meter (if using Method 29) or a minimum sample as described in the test method (if using Method 30B). In order to demonstrate compliance with this limit, the facility owner or operator shall conduct a stack test, as described in 40 CFR 60.5220, on an annual basis. Annual testing must be conducted at least 11 months but not more than 13 months from the previous test as described in 40 CFR 60.5205(a). The facility owner or operator may conduct the performance test less often in accordance with §60.5205 (a)(3)(i)-(iii), if applicable. The permittee shall notify NYSDEC of the time and date of a scheduled stack test and submit a stack testing protocol at least 30 days before the test date. Testing may not proceed without NYSDEC approval of the testing protocol. Stack test final reports shall be submitted to NYSDEC no later than 90 days after test completion.

Parameter Monitored: MERCURY

Upper Permit Limit: 0.037 milligrams per dry standard cubic meter (corrected to 7% oxygen)

Reference Test Method: EPA Reference Test Method 29 or 30B

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ARITHMETIC MEAN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 90 days after the reporting period.

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

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Facility DEC ID: 9144800012

Condition 58: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.5165, Subpart M

Item 58.1:

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

Emission Unit: 0-INCIN Emission Point: XSTAK

Emission Unit: 0-INCIN Emission Point: YSTAK

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

Item 58.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility owner or operator must ensure that emissions of sulfur dioxide do not exceed 15 parts per million by volume (dry corrected to 7% oxygen) as an average of 3 stack test runs. Each test run must collect a minimum sample volume of 60 liters (if using Method 6) or a minimum duration of one hour (if using Method 6C). In order to demonstrate compliance with this limit, the facility owner or operator shall conduct a stack test, as described in 40 CFR 60.5220, on an annual basis. Annual testing must be conducted at least 11 months but not more than 13 months from the previous test as described in 40 CFR 60.5205(a). The facility owner or operator may conduct the performance test less often in accordance with §60.5205 (a)(3)(i)-(iii), if applicable. The permittee shall notify NYSDEC of the time and date of a scheduled stack test and submit a stack testing protocol at least 30 days before the test date. Testing may not proceed without NYSDEC approval of the testing protocol. Stack test final reports shall be submitted to NYSDEC no later than 90 days after test completion.

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 15 parts per million by volume (dry, corrected to 7% O₂)

Reference Test Method: EPA Reference Test Method 6 or 6C

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ARITHMETIC MEAN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 90 days after the reporting period.

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

Permit ID: 9-1448-00012/00013

Facility DEC ID: 9144800012

Condition 59: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.5165, Subpart M

Item 59.1:

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

Emission Unit: 0-INCIN Emission Point: XSTAK

Emission Unit: 0-INCIN Emission Point: YSTAK

Regulated Contaminant(s):
 CAS No: 0NY075-00-0 PARTICULATES

Item 59.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility owner or operator must ensure that emissions of particulate matter do not exceed 18 milligrams per dry standard cubic meter (corrected to 7% oxygen) as an average of 3 stack test runs. Each test run must collect a minimum sample volume of one dry standard cubic meter. In order to demonstrate compliance with this limit, the facility owner or operator shall conduct a stack test, as described in 40 CFR 60.5220, on an annual basis. Annual testing must be conducted at least 11 months but not more than 13 months from the previous test as described in 40 CFR 60.5205(a). The facility owner or operator may conduct the performance test less often in accordance with §60.5205 (a)(3)(i)-(iii), if applicable. The permittee shall notify NYSDEC of the time and date of a scheduled stack test and submit a stack testing protocol at least 30 days before the test date. Testing may not proceed without NYSDEC approval of the testing protocol. Stack test final reports shall be submitted to NYSDEC no later than 90 days after test completion.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 18 milligrams per dry standard cubic meter (corrected to 7% oxygen)

Reference Test Method: EPA Reference Test Method 5, 26A or 29

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ARITHMETIC MEAN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 90 days after the reporting period.

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

Condition 60: Compliance Certification

Permit ID: 9-1448-00012/00013

Facility DEC ID: 9144800012

Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.5165, Subpart M

Item 60.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 0-INCIN Emission Point: XSTAK

Emission Unit: 0-INCIN Emission Point: YSTAK

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

Item 60.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility owner or operator must ensure that emissions of oxides of nitrogen do not exceed 150 parts per million by volume (dry corrected to 7% oxygen) as an average of 3 stack test runs. Each test run must collect a sample for a minimum of one hour. In order to demonstrate compliance with this limit, the facility owner or operator shall conduct a stack test, as described in 40 CFR 60.5220, on an annual basis. Annual testing must be conducted at least 11 months but not more than 13 months from the previous test as described in 40 CFR 60.5205(a). The facility owner or operator may conduct the performance test less often in accordance with §60.5205 (a)(3)(i)-(iii), if applicable. The permittee shall notify NYSDEC of the time and date of a scheduled stack test and submit a stack testing protocol at least 30 days before the test date. Testing may not proceed without NYSDEC approval of the testing protocol. Stack test final reports shall be submitted to NYSDEC no later than 90 days after test completion.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 150 parts per million by volume
 (dry, corrected to 7% O₂)

Reference Test Method: EPA Reference Test Method 7 or 7E

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ARITHMETIC MEAN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 61: Compliance Certification
 Effective for entire length of Permit**

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Facility DEC ID: 9144800012

Applicable Federal Requirement: 40CFR 60.5165, Subpart M

Item 61.1:

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

Emission Unit: 0-INCIN Emission Point: XSTAK

Emission Unit: 0-INCIN Emission Point: YSTAK

Regulated Contaminant(s):
CAS No: 007439-92-1 LEAD

Item 61.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility owner or operator must ensure that emissions of lead do not exceed 0.0074 milligrams per dry standard cubic meter (corrected to 7% oxygen) as an average of 3 stack test runs. Each test run must collect a minimum sample volume of one dry standard cubic meter. In order to demonstrate compliance with this limit, the facility owner or operator shall conduct a stack test, as described in 40 CFR 60.5220, on an annual basis. Annual testing must be conducted at least 11 months but not more than 13 months from the previous test as described in 40 CFR 60.5205(a). The facility owner or operator may conduct the performance test less often in accordance with §60.5205 (a)(3)(i)-(iii), if applicable. The permittee shall notify NYSDEC of the time and date of a scheduled stack test and submit a stack testing protocol at least 30 days before the test date. Testing may not proceed without NYSDEC approval of the testing protocol. Stack test final reports shall be submitted to NYSDEC no later than 90 days after test completion.

Parameter Monitored: LEAD

Upper Permit Limit: 0.0074 milligrams per dry standard cubic meter (corrected to 7% oxygen)

Reference Test Method: EPA Reference Test Method 29

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ARITHMETIC MEAN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 90 days after the reporting period.

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

Condition 62: Compliance Certification Effective for entire length of Permit

Permit ID: 9-1448-00012/00013

Facility DEC ID: 9144800012

Applicable Federal Requirement: 40CFR 60.5165, Subpart M

Item 62.1:

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

- Emission Unit: 0-INCIN Emission Point: XSTAK
- Emission Unit: 0-INCIN Emission Point: YSTAK
- Regulated Contaminant(s):
CAS No: 007647-01-0 HYDROGEN CHLORIDE

Item 62.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility owner or operator must ensure that emissions of hydrogen chloride do not exceed 0.51 parts per million by volume (dry corrected to 7% oxygen) as an average of 3 stack test runs. Each test run must collect a minimum sample volume of one dry standard cubic meter. In order to demonstrate compliance with this limit, the facility owner or operator shall conduct a stack test, as described in 40 CFR 60.5220, on an annual basis. Annual testing must be conducted at least 11 months but not more than 13 months from the previous test as described in 40 CFR 60.5205(a). The facility owner or operator may conduct the performance test less often in accordance with §60.5205 (a)(3)(i)-(iii), if applicable. The permittee shall notify NYSDEC of the time and date of a scheduled stack test and submit a stack testing protocol at least 30 days before the test date. Testing may not proceed without NYSDEC approval of the testing protocol. Stack test final reports shall be submitted to NYSDEC no later than 90 days after test completion.

Parameter Monitored: HYDROGEN CHLORIDE

Upper Permit Limit: 0.51 parts per million by volume
(dry, corrected to 7% O₂)

Reference Test Method: EPA Reference Test Method 26A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ARITHMETIC MEAN

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 90 days after the reporting period.

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

**Condition 63: Compliance Certification
Effective for entire length of Permit**

Permit ID: 9-1448-00012/00013

Facility DEC ID: 9144800012

Applicable Federal Requirement: 40CFR 60.5165, Subpart M

Item 63.1:

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

Emission Unit: 0-INCIN	Emission Point: XSTAK
Emission Unit: 0-INCIN	Emission Point: YSTAK
Regulated Contaminant(s):	
CAS No: 051207-31-9	2,3,7,8-TETRACHLORODIBENZOFURAN
CAS No: 001746-01-6	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

Item 63.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility owner or operator must ensure that emissions of dioxins and furans on a toxic equivalency basis do not exceed 0.10 nanograms per dry standard cubic meter (corrected to 7% oxygen) as an average of 3 stack test runs. Each test run must collect a minimum sample volume of one dry standard cubic meter. In order to demonstrate compliance with this limit, the facility owner or operator shall conduct a stack test, as described in 40 CFR 60.5220, on an annual basis. Annual testing must be conducted at least 11 months but not more than 13 months from the previous test as described in 40 CFR 60.5205(a). The facility owner or operator may conduct the performance test less often in accordance with §60.5205 (a)(3)(i)-(iii), if applicable. The permittee shall notify NYSDEC of the time and date of a scheduled stack test and submit a stack testing protocol at least 30 days before the test date. Testing may not proceed without NYSDEC approval of the testing protocol. Stack test final reports shall be submitted to NYSDEC no later than 90 days after test completion.

The facility owner or operator has the option to comply with either the dioxin/furan emission limit specified below on a toxic equivalency basis, or the dioxin/furan emission limit specified in this Air Title V permit on a total mass basis. Compliance with either limit demonstrates compliance with 40 CFR 60 Subpart M requirements.

Parameter Monitored: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

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Upper Permit Limit: 0.10 nanograms per dry standard
 cubic meter (corrected to 7% O₂)
 Reference Test Method: EPA Reference Test Method 23
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
 DESCRIPTION
 Averaging Method: ARITHMETIC MEAN
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 90 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 64: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.5170, Subpart M

Item 64.1:
 The Compliance Certification activity will be performed for the Facility.

Item 64.2:
 Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
 Monitoring Description:

The facility must meet, as applicable, the operating limits and requirements specified in of 40 CFR 60.5170(a), (b), (d), and (h). The operating parameters for which limits are established are listed in 40 CFR 60 Subpart M, Table 4. The facility must comply with the requirements in paragraph §60.5170 (g) for meeting any new operating limits, re-established in §60.5210. The operating limits apply at all times that sewage sludge is in the combustion chamber (i.e., until the sewage sludge feed to the combustor has been cut off for a period of time not less than the sewage sludge incineration residence time).

The facility owner or operator shall maintain all records pursuant to this condition at the facility for a period of at least five years. Such records must be made available to NYSDEC upon request. The facility is required to report semiannually and annually as specified under 6 NYCRR 201-6.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
 DESCRIPTION
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 60 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 65: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.5170(f), NSPS Subpart M

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Emission Unit: 0-INCIN
Process: YIN

Item 66.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator must maintain a record of the daily average moisture content of sewage sludge fed to the Sewage Sludge Incineration (SSI) unit. To demonstrate compliance with this condition, the facility owner or operator must take at least one grab sample per day of the sewage sludge fed to the SSI unit and calculate its moisture content.

The facility owner or operator shall maintain a record onsite of each daily or daily average moisture content value, calculated pursuant to this condition as specified in §60.5230(f)(3)(ii), for a period of at least five years. Such records must be made available to NYSDEC upon request.

Monitoring Frequency: DAILY

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

Condition 67: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.5175, Subpart M

Item 67.1:

The Compliance Certification activity will be performed for the Facility.

Item 67.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Per the USEPA approved Alternative Monitoring Plan, the facility shall maintain a minimum differential pressure across the scrubber to demonstrate control of dioxin/furan emissions.

The pressure shall be measured continuously with data recordings every 15 minutes. Arithmetic averages shall be calculated hourly using the 15-minute data. Hourly averages will be used to calculate a 12-hour block

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average, which will be used to demonstrate compliance. This measurement of scrubber differential pressure is dictated in Table 4 of 40 CFR 60 Subpart M. The lower value of the differential pressure will be established during stack testing (12-hour block averages). Southtowns WRRF shall maintain records of 1-hour averages.

The Semiannual Deviation Report and Annual Compliance Certification Report required under 6 NYCRR 201-6 are due 60 days after the end of each reporting period. All records associated with the requirements specified above shall be maintained on-site for a minimum of 5 years and shall be available upon request by USEPA and/or NYSDEC representatives.

Monitoring Frequency: CONTINUOUS
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 60 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 68: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40 CFR 60.5175, Subpart M

Item 68.1:

The Compliance Certification activity will be performed for the Facility.

Item 68.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Per the USEPA approved Alternative Monitoring Plan, the facility shall maintain a minimum combustion bed temperature of the incinerators to demonstrate control of dioxin/furan emissions.

The lower values for the combustion bed chamber temperature in INC X and INC Y will be established as site specific operating parameter limits during a stack performance test. The temperature will be measured continuously utilizing a sensor located within each incinerator. Combustion bed temperature readings shall be recorded every 15 minutes. Arithmetic averages will be calculated hourly using the 15-minute data. Hourly averages will be used to calculate a 12-hour block average for compliance. The Southtowns WRRF will maintain records of 1-hour averages.

The Semiannual Deviation Report and Annual Compliance Certification Report required under 6 NYCRR 201-6 are due 60 days after the end of each reporting period. All

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Monitoring Description:

The mercury control system associated with each sewage sludge fluidized bed incinerator (FBI) contains a mercury scrubbing stage consisting of sorbent polymer composite (SPC) modules, in series. The removal efficiency of the SPC material contained in each module decreases after 1.75 pounds of mercury (Hg) has been chemically adsorbed.

To ensure that the mercury control system is working properly, Southtowns Water Resource Recovery Facility (Southtowns WWRF) shall conduct periodic sampling and analysis of SPC material from each module according to their EPA approved alternative monitoring plan (AMP), Envirocare's O & M Plan, the manufacturer's recommendations and this permit. During sampling events for the SPC material, inspections of the modules shall be conducted and shall include visual inspection of the system for film build up, deterioration, or any other form of physical damage to the SPC material, misalignment of the modules and other issues that could cause a reduction in the removal efficiency of mercury. Inspections shall be conducted more frequently in the case of process upsets that could affect the operation of the modules or if NYSDEC and/or USEPA determine that more frequent inspections are necessary.

In addition to sampling the SPC material for mercury mass loading, a screening-level procedure shall be conducted during each sampling event to estimate the removal efficiency of the module system and the concentration of mercury at the outlet of the modules (mg/dscm @ 7% O₂). Specifically, a modified Reference Method 30B carbon trap screening consisting of a 20-minute sample with no traverse, or similar method approved by NYSDEC, shall be used as a tool to estimate the mass emission rate of total mercury, both upstream and downstream of the mercury modules. These mass emission rates of mercury shall be used to calculate the removal efficiency of the modules at the time of sampling. The concentration of total mercury in mg/dscm, corrected to 7% O₂ shall also be calculated at the outlet of the mercury modules. Composite sampling and analysis of sewage sludge for Hg content (mg/kg, dry) shall be conducted simultaneously with this screening activity. The modified 30B carbon trap screening or similar method approved by NYSDEC may be conducted by someone other than the mercury module manufacturer with prior written approval by NYSDEC. The operating parameters for the sewage sludge incineration process and associated control equipment shall be monitored and recorded during the screening-level procedure and reported in the mercury testing report.

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Whenever significant film/soot build-up or deterioration of any modules is observed during an inspection, the incinerator associated with the module(s) shall cease operation until the screening results demonstrate that the modules are working properly and the concentration of mercury at the outlet of the modules is 0.037 mg Hg/dscm @ 7% O₂ or less. If screening results show that the concentration of mercury exceeds the standard, the modules must be replaced prior to combusting sewage sludge in the incinerator again. NYSDEC shall be notified within 2 days, via email, if this occurs.

All sample collection and handling shall be conducted using accepted QA/QC procedures, including Chain-of-Custody record keeping, and according to approved test method requirements. A custody seal shall be accurately and legibly completed and attached to each shipping container/package. All chain of custody documents shall be accurately and legibly completed for the SPC samples through shipping and analysis. Failure to follow proper sample and handling procedures may invalidate samples. Analysis of the SPC material samples must be conducted by a laboratory certified by the New York State Environmental Laboratory Approval Program (NYS ELAP) using NYS ELAP approved methods for the determination of mercury in solid and hazardous waste. The use of a laboratory certified under the National Environmental Laboratory Accreditation Program (NELAP) may be acceptable with prior NYSDEC approval.

Per the AMP, the facility shall follow the “Mercury Module Capacity and Performance” report recommendations regarding module remaining life for scheduling replacement of the modules.

The following constitutes a deviation, which must be reported in the deviation report, including corrective actions taken, as specified in §60.5235(d) and Table 6 of Subpart MMMM for each instance:

- Operation of the mercury modules after the manufacturer has recommended immediate replacement of a module, i.e. mercury loading exceeds 1.75 pounds per module, removal efficiency is inadequate and/or outlet concentration exceeds 0.037 mg Hg/dscm @ 7% O₂ or other issue that interferes with the removal of mercury from the exhaust;
- Operation of the mercury modules after significant soot/film build-up or deterioration of modules is observed during an inspection and replacement is recommended.

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All records pertaining to this monitoring requirement, including but not limited to, reports for SPC material sampling, mercury screening, inspections, maintenance, repair, replacement, immediate shutdown of the process due to suspect or ineffective modules, and other pertinent information needed to demonstrate compliance shall be maintained at the facility in accordance with §60.5230 for a period of at least 5 years. All records shall be available within 30 days upon request by NYSDEC and/or the USEPA. Spent SPC material shall be disposed of properly in accordance with the appropriate NYSDEC requirements for solid and/or hazardous waste, as applicable.

Parameter Monitored: MERCURY
 Upper Permit Limit: 1.75 pounds per module
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 60 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 71: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.5175, Subpart M

Item 71.1:

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

Emission Unit: 0-INCIN	
Process: XIN	Emission Source: XMERC
Emission Unit: 0-INCIN	
Process: YIN	Emission Source: YMERC
Regulated Contaminant(s):	
CAS No: 007439-97-6	MERCURY

Item 71.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

High differential pressure across the mercury modules can indicate a problem with blinding or buildup of particulate on the SPC material, reducing mercury removal efficiency. To ensure that the gas flow is within the maximum design flow for mercury removal, the maximum differential pressure across the layers of mercury modules shall not

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exceed 0.5 inches of water column (in H₂O) per installed module. Southtowns Water Resource Recovery Facility (WRRF) currently operates the mercury removal system for each incinerator with 4 modules in series, resulting in a limit for total pressure drop across the modules of 2.0 in H₂O. Each incinerator has the capacity to accept a maximum of 4 modules in series.

To verify compliance with the maximum limit, the pressure differential across the mercury adsorption modules shall be measured continuously, with data recording every 15 minutes, at a minimum. One-hour arithmetic averages of the continuously recorded pressure drop shall be used to calculate the 12-hour block averages for demonstrating compliance with the maximum operating limit for differential pressure. Any changes made to equipment shall be in accordance with the Alternative Monitoring Plan and with prior USEPA or NYSDEC authorization.

Operation of the mercury modules above the established maximum pressure differential limit constitutes a deviation, which must be reported in the semiannual deviation report as specified in §60.5235(d) and Table 6 of Subpart Mmmm for each instance that the operating limit is exceeded. If a 12-hr block average shows an exceedance of the maximum limit, Southtowns WRRF shall shut down the incinerator and take immediate action to investigate and correct the problem. Whenever an investigation is conducted, the facility shall record its findings in detail, including the cause and corrective action taken, with the date, time and name of the operator/technician who conducted the investigation. An explanation and justification shall be provided whenever an investigation of a high 12-hr block average is delayed. The investigation details shall be recorded in a permanently bound logbook or electronically on a secure server. The details regarding a deviation of the maximum limit and any corrective action taken shall be included in the semiannual deviation report.

Southtowns WRRF shall conduct regular maintenance to remove moisture build up in the lines to the differential pressure transmitter to prevent false dP readings and potential deviations from the established operating limit. Results of each inspection/maintenance event shall be recorded.

The continuous parameter monitoring system (CPMS) shall be installed, operated, calibrated, inspected, maintained and evaluated in accordance with the EPA approved Alternative Monitoring Plan for the mercury removal system, the O&M Manual, 60.5200 (a)(3)(ii)(B)(1) through (6), 40 CFR 60.13

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and good engineering practices. Detailed records shall be maintained to demonstrate compliance with the requirements specified in this monitoring condition. All records shall be maintained at the facility in accordance with §60.5230 and the alternative monitoring plan for a period of at least 5 years. All records must be made available to NYSDEC upon request.

Parameter Monitored: PRESSURE CHANGE
 Upper Permit Limit: 0.5 inches of water
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 12-HOUR BLOCK AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 60 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

**Condition 72: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.5175, Subpart M

Item 72.1:

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

Emission Unit: 0-INCIN	Emission Point: XSTAK
Process: XIN	Emission Source: XMERC
Emission Unit: 0-INCIN	Emission Point: YSTAK
Process: YIN	Emission Source: YMERC

Regulated Contaminant(s):
 CAS No: 007439-97-6 MERCURY

Item 72.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Southtowns Water Resource Recovery Facility (Southtowns WWRf) operates two fluidized bed incinerators (FBIs) for disposal of sewage sludge. Each FBI is equipped with a mercury control system consisting of mercury adsorbing modules, spray lances and a mesh mist eliminator (ME). The mercury modules, located downstream from each wet scrubber system, contain sorbent polymer composite (SPC) material that removes mercury from the FBI exhaust gas via chemisorption. The spray lances and ME are located downstream of the mercury adsorption modules.

Southtowns WRRF shall install, operate, calibrate, monitor, inspect, evaluate and maintain all parts of the

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mercury control system in accordance with the EPA approved alternative monitoring plan (Monitoring Plan), the Envirocare International Operation and Maintenance Manual for the Fluidized Bed Mercury Scrubber System prepared November 24, 2015 (O&M Plan) and any amendments to the O&M Plan required to improve control performance

To ensure that the SPC modules perform as designed for the removal of mercury from the exhaust gas, the Alternative Monitoring Plan and this Air Title V permit specify operating limits for the pressure differential (dP) across the SPC module, the working temperature of the SPC modules and the mercury mass loading to the SPC material contained in each module. Continuous monitoring and recording of operating parameters is required using a continuous parameter monitoring system (CPMS).

The spray lances contained in the mercury control system are used to intermittently inject atomized water to irrigate the upstream side of the ME and to clean debris and sulfuric acid (H₂SO₄) generated from sulfur dioxide (SO₂) in the exhaust from the SPC modules below. The spray lances also wash down the mesh ME during the backwash cycle to prevent particle build up and enable drainage of captured particulate laden droplets under all operating conditions. The spray lances shall be operated at the flow rate and frequency recommended by the manufacturer. Any time that the flow rate is modified, the old and new flow rates shall be recorded in a permanently bound logbook. The time stamped on/off status of the spray lances shall be recorded by the SCADA system to verify duration and frequency of operation of the module and ME washing cycles. Southtowns WRRF shall maintain records to demonstrate that the spray lances have been installed, operated, inspected, calibrated, maintained, and repaired in accordance with the Envirocare O&M Plan, 40CFR60.11(d), 6NYCRR200.7 and the manufacturer's spray lance design specifications and/or subsequent recommendations.

During routine inspections of the mercury adsorption module system, the ME mesh pad shall be inspected for proper alignment/positioning and black soot buildup. Details of the inspection shall be recorded and maintained on-site.

Spare parts shall be maintained on site for repair of monitoring devices that break down easily.

The facility shall maintain all records pertaining to the installation, operation, calibration, inspection, evaluation, repair, and maintenance of the mercury control

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system on site for a period of at least 5 years. All records shall be organized and readily available in either paper copy or computer-readable format upon request by NYSDEC and/or USEPA representatives.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 73: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.5175, Subpart M

Item 73.1:

The Compliance Certification activity will be performed for the Facility.

Item 73.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If a facility uses an air pollution control device other than a wet scrubber, fabric filter, electrostatic precipitator, activated carbon injection, or afterburner, or limits emissions in some other manner to comply with the emission limits in 40 CFR 60.5165, the facility shall petition the Administrator for specific operating parameters, operating limits, and averaging periods to be established during the initial performance test and to be monitored continuously thereafter.

The facility has an Alternative Monitoring Plan (AMP) petition approved by the USEPA on May 15, 2025 for the control of mercury and dioxins/furans emissions. The facility shall follow the monitoring requirements established in the approved AMP.

The facility shall maintain a copy of the AMP and EPA approval letter on-site and make available to NYSDEC and/or EPA upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 74: Compliance Certification
Effective for entire length of Permit**

Permit ID: 9-1448-00012/00013

Facility DEC ID: 9144800012

Applicable Federal Requirement:40CFR 60.5190, Subpart M

Item 74.1:

The Compliance Certification activity will be performed for the Facility.

Item 74.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must establish the site-specific operating limits specified in paragraphs 40 CFR 60.5190(b) through §60.5190(h) or established in §60.5175, as applicable, during the initial performance tests required in §60.5185. The facility owner or operator must meet the requirements in §60.5210(d) to confirm these operating limits or re-establish new operating limits using operating data recorded during any performance tests or performance evaluations required in §60.5205. The facility owner or operator must follow the data measurement and recording frequencies and data averaging times specified in 40 CFR 60 Subpart M, Table 4 or as established in §60.5175, and must follow the testing, monitoring, and calibration requirements specified in §§60.5220 and 60.5225 or established in §60.5175.

Southtowns Water Resource Recovery Facility shall maintain all records of monitoring, testing, calibration, maintenance, repair, evaluation, inspection and malfunction of sewage sludge incinerators and associated equipment. These records shall be readily available for NYSDEC and/or USEPA review upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 75: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.5190(b), NSPS Subpart M

Item 75.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 0-INCIN

Process: XIN

Emission Source: XIMPL

Emission Unit: 0-INCIN

Process: XIN

Emission Source: XSCRB

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Emission Unit: 0-INCIN
 Process: YIN

Emission Source: YIMPL

Emission Unit: 0-INCIN
 Process: YIN

Emission Source: YSCRB

Regulated Contaminant(s):

CAS No: 007440-43-9	CADMIUM
CAS No: 0NY075-00-0	PARTICULATES
CAS No: 007439-92-1	LEAD

Item 75.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In accordance with 40 CFR 60.5190(b) the facility shall establish the minimum pressure drop across each wet scrubber used to meet the particulate matter, lead, and cadmium emission limits in Table 2 of 40 CFR 60 Subpart MMMM, equal to the lowest 4-hour average pressure drop across each such wet scrubber measured during the most recent performance test demonstrating compliance with the particulate matter, lead, and cadmium emission limits.

The Wet Scrubber System associated with each fluidized bed incinerator consists of a venturi scrubber, followed by an impingement plate scrubber. The operating limit for the minimum total pressure drop across each wet scrubber system shall be confirmed or reestablished during subsequent performance tests in accordance with §60.5205 and §60.5210. If a new limit is established, based on acceptable performance test results, it will apply following the acceptance of the performance test results by NYSDEC, starting on the 1st day of the next semiannual reporting period.

The performance test report and each annual compliance report (see §60.5235(c)(4)(i)) shall include the value of the confirmed or reestablished operating limits for each wet scrubber system and the method used to establish each limit, including all calculations and, if applicable, assumptions made in determining the limits.

In accordance with 40 CFR 60Subpart MMMM Table 4, the minimum pressure drop across each wet scrubber shall be measured continuously, with data recording every 15 minutes. The data averaging period for compliance shall be a 12-hour block. Data recording time refers to the minimum frequency that the continuous monitor or other measuring

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Facility DEC ID: 9144800012

Process: YIN

Emission Source: YSCRB

Item 76.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In accordance with 40 CFR 60.5190(c) the facility shall establish the minimum scrubber liquid flow rate rate (measured at the inlet to each wet scrubber (venturi and impingement plate)) contained in the wet scrubber system, equal to the lowest 4-hour average liquid flow rate measured during the most recent performance test demonstrating compliance with all applicable emission limits.

The Wet Scrubber System associated with each fluidized bed sewage sludge incinerator consists of a venturi scrubber, followed by an impingement plate scrubber and all ancillary equipment. There are two pumps associated with each venturi scrubber - one on the north side and one on the south side. The flowrate into the venturi section of each scrubber is monitored on both sides. The total flow rate into each venturi scrubber is the combination of flow rates from both sides. The total scrubber liquid flow rate into each impingement plate scrubber is measured at one point. The limit for the minimum total scrubber liquid flow rate shall be confirmed or reestablished during subsequent performance tests. If a new limit is established, based on acceptable performance test results, it will apply following the acceptance of the performance test results by NYSDEC, starting on the 1st day of the next semiannual reporting period. The performance test report and each annual compliance report (see §60.5235(c)(4)(i)) shall include the value of the confirmed or reestablished operating limits for each venturi and impingement plate scrubber and the method used to establish each limit, including all calculations and, if applicable, any assumptions made in determining the limits.

The scrubber liquid flow rate shall be measured continuously at the inlet to each wet scrubber, with the data recorded every 15 minutes. The data averaging period for compliance shall be a 12-hr block. Data recording time refers to the minimum frequency that the continuous monitor or other measuring device initially records data. For all data recorded every 15 minutes, the Facility must calculate hourly arithmetic averages, which must be used to calculate the 12-hour block average for demonstrating compliance with the minimum scrubber liquid flow rate limit.

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establish the minimum scrubber liquid pH for each wet scrubber used to meet the sulfur dioxide (SO₂) or hydrogen chloride (HCl) emission limits in Table 2 to this subpart, equal to the lowest 1-hour average scrubber liquid pH measured at the scrubber outlet during the most recent performance test demonstrating compliance with the sulfur dioxide and hydrogen chloride emission limits.

The Wet Scrubber System associated with each fluidized bed sewage sludge incinerator consists of a venturi scrubber, followed by an impingement plate scrubber and all ancillary equipment. Southtowns Water Resource Recovery Facility (Southtowns WRRF) uses the venturi scrubbers to control HCl and SO₂ by adding sodium hydroxide solution at each venturi scrubber inlet. The pH of the spent scrubber liquid is monitored at the outlet of the venturi scrubber. The operating limit for the pH of the scrubber liquid measured at each venturi scrubber outlet shall be confirmed or reestablished during subsequent performance tests using the continuous pH monitor, which is calibrated and operating properly. If a new limit is established, based on acceptable performance test results, it will apply following the acceptance of the performance test results by NYSDEC, starting on the 1st day of the next semiannual reporting period. The performance test report and each annual compliance report (see §60.5235(c)(4)(i)) shall include the value of the confirmed or reestablished operating limits for each venturi scrubber and the method used to establish each limit, including all calculations and, if applicable, any assumptions made in determining the limits.

In accordance with 40 CFR 60 Subpart M Table 4, the minimum scrubber liquid pH shall be measured continuously at the outlet, with the data recorded every 15 minutes. Data recording time refers to the minimum frequency that the continuous monitor or other measuring device initially records data. For all data recorded every 15 minutes, you must calculate hourly arithmetic averages, which must then be used to calculate the 3-hour block averages for demonstrating compliance with the minimum pH limit. A 3-hour block average is calculated by averaging 1-hour averages over 3-hour periods of time, i.e. 12:00 AM to 3:00 AM, 3:00 AM to 6:00 AM, 6:00 AM to 9:00 AM, etc. One hour averages must be calculated in accordance with 40 CFR 60.13(h)(2). Records associated with the 3-hr block averages must be maintained on site in an easily accessed format.

Operation of the wet scrubber below the established minimum pH limit for the scrubber effluent constitutes a deviation, which must be reported in the deviation report

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as specified in §60.5235(d) and Table 6 of Subpart M MMM for each instance that the minimum operating limit is not met. Details of any corrective action taken to remedy the cause of the deviation must be included in the deviation report.

This continuous parameter monitoring system shall be installed, operated, calibrated, maintained and evaluated in accordance with 60.5200 (a)(3)(ii)(C)(1) through (4), §60.5225 and the site-specific monitoring plan for the continuous pH monitoring system. All records, including 1-hour averages for the continuous monitoring of scrubber liquid pH and records that verify and support the establishment of and compliance with the operating limit, shall be maintained in accordance with §60.5230 at the facility for a period of at least 5 years and made available to NYSDEC upon request.

Monitoring Frequency: CONTINUOUS
 Averaging Method: 3-HOUR BLOCK AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 60 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 78: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.5190(e), NSPS Subpart M MMM

Item 78.1:

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

Emission Unit: 0-INCIN	
Process: XIN	Emission Source: XINCI
Emission Unit: 0-INCIN	
Process: YIN	Emission Source: YINCI

Item 78.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In accordance with 40 CFR 60.5190(e) the facility shall establish the minimum combustion chamber operating temperature, equal to the lowest 4-hour average combustion chamber operating temperature measured during the most recent performance test demonstrating compliance with all applicable emission limits.

The limit for the minimum combustion chamber operating temperature shall be confirmed or reestablished during

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subsequent performance tests. If a new limit is established, based on acceptable performance test results, it will apply following the acceptance of the performance test results by NYSDEC, starting on the 1st day of the next semiannual reporting period. The performance test report and each annual compliance report (see §60.5235(c)(4)(i)) shall include the value of the confirmed or reestablished operating limits for minimum combustion chamber operating temperature for each SSI and the method used to establish each limit, including all calculations and, if applicable, any assumptions made in determining the limits.

In accordance with 40CFR60, Subpart M MMM, Table 4, the minimum combustion chamber operating temperature for each FBI shall be measured continuously, with the data recorded every 15 minutes. The data averaging period for compliance shall be a 12-hr block. Data recording time refers to the minimum frequency that the continuous monitor or other measuring device initially records data. For all data recorded every 15 minutes, you must calculate hourly arithmetic averages, which must be used to calculate the 12-hour block average for demonstrating compliance with the minimum combustion chamber operating temperature limit.

Operation of the combustion chamber below the current established minimum combustion chamber operating temperature constitutes a deviation, which must be reported in the deviation report as specified in §60.5235(d) and Table 6 of Subpart M MMM for each instance that the minimum operating limit is not met. Details of any corrective action taken to remedy the cause of the deviation must be included in the deviation report.

This continuous parameter monitoring system shall be designed, installed, operated, calibrated, maintained and evaluated in accordance with 60.5200 (a)(3)(ii)(D)(1) through (4) and the site-specific monitoring plan for the continuous temperature monitoring systems. All records, including 1-hour averages for the continuous monitoring of the temperature of the gas combustion chamber temperature, shall be maintained in accordance with §60.5230 at the facility for a period of at least 5 years and made available to NYSDEC upon request.

Monitoring Frequency: CONTINUOUS
Averaging Method: 12-HOUR BLOCK AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 60 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

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Condition 79: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.5200, Subpart M

Item 79.1:

The Compliance Certification activity will be performed for the Facility.

Item 79.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a Sewage Sludge Incineration (SSI) unit must develop, submit and implement a site-specific monitoring plan for each continuous monitoring system required under 40 CFR 60 Subpart M, as described in §60.5200. The owner or operator of a SSI must also develop, submit and implement a site-specific monitoring plan for the ash handling system, as specified in §60.5200 (d). All monitoring plans must be submitted and updated as specified in §60.5200 (f) through §60.5200 (h).

The monitoring plans developed pursuant to this condition, including any changes, must be maintained on site, and must be provided to NYSDEC upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

Condition 80: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.5205, Subpart M

Item 80.1:

The Compliance Certification activity will be performed for the Facility.

Item 80.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must demonstrate continuous compliance with the emission limits and standards specified in this permit. The facility owner or operator must conduct a performance test for each pollutant on an annual basis

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(between 11 and 13 calendar months following the previous performance test). The facility may conduct the performance test less often in accordance with §60.5205 (a)(3)(i)-(iii), if applicable. Each performance test must be conducted using the test methods, averaging methods, and minimum sampling volumes or durations as specified in Table 2 for each pollutant and according to the testing, monitoring, and calibration requirements specified in 40 CFR 60.5220(a).

The facility must obtain approval from NYSDEC prior to repeating a performance test. The facility may conduct a repeat performance test to establish new values for the operating limits. The facility owner or operator must repeat the performance test within 60 days of a significant permit revision involving a process change, as described in 40 CFR 60.5250. NYSDEC reserves the right to request a repeat performance test at any time.

The permittee shall notify NYSDEC of the time and date of a scheduled stack test and submit a stack testing protocol at least 30 days before the test date. Testing may not proceed without NYSDEC approval of the testing protocol. Stack test final reports shall be submitted to NYSDEC no later than 90 days after test completion.

The facility owner must submit an annual compliance report as specified in §60.5235(c) and a deviation report as specified in §60.5235(d) for each instance that each emission limit in Table 2 to this subpart was not met.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

Condition 81: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.5205(a)(3), Subpart M

Item 81.1:

The Compliance Certification activity will be performed for the Facility.

Item 81.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator may reduce the frequency of performance testing for a given pollutant as follows:

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(1) If the results of the performance test for at least 2 consecutive years demonstrate that emissions are at or below 75 percent of the specified emission limit, and there have been no changes in the operation of the SSI unit or air pollution control equipment that could increase emissions, the facility owner or operator does not have to conduct a performance test for that pollutant for the next 2 years. The facility owner or operator must conduct a performance test during the third year (no more than 37 months from the previous performance test).

(2) If the SSI unit continues to meet the emission limit for the pollutant, the facility may choose to continue conducting performance tests for the pollutant every third year (no more than 37 months from the previous performance test) if emissions remain at or below 75 percent of the emission limit, and no changes are made to the operation of the affected source or air pollution control equipment that could increase emissions.

(3) If a performance test shows emissions exceeded 75 percent of the emission limit for a pollutant, the facility must resume conducting annual performance tests for that pollutant until all performance tests over 2 consecutive years demonstrate compliance.

If the facility chooses to conduct performance tests every three years as described above, an analysis demonstrating that the performance tests used to demonstrate that emissions are at or below 75 percent of the specified emission limit during the past two consecutive years were conducted at the same operating/process conditions for the SSI unit and all associated control and ancillary equipment shall be submitted to NYSDEC. This analysis shall be accepted by NYSDEC before the test schedule is amended.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

Condition 82: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.5210, Subpart M

Item 82.1:

The Compliance Certification activity will be performed for the Facility.

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Item 82.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a sewage sludge incinerator must continuously monitor operating parameters as specified in 40 CFR 60.5210 (a) and meet the requirements of §60.5210 (b) and §60.5210 (c), according to the monitoring and calibration requirements in §60.5225. Operating limits must be confirmed and re-established, as specified in §60.5210 (d).

The facility must continuously monitor the operating parameters specified in §60.5210 (a)(1) using the continuous monitoring equipment and according to the procedures specified in §60.5225. To determine compliance, the data averaging period specified in 40CFR60 Subpart Mmmm Table 4 must be used.

The facility must submit semiannual deviation reports as specified in §60.5235(d) for each instance that one of the operating limits established under Subpart Mmmm are not met. Semiannual reports must be submitted by August 29 for data collected during the first half of the calendar year (January 1 to June 30), and by March 1 of the following year for data collected during the second half of the calendar year (July 1 to December 31).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 83: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.5215, Subpart Mmmm

Item 83.1:

The Compliance Certification activity will be performed for the Facility.

Item 83.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator must conduct an annual inspection of each air pollution control device used to comply with their emission limits, according to 40 CFR 60.5220(c). Each inspection must be conducted no later than 12 months following a previous annual air pollution

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control device inspection.

All necessary repairs must be completed within 10 operating days following an air pollution control device inspection unless the facility obtains written approval from the Department establishing an alternative date for the completion of repairs.

The facility owner or operator must maintain a record of each annual air pollution control device inspection. Each record must include a description of any repairs that were made to the air pollution control device, including the date each repair was completed, and a description of any repairs that were not completed within 10 days following the inspection. Records kept pursuant to this condition must be maintained at the facility for a period of at least five years, and must be made available to NYSDEC upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

Condition 84: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.5225, Subpart M

Item 84.1:

The Compliance Certification activity will be performed for the Facility.

Item 84.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a Sewage Sludge Incinerator (SSI) must install, operate, calibrate, and maintain the continuous parameter monitoring systems according to the requirements in 40 CFR 60.5225 (a)(1) and §60.5225 (a)(2), as applicable and in accordance with the monitoring plan.

If the SSI unit has a bypass stack, the facility must install, calibrate (to manufacturers' specifications), maintain, and operate a device or method for measuring the use of the bypass stack including date, time, and duration.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

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Condition 85: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40 CFR 60.5230, Subpart M

Item 85.1:

The Compliance Certification activity will be performed for the Facility.

Item 85.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator must maintain the following records in an easily accessible location at the facility, as applicable:

- (a) Calendar date of each record;
- (b) Copies of the facility's final control plan and any additional notifications submitted pursuant to 40 CFR 60.5235;
- (c) Documentation of the operator training procedures and records as specified in 40 CFR 63.5230(c);
- (d) Records of the results of initial and annual air pollution control device inspections conducted as specified in 40 CFR 60.5195 and 60.5220(c), including any required maintenance and any repairs not completed within 10 days of an inspection or the time frame established by the Department;
- (e) A record of each performance test, as specified in 40 CFR 60.5230(e);
- (f) Records of continuous monitoring data, where applicable, as specified in 40 CFR 60.5230(f);
- (g) Other records for continuous monitoring systems, where applicable, as specified in 40 CFR 60.5230(g);
- (h) Records of any deviation reports submitted under 40 CFR 60.5235(e) and (f);
- (i) Equipment specifications and related operation and maintenance requirements received from vendors for the incinerator, emission controls, and monitoring equipment;
- (j) Records of inspections, calibration, and validation checks of any monitoring devices as required under 40 CFR

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60.5220 and 60.5225;

(k) Records of the monitoring plans required under 40 CFR 60.5200, and records of performance evaluations required under 40 CFR 60.5205(b)(5);

(l) If the facility owner or operator elects to conduct performance tests less frequently than annually as described in 40 CFR 60.5205(a)(3), annual records that document that the facility's emissions in the two previous consecutive years were at or below 75 percent of the applicable emission limit in Table 1 or 2 of 40 CFR 60 Subpart M, and document that there were no changes in source operations or air pollution control equipment that would cause emissions of the relevant pollutant to increase within the past 2 years;

(m) Records indicating use of the bypass stack, where applicable, including dates, times, and durations as required under 40 CFR 60.5225(d); and

(n) If a malfunction occurs, a record of the information submitted in the facility's annual report in 40 CFR 60.5235(c)(16).

Records kept pursuant to this condition must be maintained at the facility for a period of at least five years and must be made available to NYSDEC upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

**Condition 86: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40 CFR 60.5230, Subpart M

Item 86.1:

The Compliance Certification activity will be performed for the Facility.

Item 86.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator must maintain the following operator training records in an easily accessible location at the facility at all times, as specified in 40 CFR 60.5230(c):

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- (1) Documentation of the following operator training procedures and information:
 - (i) A summary of the applicable standards under 40 CFR 60 Subpart Mmmm;
 - (ii) Procedures for receiving, handling, and feeding sewage sludge;
 - (iii) Incinerator start up, shutdown, and malfunction preventative and corrective procedures;
 - (iv) Procedures for maintaining proper combustion air supply levels;
 - (v) Procedures for operating the incinerator and associated air pollution control devices within the standards established under 40 CFR 60 Subpart Mmmm;
 - (vi) Monitoring procedures for demonstrating compliance with the incinerator operating limits;
 - (vii) Reporting and record keeping procedures;
 - (viii) Procedures for handling ash;
 - (ix) A list of materials burned during the performance test, if in addition to sewage sludge; and
 - (x) For each qualified operator and other plant personnel who may operate the unit according to the provisions of 40 CFR 60.5155(a), the phone and/or pager number at which they can be reached during operating hours.

- (2) Records showing the names of SSI unit operators and other plant personnel who may operate the SSI unit, as follows:
 - (i) Records showing the names of SSI unit operators and other plant personnel who have completed review of the information described in paragraph (1) above, including the date of initial review and each subsequent review:
and
 - (ii) Records showing the names of SSI unit operators who have completed the training described in 40 CFR 60.5130, met the criteria for qualification under 40 CFR 60.5140, and maintained or renewed their certification under 40 CFR 60.5145 or 60.5150. Such records must include documentation of training, including the date of initial qualification and all subsequent renewals of qualification.

- (3) Records showing the periods when no qualified operators were accessible for more than 8 hours, but less than 2 weeks, as required in §60.5155(a).

- (4) Records showing the periods when no qualified operators were accessible for 2 weeks or more along with copies of reports submitted as required in §60.5155(b).

Records kept pursuant to this condition must be made available to the NYSDEC upon request.

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

Condition 87: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.5235, Subpart M

Item 87.1:

The Compliance Certification activity will be performed for the Facility.

Item 87.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a Sewage Sludge Incinerator must submit the reports specified in §60.5235 (a) through §60.5235 (i), as required. See 40 CFR 60 Subpart M, Table 6 for a summary of these reports.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

Condition 88: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.5235(c), NSPS Subpart M

Item 88.1:

The Compliance Certification activity will be performed for the Facility.

Item 88.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a Sewage Sludge Incineration (SSI) unit must submit an annual compliance report to NYSDEC in accordance with the requirements specified in 40 CFR 60.5235(c). Each report shall contain the information listed in 40 CFR 60.5235(c)(1) through (c)(16), as applicable. Annual compliance reports shall be submitted no more than 12 months following the previous annual compliance report. Report submission form shall be in accordance with 40 CFR 60.5235(h). Annual compliance

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reports shall be submitted within 60 days of the end of the calendar year.

Monitoring Frequency: ANNUALLY
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 60 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

**Condition 89: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60.5235(d), NSPS Subpart M

Item 89.1:

The Compliance Certification activity will be performed for the Facility.

Item 89.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a Sewage Sludge Incineration (SSI) unit must submit a deviation report to NYSDEC that includes:

- (i) Any recorded operating parameter level, based on the averaging time specified in Table 4 of 40 CFR 60 Subpart M, is above the maximum operating limit or below the minimum operating limit;
- (iii) Any recorded 24-hour block average emissions level is above the emission limit, if a continuous monitoring system is used to comply with an emission limit;
- (iv) There are visible emissions of combustion ash from an ash conveying system for more than 5 percent of the hourly observation period;
- (v) A performance test was conducted that deviated from any emission limit in Table 2 or Table 3 of 40 CFR 60 Subpart M;
- (vi) A continuous monitoring system was out of control; or
- (vii) The facility had a malfunction that caused or may have caused any applicable emission limit to be exceeded.

Each deviation report prepared pursuant to this condition must contain the information specified in 40 CFR 60.5235(d)(3)(i) through(d)(3)(viii) for continuous monitoring systems used to comply with an associated

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emission limit or operating limit and/or 40 CFR 60.5235(d)(4)(i) through (d)(4)(viii) for each deviation where a continuous monitoring system is not used to comply with the associated emission limit or operating limit, as applicable.

Deviation reports must be submitted by August 29 of that year for data collected during the first half of the calendar year (January 1 to June 30), and by March 1 of the following year for data collected during the second half of the calendar year (July 1 to December 31). Report submission form shall be in accordance with 40CFR60.5235(h). See 40 CFR 60 Subpart M, Table 6 for a summary of this report.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

Condition 90: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 61.32(a), NESHAP Subpart C

Item 90.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007440-41-7 BERYLLIUM

Item 90.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

40 CFR 503.43(a) requires that the firing of sewage sludge in a sewage sludge incinerator shall not violate the requirements in the National Emission Standard for Beryllium in Subpart C of 40 CFR Part 61, which applies to incinerators that process beryllium-containing waste.

In accordance with 40 CFR 61.32(a), emissions to the atmosphere from stationary sources subject to the provisions of this subpart shall not exceed 10 grams (0.022 lb) of beryllium over a 24-hour period. 40 CFR 61 Subpart C states that samples shall be taken over such a period or periods as necessary to accurately determine the maximum emissions which will occur in a 24 hour period. 40 CFR 503 regulations require sampling and analyzing sludge

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prior to incineration every two months for all 503 metals, including Beryllium. Sampling and analyzing the sludge for beryllium will satisfy the requirement to accurately determine the maximum emissions which will occur in a 24 hour period. Sampling and analysis for beryllium in the incinerator exhaust shall be conducted in accordance with the requirements for beryllium under 6 NYCRR 212-2, whenever a modification or change is made to the process, or at the discretion of NYSDEC and/or USEPA.

Records of sampling and analysis of sludge, emission test results and other data needed to determine total emissions shall be retained at the source and made available, for inspection by NYSDEC or USEPA. The annual 40 CFR 503 compliance report shall include information that indicates the requirements in the National Emission Standard for beryllium are met for that reporting period. A copy of the annual report shall be submitted to NYSDEC and USEPA.

Parameter Monitored: BERYLLIUM
 Upper Permit Limit: 10 grams per day
 Reference Test Method: EPA Approved Method
 Monitoring Frequency: BI-MONTHLY (ONCE EVERY 2 MONTHS)
 Averaging Method: 24-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 60 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 91: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 61.55(a), NESHAP Subpart E

Item 91.1:

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

Emission Unit: 0-INCIN Emission Point: XSTAK
 Process: XIN

Emission Unit: 0-INCIN Emission Point: YSTAK
 Process: YIN

Regulated Contaminant(s):
 CAS No: 007439-97-6 MERCURY

Item 91.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

40 CFR 503.43(b) requires that the firing of sewage sludge in a sewage sludge incinerator shall not violate

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the requirements in the National Emission Standard for Mercury in 40 CFR Part 61 Subpart E, which applies to the incineration or drying of sludge that contains mercury and is produced by a treatment plant that processes municipal or industrial waste waters.

In accordance with 40 CFR 61.52(b) emissions to the atmosphere from sludge incineration plants, sludge drying plants, or a combination of these that process wastewater treatment plant sludge shall not exceed 3.2 kg (7.1 lb) of mercury per 24-hour period (3200 g Hg/24-hr period). 40 CFR 503 regulations require sampling and analysis of sludge prior to incineration once every two months for all 503 metals, including mercury. Sampling and analyzing the sludge for mercury will satisfy the requirement to accurately determine the maximum emissions which will occur in a 24 hour period. Sampling and analysis for mercury in the incinerator exhaust shall be conducted in accordance with the requirements for mercury under 40 CFR 60 Subpart MMMM and 6 NYCRR 212-2, whenever a modification or change is made to the process, or at the discretion of NYSDEC and/or USEPA.

Records of sludge sampling and analysis, emission test results and other data needed to determine total emissions shall be retained for a minimum of 5 years and be made available upon request by NYSDEC or USEPA. The annual 40 CFR 503 compliance report shall include information that indicates the requirements in the National Emission Standard for mercury are met for that reporting period.

Parameter Monitored: MERCURY
 Upper Permit Limit: 3200 grams per day
 Reference Test Method: 29 or 101A
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: 24-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 60 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 92: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63, Subpart ZZZZ

Item 92.1:
 The Compliance Certification activity will be performed for the Facility.

Item 92.2:
 Compliance Certification shall include the following monitoring:

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility operates stationary internal combustion engines for emergency backup power that were constructed before 2002 and are applicable to 40 CFR 63 Subpart ZZZZ. The facility must comply with all applicable portions of 40 CFR 63 Subpart ZZZZ.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

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

**Condition 93: Emission Point Definition By Emission Unit
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 93.1:

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

Emission Unit: 0-INCIN

Emission Point: XSTAK			
Height (ft.): 46	Diameter (in.): 15		
NYTMN (km.): 4744.	NYTME (km.): 184.8	Building: stwrrf	

Emission Point: YSTAK			
Height (ft.): 46	Diameter (in.): 15		
NYTMN (km.): 4744.	NYTME (km.): 184.8	Building: stwrrf	

**Condition 94: Process Definition By Emission Unit
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 94.1:

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

Emission Unit: 0-INCIN
Process: XIN Source Classification Code: 5-01-005-16

Process Description:
Dewatered sewage sludge using emulsion polymers (17-25% TS) is ram fed into fluidized bed of sand for incineration. Ultra low sulfur diesel fuel is added as required as an auxiliary fuel source. Fluidizing air is added to the process by a blower discharging air through a

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heat exchanger and into the reactor. Sludge and oil combust in the fluidized sand bed. Combustion gases leave the reactor and then pass through a multi stage wet scrubber where ash is removed from the gases. Exhaust gases then pass through a mercury control system containing mercury-adsorbing modules, spray lances and a mist eliminator before exiting the stack to atmosphere. Ash is discharged into an ash thickener. Thickened ash is dried in a drying bed.

Emission Source/Control: XIMPL - Control
Control Type: IMPINGEMENT PLATE SCRUBBER

Emission Source/Control: XMERC - Control
Control Type: GAS SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: XSCRB - Control
Control Type: VENTURI SCRUBBER

Emission Source/Control: XINCI - Incinerator
Design Capacity: 10.33 dry tons per day
Waste Feed Method: AUTOMATIC RAM FEED
Waste Type: SEWAGE SLUDGE

Item 94.2:

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

Emission Unit: 0-INCIN
Process: YIN
Source Classification Code: 5-01-005-16
Process Description:

Dewatered sewage sludge using emulsion polymers (17-25% TS) is ram fed into fluidized bed of sand for incineration. Ultra low sulfur diesel fuel is added as required as an auxiliary fuel source. Fluidizing air is added to the process by a blower discharging air through a heat exchanger and into the reactor. Sludge and oil combust in the fluidized sand bed. Combustion gases leave the reactor and then pass through a multi stage wet scrubber where ash is removed from the gases. Exhaust gases then pass through a mercury control system containing mercury-adsorbing modules, spray lances and a mist eliminator before exiting the stack to atmosphere. Ash is discharged into an ash thickener. Thickened ash is dried in a drying bed.

Emission Source/Control: YIMPL - Control
Control Type: IMPINGEMENT PLATE SCRUBBER

Emission Source/Control: YMERC - Control
Control Type: GAS SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: YSCRB - Control

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Control Type: VENTURI SCRUBBER

Emission Source/Control: YINCI - Incinerator
Design Capacity: 10.33 dry tons per day
Waste Feed Method: AUTOMATIC RAM FEED
Waste Type: SEWAGE SLUDGE

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STATE ONLY ENFORCEABLE CONDITIONS

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Emergency Defense - 6 NYCRR 201-1.5

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

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

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

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

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

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

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

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

Item B: 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

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standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

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

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.

Condition 95: Contaminant List
Effective for entire length of Permit

Applicable State Requirement: ECL 19-0301

Item 95.1:

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

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

CAS No: 001746-01-6
Name: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

CAS No: 007439-92-1
Name: LEAD

CAS No: 007439-97-6
Name: MERCURY

CAS No: 007440-41-7
Name: BERYLLIUM

CAS No: 007440-43-9
Name: CADMIUM

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

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CAS No: 007647-01-0
Name: HYDROGEN CHLORIDE

CAS No: 018540-29-9
Name: CHROMIUM(VI)

CAS No: 051207-31-9
Name: 2,3,7,8-TETRACHLORODIBENZOFURAN

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

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

**Condition 96: Malfunctions and Start-up/Shutdown Activities
Effective for entire length of Permit**

Applicable State Requirement: 6 NYCRR 201-1.4

Item 96.1:

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

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

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

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

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or

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malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

**Condition 97: Air pollution prohibited
Effective for entire length of Permit**

Applicable State Requirement:6 NYCRR 211.1

Item 97.1:

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 98: Compliance Demonstration
Effective for entire length of Permit**

Applicable State Requirement:6 NYCRR 212-2.2

Item 98.1:

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

Emission Unit: 0-INCIN Process: XIN	Emission Point: XSTAK Emission Source: XIMPL
Emission Unit: 0-INCIN Process: XIN	Emission Point: XSTAK Emission Source: XINCI
Emission Unit: 0-INCIN Process: XIN	Emission Point: XSTAK Emission Source: XSCRB
Emission Unit: 0-INCIN Process: YIN	Emission Point: YSTAK Emission Source: YIMPL
Emission Unit: 0-INCIN Process: YIN	Emission Point: YSTAK Emission Source: YINCI
Emission Unit: 0-INCIN Process: YIN	Emission Point: YSTAK Emission Source: YSCRB
Regulated Contaminant(s): CAS No: 018540-29-9	CHROMIUM(VI)

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Item 98.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Southtowns WRRF owns and operates two fluidized bed sewage sludge incinerators. Stack testing conducted by Southtowns WRRF in 2019 included USEPA Method 0061 for detection of chromium (VI) (Cr(VI)). Test results demonstrated low levels of Cr(VI) in the exhaust of each FBI. Chromium (VI) is a high toxicity air contaminant (HTAC) listed in Table 2 of 6 NYCRR 212-2.2.

The Mass Emission Limit (MEL) for Cr(VI) compounds is 0.1 pound per year (lb/yr) total from all process emission sources. Calculations from the 2019 stack test indicate that the Southtowns WRRF emissions were well below the MEL. Using the 2019 stack test and associated sludge sampling results, a relationship was established to estimate the total annual mass emissions of Cr (VI) from both FBIs using the annual total hours of FBI operation and the average total chromium analytical results for sludge burned during the year (based on bimonthly Part 503 testing). The total annual mass emissions of Cr (VI) will be calculated based on the following equation: Total annual mass emissions of Cr (VI) (lb Cr(VI) / year) = $(2.25E-06 \text{ lb Cr(VI) / hour}) * (\text{Annual operation, both FBIs (hours / year)}) * (\text{Annual Average Total Chromium (mg/kg)}) / (182.5 \text{ mg/kg})$. The total annual mass emissions of Cr(VI) shall be compared to the 0.1 pound per year MEL. If the total annual mass emissions of Cr(VI) do not exceed 0.1 pound, ECSD No 3 Southtowns WRRF will have demonstrated compliance with Part 212 requirements. If the data calculations show that annual actual mass emissions of Cr (VI) exceed the MEL, Southtowns WRRF shall demonstrate compliance with the air cleaning requirements specified in 6 NYCRR §212-2.3(b), Table 4 - Degree of Air Cleaning Required for Non-Criteria Air Contaminants for an A-rated contaminant at the applicable emission rate potential.

Southtowns WRRF shall maintain records used to demonstrate compliance with these requirements for each incinerator, including hours of operation, results of bimonthly Part 503 sludge sampling results for total chromium, calculation of actual annual emissions, comparison to the MEL and calculation of the emission rate potential. These records shall be kept on-site for a minimum of 5 years and shall be available to NYSDEC and/or USEPA representatives upon request.

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Monitoring Frequency: BI-MONTHLY (ONCE EVERY 2 MONTHS)
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 60 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 99: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 212-2.2

Item 99.1:

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

Emission Unit: 0-INCIN Process: XIN	Emission Point: XSTAK Emission Source: XINCI
Emission Unit: 0-INCIN Process: XIN	Emission Point: XSTAK Emission Source: XMERC
Emission Unit: 0-INCIN Process: YIN	Emission Point: YSTAK Emission Source: YINCI
Emission Unit: 0-INCIN Process: YIN	Emission Point: YSTAK Emission Source: YMERC

Regulated Contaminant(s):
 CAS No: 007439-97-6 MERCURY

Item 99.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

An air contaminant listed in Section 212-2.2 Table 2 – High Toxicity Air Contaminant List (HTAC), of this Part, that has facility-wide actual annual mass emissions that do not exceed the mass emission limit (MEL) and, if applicable, the persistent and bioaccumulative (PB) trigger listed for the individual HTAC in Table 2 complies with 6 NYCRR 212 requirements. The actual annual mass emissions from all process operations at the facility for any HTAC that complies with 6 NYCRR 212 in this manner shall not exceed its respective MEL and PB trigger listed for the individual HTAC.

Southtowns Water Resource Recovery Facility (Southtowns WRRF) operates two fluidized bed sewage sludge incinerators that emit mercury, a high toxicity air contaminant, to the ambient air. Each FBI is equipped with a mercury control system, consisting of 3-4 adsorption modules in series, spray lances and a mist eliminator. The

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FBI's are regulated under 40 CFR 60 Subpart M, which requires continuous monitoring of the mercury control system in accordance with a USEPA approved alternative site-specific monitoring plan. Performance tests conducted to satisfy the requirements of 40CFR60 Subpart M (NSPS) show removal efficiencies for mercury ranging from 25.07-76.54 percent. Mercury emissions emitted from the sewage sludge incinerators are also regulated under 40 CFR 61 Subpart E (NESHAP).

A technical review of the emissions test data submitted by Southtowns WRRF was conducted in accordance with NYSDEC DAR-1 Guidelines for the Evaluation and Control of Ambient Air Contaminants under Part 212. NYSDEC's evaluation of the data indicates that the annual actual mass emissions of mercury from the fluidized bed sewage sludge incineration processes occurs at a rate that is less than mercury's MEL of 5 pounds per year and PB trigger of 50 pounds per year, demonstrating compliance with 6 NYCRR Part 212 requirements.

To demonstrate continued compliance, Southtowns WRRF shall monitor the actual annual mass emissions of mercury from the fluidized bed sewage sludge incineration process. Every two months Southtowns WRRF shall calculate the mass emissions of mercury using the maximum feed rate of sludge (dry basis) to each fluidized bed incinerator (FBI) during the previous 2-month period, the mercury content measured in the sewage sludge (dry basis) at the end of that period, the removal efficiency for mercury determined for each process emission source during the performance test or inspection/maintenance test (see monitoring condition under 60.5175), whichever is most current and the hours of operation of each FBI during the previous 2-month period. At the end of the calendar year the bimonthly emissions of mercury shall be totaled to determine the facility-wide actual annual mass emissions. If the annual actual mass emissions of mercury exceed 5 pounds per year, Southtowns WRRF shall demonstrate compliance with the air cleaning requirements specified in 212-2.3(b), Table 4. If the actual annual emissions of mercury do not exceed 5 pounds per year, continued compliance with 6 NYCRR 212-2 requirements will have been confirmed for that calendar year.

Southtowns WRRF shall maintain records pertaining to this requirement for each FBI and associated control equipment including, but not limited to, hours of operation, malfunctions, dry sludge feed rate, sludge additives (type and quantity), performance test results, inspection and maintenance stack test results, calculation of bimonthly actual mass emissions, calculation of actual annual mass

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emissions and comparison to the MEL and PB trigger. In addition, Southtowns WRRF shall maintain sampling and analytical records and reports for detection of mercury in sewage sludge and corresponding sludge moisture content. All records shall be kept on-site for a minimum of 5 years and shall be available to NYSDEC and/or USEPA representatives upon request.

Monitoring Frequency: BI-MONTHLY (ONCE EVERY 2 MONTHS)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 60 days after the reporting period.

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

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