



State of New Jersey

Department of Environmental Protection

Air Quality, Energy and Sustainability

Division of Air Quality

Bureau of Stationary Sources

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PHILIP D. MURPHY

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Commissioner

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Lt. Governor

Air Pollution Control Operating Permit Administrative Amendment

Permit Activity Number: BOP190001

Program Interest Number: 35857

Mailing Address	Plant Location
RONALD ANASTASIO, P.E. EXECUTIVE DIRECTOR SOMERSET RARITAN VALLEY SEWERAGE AUTH 50 POLHEMUS LN Bridgewater, NJ 08807	SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY 50 Polhemus Ln Bridgewater Twp Somerset County

Initial Operating Permit Approval Date: December 6, 2004

Operating Permit Approval Date: August 14, 2019

Operating Permit Expiration Date: December 5, 2019

AUTHORITY AND APPLICABILITY

The New Jersey Department of Environmental Protection (Department) approves and issues this Air Pollution Control Operating Permit under the authority of Chapter 106, P.L. 1967 (N.J.S.A. 26:2C-9.2). This permit is issued in accordance with the air pollution control permit provisions promulgated at Title V of the Federal Clean Air Act, 40 CFR 70, Air Pollution Control Act codified at N.J.S.A. 26:2C and New Jersey State regulations promulgated at N.J.A.C. 7:27-22.

The Department approves this operating permit based on the evaluation of the certified information provided in the permit application that all equipment and air pollution control devices regulated in this permit comply with all applicable State and Federal regulations. The facility shall be operated in accordance with the conditions of this permit. This operating permit supersedes any previous Air Pollution Control Operating Permits issued to this facility by the Department including any general operating permits, renewals, significant modifications, minor modifications, seven-day notice changes or administrative amendments to the permit.

Changes made through this permit activity are provided in the Reason for Application.

PERMIT SHIELD

Equipment at the facility referenced by this modification **is not covered** by the permit shield, pursuant to the provisions of N.J.A.C. 7:27-22.17.

COMPLIANCE SCHEDULES

This operating permit does not include compliance schedules as part of the approved compliance plan.

COMPLIANCE CERTIFICATIONS AND DEVIATION REPORTS

The permittee shall submit to the Department and to United States Environmental Protection Agency (US EPA) periodic compliance certifications, in accordance with N.J.A.C. 7:27-22.19. **The annual compliance certification** is due to the Department and EPA within 60 days after the end of each calendar year during which this permit was in effect. **Semi-annual deviation reports** relating to compliance testing and monitoring are due to the Department within 30 days after the end of the semi-annual period. The schedule and additional details for these submittals are available in Subject Item - FC, of the Facility Specific Requirements of this permit.

ACCESSING PERMITS

The facility's current approved operating permit and any previously issued permits (e.g. superseded, expired, or terminated) are available for download in PDF format at: <http://www.nj.gov/dep/aqpp>. After accessing the website, click on "Approved Operating Permits" listed under "Reports" and then type in the Program Interest (PI) Number as instructed on the screen. If needed, the RADIUS file for your permit, containing Facility Specific Requirements (Compliance Plan), Inventories and Compliance Schedules can be obtained by contacting the Helpline number given below. RADIUS software, instructions, and help are available at the Department's website at <http://www.nj.gov/dep/aqpp>.

HELPLINE

The Operating Permit Helpline is available for any questions at (609) 633-8248 from 9:00 AM to 4:00 PM Monday to Friday.

RENEWING YOUR OPERATING PERMIT AND APPLICATION SHIELD

The permittee is responsible for submitting a timely and administratively complete operating permit renewal application pursuant to N.J.A.C. 7:27-22.30. Only applications which are timely and administratively complete are eligible for an application shield. The details on the contents of the renewal application, submittal schedule, and application shield are available in Section B - General Provisions and Authorities of this permit.

COMPLIANCE ASSURANCE MONITORING

Facilities that are subject to Compliance Assurance Monitoring (CAM), pursuant to 40 CFR 64, shall develop a CAM Plan for modified equipment as well as existing sources. The rule and guidance on how to prepare a CAM Plan can be found at EPA's website: <https://www.epa.gov/air-emissions-monitoring-knowledge-base/compliance-assurance-monitoring>. In addition, CAM Plans must be included as part of the permit renewal application. Facilities that do not submit a CAM Plan may have their permit applications denied, pursuant to N.J.A.C. 7:27-22.3.

ADMINISTRATIVE HEARING REQUEST

If, in your judgment, the Department is imposing any unreasonable condition of approval, you may contest the Department's decision and request an adjudicatory hearing pursuant to N.J.S.A. 52:14B-1 et seq. and N.J.A.C. 7:27-22.32(a). All requests for an adjudicatory hearing must be received in writing by the Department within 20 calendar days of the date you receive this letter. The request must contain the information specified in N.J.A.C. 7:27-1.32 and the information on the [NJ04 - Administrative Hearing Request Checklist and Tracking Form](#) available at <https://www.state.nj.us/dep/aqpp/applying.html>.

If you have any questions regarding this permit approval, please call Adam Pagarigan at (609) 777-0595.

Approved by:



Art Lehberger

Enclosure

CC: Suilin Chan, United States Environmental Protection Agency, Region 2

Facility Name: SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY
Program Interest Number: 35857
Permit Activity Number: BOP190001

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Section A

Facility Name: SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY

Program Interest Number: 35857

Permit Activity Number: BOP190001

POLLUTANT EMISSIONS SUMMARY

Table 1: Total emissions from all Significant Source Operations¹ at the facility.

Facility's Potential Emissions from all Significant Source Operations (tons per year)										
Source Categories	VOC (total)	NO _x	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} ² (total)	Pb	HAPs* (total)	CO _{2e} ³
Emission Units Summary	7.1	14.2	7.6	3.93	1.77	7.71	7.71	0.0007 3	0.173	
Batch Process Summary	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Group Summary	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Total Emissions	7.1	14.2	7.6	3.93	1.77	7.71	7.71	0.0007 3	0.173	30,009

Table 2: Estimate of total emissions from all Insignificant Source Operations¹ and total emissions from Non-Source Fugitives at the facility.

Emissions from all Insignificant Source Operations and Non-Source Fugitive Emissions (tons per year)									
Source Categories	VOC (total)	NO _x	CO	SO ₂	TSP (total)	PM ₁₀ (total)	PM _{2.5} ² (total)	Pb	HAPs (total)
Insignificant Source Operations	14.8	1.13	0.424	0.193	0.034	0.081	NA	NA	1.64
Non-Source Fugitive Emissions ⁴	NA	NA	NA	NA	NA	NA	NA	NA	NA

VOC: Volatile Organic Compounds

NO_x: Nitrogen Oxides

CO: Carbon Monoxide

SO₂: Sulfur Dioxide

N/A: Indicates the pollutant is not emitted or is emitted below the reporting threshold specified in N.J.A.C. 7:27-22, Appendix, Table A and N.J.A.C. 7:27-17.9(a).

TSP: Total Suspended Particulates

Other: Any other air contaminant

regulated under the Federal CAA

PM₁₀: Particulates under 10 microns

PM_{2.5}: Particulates under 2.5 microns

Pb: Lead

HAPs: Hazardous Air Pollutants

CO_{2e}: Carbon Dioxide equivalent

*Emissions of individual HAPs are provided in Table 3 on the next page.

Emissions of "Other" air contaminants are provided in Table 4 on the next page.

¹ Significant Source Operations and Insignificant Source Operations are defined at N.J.A.C. 7:27-22.1.

² PM_{2.5} has been included in air permitting rules as of December 9, 2017. Consequently, PM_{2.5} totals in this section may not be up to date. The Department is in the process of updating these limits during each permit modification, and the entire permit will be updated at the time of permit renewal.

³ Total CO_{2e} emissions for the facility that includes all Significant Source Operations (emission units, batch process, group) and Insignificant Source Operations.

⁴ Non-Source Fugitive Emissions are defined at N.J.A.C. 7:27-22.1 and are included if the facility falls into one or more categories listed at N.J.A.C. 7:27-22.2(a)2.

Section A

Facility Name: SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY

Program Interest Number: 35857

Permit Activity Number: BOP190001

POLLUTANT EMISSIONS SUMMARY

Table 3: Summary of Hazardous Air Pollutants (HAP) Emissions from Significant Source Operations ⁵:

HAP	TPY
Arsenic	0.000915
Beryllium	0.0000917
Cadmium	0.000158
Chromium	0.00264
Hexavalent Chromium	0.000264
Nickel	0.00466
Mercury	0.00364
Hydrogen Chloride	0.0760
Total Dioxins (TMB)	0.000000118
Benzo (a) Pyrene	0.000210
Benzene	0.0832

Table 4: Summary of “Other” air contaminants emissions from Significant Source Operations:

Other Air Contaminant	TPY
NA	

⁵ Do not sum the values below for the purpose of establishing a total HAP potential to emit. See previous page for the allowable total HAP emissions.

Section B

Facility Name: SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY
Program Interest Number: 35857
Permit Activity Number: BOP190001

GENERAL PROVISIONS AND AUTHORITIES

1. No permittee shall allow any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in a quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or which would unreasonably interfere with the enjoyment of life or property. This shall not include an air contaminant that occurs only in areas over which the permittee has exclusive use or occupancy. Requirements relative only to nuisance situations, including odors, are not considered federally enforceable. [N.J.A.C. 7:27-22.16(g)8]
2. Any deviation from operating permit requirements which results in a release of air contaminants shall be reported to the Department as follows:
 - a. If the air contaminants are released in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints, the permittee shall report the release to the Department:
 - i. Immediately on the Department hotline at 1-(877) 927-6337, pursuant to N.J.S.A. 26:2C-19(e); and
 - ii. As part of the compliance certification required in N.J.A.C. 7:27-22.19(f). However, if the deviation is identified through source emissions testing, it shall be reported through the source emissions testing and monitoring procedures at N.J.A.C. 7:27-22.18(e)3; or
 - b. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, the permittee shall report the release to the Department as part of the compliance certification required in N.J.A.C. 7:27-22.19(f), except for deviations identified by source emissions testing reports, which shall be reported through the procedures at N.J.A.C. 7:27-22.18(e)3; or
 - c. If the air contaminants are released in a quantity or concentration which poses no potential threat to public health, welfare or the environment and which will not likely result in citizen complaints, and the permittee intends to assert the affirmative defense afforded by N.J.A.C. 7:27-22.16(l), the violation shall be reported by 5:00 PM of the second full calendar day following the occurrence, or of becoming aware of the occurrence, consistent with N.J.A.C. 7:27-22.16(l). [N.J.A.C. 7:27-22.19(g)]
3. The permittee shall comply with all conditions of the operating permit including the approved compliance plan. Any non-compliance with a permit condition constitutes a violation of the New Jersey Air Pollution Control Act N.J.S.A. 26:2C-1 et seq., or the CAA, 42 U.S.C. §7401 et seq., or both, and is grounds for enforcement action; for termination, revocation and reissuance, or for modification of the operating permit; or for denial of an application for a renewal of the operating permit. [N.J.A.C. 7:27-22.16(g)1]
4. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of its operating permit. [N.J.A.C. 7:27-22.16(g)2]
5. This operating permit may be modified, terminated, or revoked for cause by the EPA pursuant to 40 CFR 70.7(g) and revoked or reopened and modified for cause by the Department pursuant to N.J.A.C. 7:27-22.25. [N.J.A.C. 7:27-22.16(g)3]

6. The permittee 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 this operating permit; or to determine compliance with the operating permit. [N.J.A.C. 7:27-22.16(g)4]
7. The filing of an application for a modification of an operating permit, or of a notice of planned changes or anticipated non-compliance, does not stay any operating permit condition. [N.J.A.C. 7:27-22.16(g)5]
8. The operating permit does not convey any property rights of any sort, or any exclusive privilege. [N.J.A.C. 7:27-22.16(g)6]
9. Upon request, the permittee shall furnish to the Department copies of records required by the operating permit to be kept. [N.J.A.C. 7:27-22.16(g)7]
10. The Department and its authorized representatives shall have the right to enter and inspect any facility subject to N.J.A.C. 7:27-22, or portion thereof, pursuant to N.J.A.C. 7:27-1.31. [N.J.A.C. 7:27-22.16(g)9]
11. The permittee shall pay fees to the Department pursuant to N.J.A.C. 7:27. [N.J.A.C. 7:27-22.16(g)10]
12. Each permittee shall maintain records of all source emissions testing or monitoring performed at the facility and required by the operating permit in accordance with N.J.A.C. 7:27-22.19. Records shall be maintained, for at least five years from the date of each sample, measurement, or report. Each permittee shall maintain all other records required by this operating permit for a period of five years from the date each record is made. At a minimum, source emission testing or monitoring records shall contain the information specified at N.J.A.C. 7:27-22.19(b). [N.J.A.C. 7:27-22.19(a) and N.J.A.C. 7:27-22.19(b)]
13.
 - a. For emergencies (as defined at 40 CFR 70.6(g)(1)) that result in non-compliance with any promulgated federal technology-based standard such as NSPS, NESHAPS, or MACT, a federal affirmative defense is available, pursuant to 40 CFR 70. To assert a federal affirmative defense, the permittee must use the procedures set forth in 40 CFR 70. The affirmative defense provisions described below may not be applied to any situation that caused the Facility to exceed any federally delegated regulation, including but not limited to NSPS, NESHAP, or MACT.
 - b. For situations other than those covered above, an affirmative defense is available for a violation of a provision or condition of the operating permit only if:
 - i. The violation occurred as a result of an equipment malfunction, an equipment startup or shutdown, or during the performance of necessary equipment maintenance; and
 - ii. The affirmative defense is asserted and established as required by N.J.S.A. 26:2C-19.1 through 19.5 and any implementing rules. [N.J.A.C. 7:27-22.16(l)]
14. Each permittee shall meet all requirements of the approved source emissions testing and monitoring protocol during the term of the operating permit. Whenever the permittee makes a replacement, modification, change or repair of a certified CEMS or COMS that may significantly affect the ability of the system to accurately measure or record data, the permittee must recertify the CEMS or COMS in accordance with Section V.B. and Appendix E of Technical Manual 1005. The permittee is responsible for contacting the Emission Measurement Section to determine the need for recertification and/or to initiate the recertification process. The permittee is responsible for any downtime associated with the replacement, modification, change or repair of the CEMS or COMS. [N.J.A.C. 7:27-22.18(j)]
15. Each owner and each operator of any facility, source operation, or activity to which this permit applies is responsible for ensuring compliance with all requirements of N.J.A.C. 7:27-22. If the owner and operator are separate persons, or if there is more than one owner or operator, each owner and each operator is jointly and severally liable for any fees due under N.J.A.C. 7:27-22, and for any penalties for violation of N.J.A.C. 7:27-22. [N.J.A.C. 7:27-22.3]

16. In the event of a challenge to any part of this operating permit, all other parts of the permit shall continue to be valid. [N.J.A.C. 7:27-22.16(f)]
17. Unless specifically exempted from permitting, temporary mobile equipment for short-term activities may be periodically used at major facilities, on site for up to 90 days if the requirements listed below, (a) through (h) are satisfied.
 - a. The permittee will ensure that the temporary mobile equipment will not be installed permanently or used permanently on site.
 - b. The permittee will ensure that the temporary mobile equipment will not circumvent any State or Federal rules and regulations, even for a short period of time, and the subject equipment will comply with all applicable performance standards.
 - c. The permittee cannot use temporary mobile equipment unless the owner or operator of the subject equipment has obtained and maintains an approved Air Pollution Control Permit, issued pursuant to N.J.A.C. 7:27-8 or 22, prior to bringing the temporary mobile equipment to operate at the major facility.
 - d. The permittee is responsible for ensuring the temporary mobile equipment's compliance with the terms and conditions specified in its approved Air Pollution Control Permit when the temporary mobile equipment operates on the property of the permittee.
 - e. The permittee will ensure that temporary mobile equipment utilized for short-term activities will not operate on site for more than a total of 90 days during any calendar year.
 - f. The permittee will keep on site a list of temporary mobile equipment being used at the facility with the start date, end date, and record of the emissions from all such equipment (amount and type of each air contaminant) no later than 30 days after the temporary mobile equipment completed its job in accordance with N.J.A.C. 7:27-22.19(i)3.
 - g. Emissions from the temporary mobile equipment must be included in the emission netting analysis required of the permittee by N.J.A.C. 7:27-18.7. This information is maintained on site by the permittee and provided to the Department upon request in accordance with existing applicable requirements in the FC Section of its Title V permit.
 - h. Where short-term activities (employing temporary mobile equipment) will reoccur on at least an annual basis, the permittee is required to include such activities (and the associated equipment) within one year of the first use, in its Title V permit through the appropriate modification procedures.
18. The permittee shall ensure that no air contaminant is emitted from any significant source operation at a rate, calculated as the potential to emit, that exceeds the applicable threshold for reporting emissions set forth in the Appendix to N.J.A.C. 7:27-22 or 7:27-17.9(a), unless emission of the air contaminant is authorized by this operating permit. [N.J.A.C. 7:27-22.3(c)]
19. Consistent with the provisions of N.J.A.C. 7:27-22.3(e), the permittee shall ensure that all requirements of this operating permit are met. In the event that there are multiple emission limitations, monitoring, recordkeeping, and/or reporting requirements for a given source operation, the facility must comply with all requirements, including the most stringent.
20. Consistent with the provisions of N.J.A.C. 7:27-22.9(c), the permittee shall use monitoring of operating parameters, where required by the compliance plan, as a surrogate for direct emissions testing or monitoring, to demonstrate compliance with applicable requirements.
21. The permittee is responsible for submitting timely and administratively complete operating permit applications:

Administrative Amendments [N.J.A.C. 7:27-22.20(c)];
Seven-Day Notice changes [N.J.A.C. 7:27-22.22(e)];
Minor Modifications [N.J.A.C. 7:27-22.23(e)];
Significant Modifications [N.J.A.C. 7:27-22.24(e)]; and
Renewals [N.J.A.C. 7:27-22.30(b)].

22. The operating permit renewal application consists of a RADIUS application and the application attachment available at the Department's website <http://www.nj.gov/dep/aqpp/applying.html> (Attachment to the RADIUS Operating Permit Renewal Application). Both the RADIUS application and the Application Attachment, along with any other supporting documents must be submitted using the Department's Portal at: <http://njdeponline.com/>. The application is considered timely if it is received at least 12 months before the expiration date of the operating permit. To be deemed administratively complete, the renewal application shall include all information required by the application form for the renewal and the information required pursuant to N.J.A.C. 7:27-22.30(d). However, consistent with N.J.A.C. 7:27-22.30(c), the permittee is encouraged to submit the renewal application at least 15 months prior to expiration of the operating permit, so that any deficiencies can be identified and addressed to ensure that the application is administratively complete by the renewal deadline. Only renewal applications which are timely and administratively complete are eligible for an application shield.
23. Except as allowed in Technical Manual 1005, or otherwise allowed by the Department in this permit or in written guidelines/ procedures issued or approved by the Department, process monitors required by the Compliance Plan included in this permit must be operated at all times when the associated process equipment is operating. The permittee must keep a service log to document any outage.
24. Consistent with the provisions of N.J.A.C. 7:27-22.3(s), Except as otherwise provided in this subchapter, the submittal of any information or application by a permittee including, but not limited to, an application or notice for any change to the operating permit, including any administrative amendment, any minor or significant modification, renewal, a notice of a seven-day notice change, a notice of past or anticipated noncompliance, does not stay any operating permit condition, nor relieve a permittee from the obligation to obtain other necessary permits and to comply with all applicable Federal, State, and local requirements.
25. For all source emissions testing performed at the facility, the phrase "worst case conditions without creating an unsafe condition" used in the enclosed compliance plan is consistent with EPA's National Stack Testing Guidance, dated April 27, 2009, where all source emission testing performed at the facility shall be under the representative (normal) conditions that:
 - i. Represent the range of combined process and control measure conditions under which the facility expects to operate (regardless of the frequency of the conditions); and
 - ii. Are likely to most challenge the emissions control measures of the facility with regard to meeting the applicable emission standards, but without creating an unsafe condition.
26. A Permittee may seek the approval of the Department for a delay in testing required pursuant to this permit by submitting a written request to the appropriate Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.18(k). A Permittee may also seek advanced approval for a longer period for submittal of a source emissions test report required by the permit by submitting a request to the Department's Regional Enforcement Office in accordance with N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.18(k) and N.J.A.C. 7:27-22.19]
27. Applicable requirements derived from an existing or terminated consent decree with EPA will not be changed without advance consultation by the Department with EPA. N.J.A.C. 7:27-22.3(uu).

Section C

Facility Name: SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY

Program Interest Number: 35857

Permit Activity Number: BOP190001

STATE-ONLY APPLICABLE REQUIREMENTS

N.J.A.C. 7:27-22.16(b)5 requires the Department to specifically designate as not being federally enforceable any permit conditions based only on applicable State requirements. The applicable State requirements to which this provision applies are listed in the table titled "State-Only Applicable Requirements."

STATE-ONLY APPLICABLE REQUIREMENTS

The following applicable requirements are not federally enforceable:

<u>SECTION</u>	<u>SUBJECT ITEM</u>	<u>ITEM #</u>	<u>REF. #</u>
B	---	1	---
B	---	13b	---
D	FC	---	3
D	FC	---	9

Section D

**Facility Name: SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY
Program Interest Number: 35857
Permit Activity Number: BOP190001**

FACILITY SPECIFIC REQUIREMENTS AND INVENTORIES

FACILITY SPECIFIC REQUIREMENTS PAGE INDEX

Subject Item and Name **Page Number**

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Insignificant Sources (IS):

IS NJID	IS Description	
IS100	Small boiler firing fuel oil less than 1,000,000 BTU/hr heat input	7
IS101	Heaters firing propane, less than 1,000,000 BTU/hr heat input	8
IS102	Distillate oil tanks not exceeding 10,000 gal. capacity including a 275 gal. waste oil tank.	9
IS103	Gasoline refueling tank not exceeding 2,000 gallon capacity	10
IS140	Natural gas fired heaters less than 1 MM BTU/hr heat input	11
IS200	Wastewater treatment plant sources @ < 100 ppb TXS, and <3,500 ppb of total VOC	12
IS201	Three Sodium Hypochlorite Storage Tanks > 10,000 gal. capacity	13

Emission Units (U):

U NJID	U Designation	U Description	
U1	Incinerator	R2 fluidized bed incinerator #2, three belt filter presses and headworks	14
U130	Thickeners	Sludge thickeners T1 and T2 and wet well	82
U140	B600 Boiler	Building 600 Hot Water Heating Boiler	84

**New Jersey Department of Environmental Protection
Reason for Application**

Permit Being Modified

Permit Class: BOP **Number:** 180001

Description of Modifications: This Administrative Amendment corrected the typographical error in compliance plan applicable requirement for U1 OS2 Ref. #30. The hexavalent chromium emission rate in U1 OS2 Ref.#30 was corrected from 0.00000603 lb/hr to 0.0000603 lb/hr based on 10% of the total chromium emission rate.

BOP190001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: FC

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	General Provisions: The permittee shall comply with all applicable provisions of N.J.A.C. 7:27-1. [N.J.A.C. 7:27- 1]	None.	None.	None.
2	Control and Prohibition of Open Burning: The permittee is prohibited from open burning of rubbish, garbage, trade waste, buildings, structures, leaves, other plant life and salvage. Open burning of infested plant life or dangerous material may only be performed with a permit from the Department. [N.J.A.C. 7:27- 2]	None.	None.	Obtain an approved permit: Prior to occurrence of event (prior to open burning). [N.J.A.C. 7:27- 2]
3	Prohibition of Air Pollution: The permittee shall not emit into the outdoor atmosphere substances in quantities that result in air pollution as defined at N.J.A.C. 7:27-5.1. [N.J.A.C. 7:27- 5]	None.	None.	None.
4	Prevention and Control of Air Pollution Control Emergencies: Any person responsible for the operation of a source of air contamination set forth in Table 1 of N.J.A.C. 7:27-12 is required to prepare a written Standby Plan, consistent with good industrial practice and safe operating procedures, and be prepared for reducing the emission of air contaminants during periods of an air pollution alert, warning, or emergency. Any person who operates a source not set forth in Table 1 of N.J.A.C. 7:27-12 is not required to prepare such a plan unless requested by the Department in writing. [N.J.A.C. 7:27-12]	None.	None.	Comply with the requirement: Upon occurrence of event. Upon proclamation by the Governor of an air pollution alert, warning, or emergency, the permittee shall put the Standby Plan into effect. In addition, the permittee shall ensure that all of the applicable emission reduction objectives of N.J.A.C. 7:27-12.4, Table I, II, and III are complied with whenever there is an air pollution alert, warning, or emergency. [N.J.A.C. 7:27-12]
5	Emission Offset Rules: The permittee shall comply with all applicable provisions of Emission Offset Rules. [N.J.A.C. 7:27-18]	None.	None.	None.

BOP190001

**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	Emission Statements: Submit an annual emission statement electronically to the NJDEP by May 15 of each year (or by mutually agreed upon date, but no later than June 15 of each year). The emission statement shall be based on monitoring, recording and recordkeeping of actual emissions, capture and control efficiencies, process rate and operating data for source operations with the potential to emit certain air contaminants. [N.J.A.C. 7:27-21]	None.	Other: The emission statement and all supporting records shall be maintained on the operating premises for a period of five (5) years from the due date of each emission statement. [N.J.A.C. 7:27-21].	Submit an Annual Emission Statement: Annually and electronically by May 15 or by any mutually agreed upon date, but not later than June 15 of each year. [N.J.A.C. 7:27-21]
7	Compliance Certification: Submit annual compliance certification for each applicable requirement, pursuant to N.J.A.C. 7:27-22.19(f), within 60 days after the end of each calendar year during which this permit was in effect. [N.J.A.C. 7:27-22]	None.	None.	Submit an Annual Compliance Certification: Annually to the Department and EPA within 60 days after the end of each calendar year during which this permit was in effect. The annual compliance certification reporting period will cover the calendar year ending December 31. The certification shall be submitted electronically through the NJDEP online web portal - Periodic Compliance Certification service, and shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official. Access to the NJDEP online web portal shall be obtained by following the instructions at: http://www.state.nj.us/dep/online/ . The certification should be printed for submission to EPA at the following address: US EPA, Region II, Air Compliance Branch, 290 Broadway, New York, NY 10007-1866. [N.J.A.C. 7:27-22]
8	Prevention of Air Pollution from Consumer Products and Architectural Coatings: The permittee shall comply with all applicable provisions of N.J.A.C. 7:27-24 and [N.J.A.C. 7:27-23]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
9	Any operation of equipment which causes off-property effects, including odors, or which might reasonably result in citizen's complaints shall be reported to the Department to the extent required by the Air Pollution Control Act, N.J.S.A. 26:2C-19(e). [N.J.S.A. 26: 2C-19(e)]	Other: Observation of plant operations. [N.J.S.A. 26: 2C-19(e)].	Other: Maintain a copy of all information submitted to the Department. [N.J.S.A. 26: 2C-19(e)].	Notify by phone: Upon occurrence of event. A person who causes a release of air contaminants in a quantity or concentration which poses a potential threat to public health, welfare or the environment or which might reasonably result in citizen complaints shall immediately notify the Department. Such notification shall be made by calling the Environmental Action Hotline at (877) 927-6337. [N.J.S.A. 26: 2C-19(e)]
10	Prevention of Significant Deterioration: The permittee shall comply with all applicable provisions of Prevention of Significant Deterioration (PSD). [40 CFR 52.21]	None.	None.	None.
11	The permittee shall comply with all applicable provisions of National Emission Standards for Hazardous Air Pollutants (NESHAPS) for Asbestos, Subpart M. [40 CFR 61]	Other: Comply with 40 CFR 61.145 and 61.150 when conducting any renovation or demolition activities at the facility. [40 CFR 61].	Other: Comply with 40 CFR 61.153 when conducting any renovation or demolition activities at the facility. [40 CFR 61].	Comply with the requirement: Upon occurrence of event. The permittee shall comply with 40 CFR 61.153 when conducting any renovation or demolition activities at the facility. [40 CFR 61]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
12	<p>Protection of Stratospheric Ozone: 1) If the permittee manufactures, transforms, destroys, imports, or exports a Class I or Class II substance, the permittee is subject to all the requirements as specified at 40 CFR 82, Subpart A; 2) If the permittee performs a service on motor "fleet" vehicles when this service involves an ozone depleting substance refrigerant (or regulated substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified at 40 CFR 82, Subpart B. 3) The permittee shall comply with the standards for labeling of products containing or manufactured with ozone depleting substances pursuant to 40 CFR 82, Subpart E. 4). The permittee shall comply with the standards for recycling and emission reductions of Class I and Class II refrigerants or a regulated substitute substance during the service, maintenance, repair, and disposal of appliances pursuant to 40 CFR 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B. 5) The permittee shall be allowed to switch from any ozone depleting substance to any alternative that is listed in the Significant New Alternative Program (SNAP) promulgated pursuant to 40 CFR 82, Subpart G. [40 CFR 82]</p>	<p>Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].</p>	<p>Other: Comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82].</p>	<p>Comply with the requirement: Upon occurrence of event. The permittee shall comply with 40 CFR 82 Subparts A, B, E, F, and G. [40 CFR 82]</p>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	<p>Deviation Report: In accordance with N.J.A.C. 7:27-22.19(c) and 22.19(d)3, the permittee shall submit to the Department a certified six-month deviation report relating to testing and monitoring required by the operating permit, not including information for stack emissions testing or continuous emissions monitoring which have other reporting schedules specified in the permit (normally, stack test report is submitted within 45 days of test completion and continuous monitor reporting is done quarterly). Pursuant to N.J.A.C. 7:27-22.19(e), the six-month report must address other specified monitoring, including continuous and periodic monitoring requirements found in column 2 and 3, entitled "Monitoring Requirement" and "Recordkeeping Requirement," respectively, of the Facility Specific Requirements section of this permit. These six-month reports shall clearly identify all deviations from operating permit requirements, the probable cause of such deviations, and any corrective actions or preventive measures taken. If no deviations occurred, the report should say so. Any "None" listed in the Submittal/Action Requirement in the Operating Permit is not intended to override the six-month deviation report. [N.J.A.C. 7:27-22.19(d)3, N.J.A.C.7:27-22.19(e), and [N.J.A.C. 7:27-22.19(c)]</p>	None.	Other: The permittee shall maintain deviation reports for a period of five years from the date each report is submitted to the Department. [N.J.A.C. 7:27-22.19(a)].	<p>Submit a report: As per the approved schedule. The six-month reports for other specified testing or monitoring required by the operating permit performed from January 1 through June 30 shall be submitted by July 30 of the same calendar year, and from July 1 through December 31, shall be submitted by January 30 of the following calendar year.</p> <p>The report shall be submitted electronically through the NJDEP online web portal - Periodic Compliance Certification service, and shall be certified pursuant to N.J.A.C. 7:27-1.39 by the responsible official. Access to the NJDEP online web portal shall be obtained by following the instructions at: http://www.state.nj.us/dep/online/ . [N.J.A.C. 7:27-22]</p>
14	<p>Used Oil Combustion: No person shall combust used oil except as authorized pursuant to N.J.A.C. 7:27-20. [N.J.A.C. 7:27-20.2]</p>	None.	None.	<p>Comply with the requirement: Prior to occurrence of event (prior to burning used oil) either register with the Department pursuant to N.J.A.C. 7:27-20.3 or obtain a permit issued by the Department pursuant to N.J.A.C. 7:27-8 or 7:27-22, whichever is applicable. [N.J.A.C. 7:27-20.2(d)]</p>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
15	Prevention of Accidental Releases: Facilities producing, processing, handling or storing a chemical, listed in the tables of 40 CFR Part 68.130, and present in a process in a quantity greater than the listed Threshold Quantity, shall comply with all applicable provisions of 40 CFR 68. [40 CFR 68]	Other: Comply with 40 CFR 68. [40 CFR 68].	Other: Comply with 40 CFR 68. [40 CFR 68].	Other (provide description): Other. Comply with 40 CFR 68 as described in the Applicable Requirement. [40 CFR 68]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: IS100 Small boiler firing fuel oil less than 1,000,000 BTU/hr heat input

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period no longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	The fuel is limited to #2 fuel oil or lighter fuel oil. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: IS101 Heaters firing propane, less than 1,000,000 BTU/hr heat input

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period no longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	The fuel is limited to propane. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: IS102 Distillate oil tanks not exceeding 10,000 gal capacity including a 275 gal waste oil tank.

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Tank contents limited to distillate fuel oil and waste oil. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Sulfur Content in Fuel <= 15 ppmw (0.0015% by weight). Effective July 1, 2016. [N.J.A.C. 7:27- 9.2(a)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
3	The operating temperature shall not be greater than 350 degrees F. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: IS103 Gasoline refueling tank not exceeding 2,000 gallon capacity

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	This insignificant source VOC storage tanks is limited in capacity to less than 2000 gallons. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	The tank contents shall be limited to gasoline. [N.J.A.C. 7:27-22.16(a)]	Other: Tank Contents. Per Delivery.[N.J.A.C. 7:27-22.16(o)].	None.	None.
3	The transfer of gasoline into vehicular fuel tanks or portable containers shall not exceed 10,000 gallons based on the average monthly throughput for any twelve-month period. [N.J.A.C. 7:27-16.3(f)1iv]	Monitored by fuel flow/firing rate instrument each month during operation, based on a 12 calendar month period. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The permittee shall record the annual total throughput of gasoline. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: IS140 Natural gas fired heaters less than 1 MM BTU/hr heat input

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period no longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and. [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	The fuel is limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: IS200 Wastewater treatment plant sources @ < 100 ppb TXS, and <3,500 ppb of total VOC

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum wastewater concentration of these insignificant sources shall be < 100 ppb TXS and < 3500 ppb VOCs [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Subject Item: IS201 Three Sodium Hypochlorite Storage Tanks > 10,000 gal capacity

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The operating temperature of each tank shall not be greater than 350 degrees Fahrenheit. [N.J.A.C. 7:27-22.1]	None.	None.	None.
2	The vapor pressure of the liquid in each tank, excluding the vapor pressure of water, shall be less than 0.02 psia at the liquid's actual temperature or at 70 degrees Fahrenheit, whichever is higher. [N.J.A.C. 7:27-22.1]	None.	None.	None.
3	The tanks shall not emit any air contaminants which may cause an odor detectable outside the property boundaries of the facility. [N.J.A.C. 7:27-22.1]	None.	None.	None.
4	The tanks shall not qualify for any NESHAPS, MACT, or NSPS air pollution control standards, excluding the NSPS requirements to maintain a record of the contents of the tank, the period of storage of these contents, and the maximum true vapor pressure of the liquid stored. [N.J.A.C. 7:27-22.1]	None.	None.	None.
5	Each tank's potential to emit each TXS and each HAP shall not exceed the de minimis reporting thresholds as specified in N.J.A.C. 7:27-22, Appendix. [N.J.A.C. 7:27-22.1]	None.	None.	None.
6	The percentage by weight of all HAPs collectively in the raw material stored in each tank shall be less than 1.0 percent. [N.J.A.C. 7:27-22.1]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 R2 fluidized bed incinerator #2, three belt filter presses and headworks

Subject Item: CD2 Incinerator #2 venturi-scrubber

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Minimum Pressure Drop Across Entire Wet Scrubbing System \geq 26 inches w.c.. [40 CFR 62.15985(b)]	Minimum Pressure Drop Across Entire Wet Scrubbing System: Monitored by pressure drop instrument continuously based on 12-hour block average of one hour block averages. [40 CFR 62.15995(a)(3)(ii)]	Minimum Pressure Drop Across Entire Wet Scrubbing System: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously with data recorded every 15 minutes. [40 CFR 62.16020(a)(1)]	Submit a report: Annually. The permittee must submit an annual compliance report no later than 12 months following the submission of the initial or previous compliance report. [40 CFR 62.16030(c)]
2	Minimum Scrubber Liquid Flow Rate to the venturi and impingement trays combined Flowrate \geq 345 gal/min. [40 CFR 62.15985(c)]	Flowrate: Monitored by scrubber flow rate instrument continuously based on 12-hour block average of one hour averages. [40 CFR 62.15995(a)(3)(ii)]	Flowrate: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously with data recorded every 15 minutes. [40 CFR 62.16020(a)(1)]	Submit a report: Annually. The permittee must submit an annual compliance report no later than 12 months following the submission of the initial or previous compliance report. [40 CFR 62.16030(c)]
3	pH: The permittee must establish the minimum scrubber liquid pH for each scrubber used to meet the sulfur dioxide and hydrogen chloride emission limits in Table 2 to 40CFR 62 Subpart LLL measured during the most recent performance test demonstrating compliance. [40 CFR 62.15985(d)]	pH: Monitored by pH instrument continuously, based on a 3 hour block average. [40 CFR 62.15995(a)(3)(ii)]	pH: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously with data recorded every 15 minutes and data averaged in 3-hour block. [40 CFR 62.16020(a)(1)]	Submit a report: Annually. The permittee must submit an initial compliance report no later than 60 days following the initial performance test. [40 CFR 62.16030(b)]
4	The permittee shall submit a permit modification application to the operating permit to propose the minimum Scrubbing Liquid pH for CD2 based on the performance test. [N.J.A.C. 7:27-22.16(a)]	None.	None.	Submit the required air permit application(s): Within 60 days of stack testing. [N.J.A.C. 7:27-22.16(o)]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 R2 fluidized bed incinerator #2, three belt filter presses and headworks

Subject Item: CD3 Wet electrostatic precipitator

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	<p>Secondary Voltage and Current: The permittee must establish and meet the minimum power input to the electrostatic precipitator collection plates, equal to the lowest 4-hour average secondary electric power measured during the most recent performance test demonstrating compliance with the particulate matter, lead, and cadmium emission limits, if applicable. Power input must be calculated as the product of the secondary voltage and secondary amperage to the electrostatic precipitator collection plates. Both the secondary voltage and secondary amperage must be recorded during the performance test.</p> <p>[40 CFR 62.15985(f)]</p>	<p>Secondary Voltage and Current: Monitored by volt meter continuously and amperage meter continuously. The Permittee shall follow the data measurement and recording frequencies and data averaging times specified in Table 4 to 40CFR62 Subpart LLL. [40 CFR 62.16020(a)(1)(i)]</p>	<p>Secondary Voltage and Current: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously based on 12-hour block average of one hour data recordings. [40 CFR 62.16025(f)(3)(ii)]</p>	<p>Submit a report: Annually. Submit the Initial compliance report including the values for the site-specific operating limits established and the calculations and methods used to establish each operating limit. [40 CFR 62.16030(b)]</p>
2	<p>Flowrate: The permittee must establish and meet the minimum effluent water flow rate at the outlet of the electrostatic precipitator, or as approved by the EPA Administrator per 40CFR62.15995(e). The water flow rate shall equal to the lowest 4-hour average flow rate to the electrostatic precipitator measured during the most recent performance test demonstrating compliance with the particulate matter, lead, and cadmium emission limits.</p> <p>[N.J.A.C.7:27-22.16(a)] and [40 CFR 62.15985(g)]</p>	<p>Other: Monitored by water flowrate instrument at the outlet of the wet electrostatic precipitator, or as approved by the EPA Administrator. The flowrate shall be based on 12-hour block average of one-hour data recordings.[40 CFR 62.15985].</p>	<p>Flowrate: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously</p> <p>. [40 CFR 62.16025(f)(3)(i)]</p>	<p>Submit a report: Annually. Submit the Initial compliance report including the values for the site-specific operating limits established and the calculations and methods used to establish each operating limit. [40 CFR 62.16030(b)]</p>
3	<p>The permittee shall submit a permit modification application to the operating permit to propose the minimum Secondary Voltage and Current, and the minimum water flowrate, for CD3 based on the performance test. [N.J.A.C. 7:27-22.16(a)]</p>	<p>None.</p>	<p>None.</p>	<p>Submit the required air permit application(s): Within 60 days of stack testing. [N.J.A.C. 7:27-22.16(o)]</p>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 R2 fluidized bed incinerator #2, three belt filter presses and headworks

Subject Item: CD4 Headworks building carbon adsorber unit

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The owner or operator shall inspect and maintain the carbon adsorber (CD4) on a schedule necessary to achieve the required control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination once every 2 weeks. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system once every 2 weeks. [N.J.A.C. 7:27-22.16(o)]	None.
2	The carbon adsorption odor control unit shall not be used in a manner which will cause odors being detectable by sense of smell in any area, except for those areas over which the owner has exclusive use or occupancy. [N.J.A.C. 7:27-22.16(e)]	Monitored by odor threshold monitoring daily. A daily inspection of the unit must be conducted in order to determine odor breakthrough of the carbon unit by sense of smell. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The following records pertaining to the carbon adsorption unit shall be maintained: <ul style="list-style-type: none"> - Date of replacement or regeneration - Hours of operation per day - Determination of odor breakthrough . [N.J.A.C. 7:27-22.16(o)]	Other (provide description): As per the approved schedule. The carbon bed must be changed or regenerated when it is determined that odor breakthrough has occurred. [N.J.A.C. 7:27-22.16(o)]

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Facility Specific Requirements**

Emission Unit: U1 R2 fluidized bed incinerator #2, three belt filter presses and headworks

Subject Item: CD5 Ultra high efficiency filter

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Pressure Drop ≥ 2 and Pressure Drop ≤ 20 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop: Monitored by pressure drop instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Emission Unit: U1 R2 fluidized bed incinerator #2, three belt filter presses and headworks

Subject Item: CD6 HEPA filter

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Pressure Drop ≥ 1 and Pressure Drop ≤ 7 inches w.c.. [N.J.A.C. 7:27-22.16(a)]	Pressure Drop: Monitored by pressure drop instrument continuously. [N.J.A.C. 7:27-22.16(o)]	Pressure Drop: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 R2 fluidized bed incinerator #2, three belt filter presses and headworks

Subject Item: CD7 Incinerator #2 carbon adsorber

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall install and operate a sulfur impregnated granular activated carbon (GAC) bed. The GAC shall be designed to control mercury emissions generated from the combustion of sludge from the R2 sludge incinerator #2 (E2). [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system once initially. All documentation of construction shall be kept on-site, and be made available upon request by the Department. [N.J.A.C. 7:27-22.16(o)]	None.
2	Pressure Drop \geq 2 and Pressure Drop \leq 30 inches w.c. The pressure drop range across the carbon adsorption unit. [40 CFR 62.15965(a)]	Pressure Drop: Monitored by pressure drop instrument continuously based a 12-hour block average. [40 CFR 62.16005(a)]	Pressure Drop: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously with data recorded every 15 minutes. [40 CFR 62.16020(a)(1)(i)]	Submit a report: Annually. The permittee must submit an annual compliance report no later than 12 months following the submission of the initial or previous compliance report. [40 CFR 62.16030(c)]
3	Temperature \geq 120 and Temperature \leq 185 degrees F. The temperature of effluent vapor stream from the carbon adsorption unit. [40 CFR 62.15965(a)]	Temperature: Monitored by temperature instrument continuously based a 12-hour block average. [N.J.A.C. 7:27-22.16005(a)]	Temperature: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously with data recorded every 15 minutes. [40 CFR 62.16020(a)(1)(i)]	Submit a report: Annually. The permittee must submit an annual compliance report no later than 12 months following the submission of the initial or previous compliance report. [40 CFR 62.16030(c)]
4	The permittee shall replace the carbon bed based on performance tests for mercury conducted using the test methods, averaging methods, and minimum sampling volumes or durations specified in Table 2 to 40 CFR 62 Subpart LLL and according to the testing, monitoring, and calibration requirements specified in 40 CFR 62.16015(a). [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall maintain records of dates of carbon replacement. [N.J.A.C. 7:27-22.16(o)]	None.
5	Saturated or partially used adsorption material shall be disposed of in a manner that minimizes releases of air contaminants to the atmosphere. This shall be done in accordance with all applicable State and Federal solid waste management regulations. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Facility Specific Requirements**

Emission Unit: U1 R2 fluidized bed incinerator #2, three belt filter presses and headworks

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Summary of Applicable Federal Regulations: 40 CFR Part 60 Subpart A 40 CFR Part 61 Subpart A 40 CFR Part 62 Subpart LLL 40 CFR Part 60 Subpart O 40 CFR Part 61 Subpart C 40 CFR Part 61 Subpart E 40 CFR Part 503 Subpart E [None]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
2	<p>STACK TESTING SUMMARY The permittee shall conduct a stack test using a protocol approved by the Department to demonstrate compliance with emission limits for VOC, NOx, CO, SO2, TSP, PM-10, Lead, Arsenic, Beryllium, Cadmium, Chromium, Hexavalent Chromium, HCl, Mercury, Nickel, Dioxins/Furans (Total), Benzo(A) Pyrene, and Benzene as specified in the compliance plan for U1 OS2.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>For 40 CFR 62 Subpart LLL, the permittee shall operate the sewage sludge incinerator at a minimum of 85 percent of the maximum permitted capacity for each stack test run, as specified in 40CFR62.16015(a)11.</p> <p>THIS STACK TEST IS SUBJECT TO THE SIGNIFICANT MODIFICATION SUPPLEMENTAL FEES PURSUANT TO N.J.A.C. 7:27-22.31. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: The stack test must be conducted either within 60 days of the protocol approval or within 180 days after initial startup of the new or modified source, whichever comes later.</p> <p>If a source is subject to NSPS, extending the testing date beyond 180 days after the source's initial startup requires prior approval from US EPA.</p> <p>[The initial stack test to demonstrate compliance with 40 CFR 62 Subpart LLL Table 2 emission limits (NOx, CO, SO2, TSP, Lead, Cadmium, HCl, Mercury, and Dioxins/Furans (Total), but excluding fugitive visible emissions) is scheduled to be conducted during the week of November 26, 2018]. [N.J.A.C. 7:27-22.18] and [N.J.A.C. 7:27-22.16(o)].</p>	<p>Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 within 60 days from the date of the approved operating permit BOP180001. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline as established by the Administrator and NJDEP, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 60 days after performing the stack test as specified in 40CFR62.16030(h)2. The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)], [N.J.A.C. 7:27-22.19(d)] and. [N.J.A.C. 7:27-22.18(h)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
3	<p>PERIODIC STACK TESTING SUMMARY The permittee shall conduct periodic stack tests using a protocol approved by the Department to demonstrate compliance with emission limits for NOx, CO, SO2, TSP, Lead, Cadmium, HCl, Mercury, and Dioxins/Furans (Total) as specified in the compliance plan for U1 OS2.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>For 40 CFR 62 Subpart LLL, the permittee shall operate the sewage sludge incinerator at a minimum of 85 percent of the maximum permitted capacity for each stack test run, as specified in 40CFR62.16015(a)11. [N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitoring as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 no later than 180 days prior to the testing due date or request from EMS, in writing, to use a previously approved protocol no later than 90 days prior to the testing due date. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT) that is downloaded at: http://www.epa.gov/ttnchie1/ert , unless another format is approved by EMS. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date. A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 60 days after performing the stack test as specified in 40CFR62.16030(h)2. The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)], [N.J.A.C. 7:27-22.19(d)] and. [N.J.A.C. 7:27-22.18(h)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
4	<p>The permittee shall conduct an annual performance test for each pollutant in Table 2 of 40CFR62 Subpart LLL between 11 and 13 calendar months after the initial or previous performance test or within 60 days of a process change.</p> <p>The permittee can conduct performance tests less often for a given pollutant, as specified in the following paragraphs:</p> <p>(i) The permittee can conduct performance tests less often if the performance tests for the pollutant for at least 2 consecutive years show that the emissions are at or below 75-percent of the emission limit specified in Table 2 of 40CFR62 Subpart LLL , and there are no changes in the operation of the affected source or air pollution control equipment that could increase emissions. In this case, the permittee does not have to conduct a performance test for that pollutant for the next 2 years. The permittee must conduct a performance test during the third year and no more than 37 months after the previous performance test.</p> <p>(ii) If the SSI unit continues to meet the emission limit for the pollutant, the permittee may choose to conduct performance tests for the pollutant every third year if the emissions are at or below 75-percent of the emission limit, and if there are no changes in the operation of the affected source or air pollution control equipment that could increase emissions, but each such performance test must be conducted no more than 37 months after the previous performance test. [40 CFR 62.16000(a)]</p>	<p>Other: Conduct the performance test using the test methods, averaging methods and minimum sampling volumes or durations as specified in Table 2 of 40CFR62 Subpart LLL and according to the testing, monitoring and calibration requirements specified in 40 CFR 62.16015(a).[40 CFR 62.16000(a)].</p>	<p>Other: (1) Maintain records of the results of initial, annual and any subsequent performance tests conducted to determine compliance with the emission limits and standards and/or to establish operating limits, as applicable.</p> <p>(2) Retain a copy of the complete performance test report, including calculations.</p> <p>(3) Keep a record of the hourly dry sludge feed rate measured during performance test runs as specified in 40CFR62.16015(a)(2)(i).</p> <p>(4) Keep any necessary records to demonstrate that the performance test was conducted under conditions representative of normal operations.[40 CFR 62.16025(e)].</p>	<p>Submit a report: Annually to the Administrator and to the Department . The permittee shall submit an annual compliance report as specified in 40 CFR 62.16030(c). If the permittee elects to conduct performance tests less frequently as allowed in 40CFR62.16000(a)(3) and did not conduct a performance test during the reporting period, the permittee must include the dates of the last two performance tests, a comparison of the emission levels achieved in the last two performance tests to the 75-percent emission limit threshold specified in 40CFR62.16000(a)(3), and a statement as to whether there have been any process changes and whether the process change resulted in an increase in emissions. [40 CFR 62.16000(d)]</p>

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5	Continued: (iii) If a performance test shows emissions exceeded 75-percent of the emission limit for a pollutant, the permittee must conduct annual performance tests for that pollutant until all performance tests over 2 consecutive years show compliance. [40 CFR 62.16000(a)(3)]	Other: See above monitoring requirements.[40 CFR 62.15955].	Other: See above recordkeeping requirements.[40 CFR 62.16025(e)].	Other (provide description): Other. See above submittal requirements. [40 CFR 62.16000(d)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
6	<p>STACK TESTING SUMMARY The permittee shall conduct a stack test at least 18 months prior to the expiration of the renewed operating permit using an approved protocol to demonstrate compliance with emission limits for VOC, NOx, CO, SO2, TSP, PM-10, Lead, Arsenic, Beryllium, Cadmium, Chromium, Hexavalent Chromium, HCl, Mercury, Nickel, Dioxins/Furans (Total), Benzo(A) Pyrene, and Benzene as specified in the compliance plan for U1 OS2.</p> <p>Testing must be conducted at worst-case permitted operating conditions with regard to meeting the applicable emission standards, but without creating an unsafe condition.</p> <p>For 40 CFR 62 Subpart LLL, the permittee shall operate the sewage sludge incinerator at a minimum of 85 percent of the maximum permitted capacity for each stack test run, as specified in 40CFR62.16015(a)11.</p> <p>The permittee may propose, in the stack test protocol, to use CEMS data to satisfy the stack testing requirements, for NOx and/or CO, with EMS approval. In order for EMS to approve using CEMS data at the time of the stack test, the CEMS must be certified and be in compliance with all daily, quarterly and annual quality assurance requirements. The CEMS shall monitor and record emissions in units identical to those required by the applicable stack testing conditions of this permit. CEMS data, if allowed by this permit, shall be taken at the same worst case conditions as described above.</p> <p>[N.J.A.C. 7:27-22.16(a)]</p>	<p>Other: Monitoring as required under the applicable operating scenario(s). [The initial comprehensive stack testing (U1 OS Summary Ref.#2) to be conducted during the permit term ending December 5, 2019 satisfies this stack testing requirement.][N.J.A.C. 7:27-22.16(o)].</p>	<p>Other: Recordkeeping as required under the applicable operating scenario(s). [N.J.A.C. 7:27-22.16(o)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. Submit a stack test protocol to the Emission Measurement Section (EMS) at Mail Code: 09-01, PO Box 420, Trenton, NJ 08625 at least 30 months prior to the expiration of the approved operating permit. The protocol and test report must be prepared and submitted on a CD using the Electronic Reporting Tool (ERT), unless another format is approved by EMS. The ERT program can be downloaded at: http://www.epa.gov/ttnchie1/ert. Within 30 days of protocol approval or no less than 60 days prior to the testing deadline, whichever is later, the permittee must contact EMS at 609-984-3443 to schedule a mutually acceptable test date.</p> <p>A full stack test report must be submitted to EMS and a certified summary test report must be submitted to the Regional Enforcement Office within 60 days after performing the stack test as specified in 40CFR62.16030(h)2. The test results must be certified by a licensed professional engineer or certified industrial hygienist. [N.J.A.C. 7:27-22.18(e)], [N.J.A.C. 7:27-22.19(d)] and. [N.J.A.C. 7:27-22.18(h)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	If the permittee plans to restart Incinerator #1 after March 21, 2016, the permittee shall complete the control device retrofits and meet the 40 CFR Part 62 Subpart LLL - Federal Plan emission and operating limits for existing SSI units. [N.J.A.C. 7:27-22.16(a)]	None.	None.	Submit the required air permit application(s): As per the approved schedule. The permittee shall submit a permit modification to install control device retrofits at least 6 months prior to the restart of Incinerator #1. [N.J.A.C. 7:27-22.16(o)]
8	Opacity <= 10 % , excluding condensed water vapor, except for a period of not longer than 3 minutes in a consecutive 30 minute period. [N.J.A.C. 7:27-22.16(e)]	<p>Opacity: Monitored by visual determination each week during operation. Visual inspections shall consist of a visual survey of PT2 during daylight hours to identify if the stack has visible emissions, (other than condensed water vapor), greater than the prescribed standard. If visible emissions are observed, the permittee shall do the following:</p> <p>(1) Verify that the equipment and /or control device causing the emission is operating according to manufacturer's specifications and the operating permit compliance plan. If the equipment or control device is not operating properly, the permittee shall take corrective action immediately to eliminate the excess emissions. The permittee must report any permit violation to NJDEP pursuant to N.J.A.C. 7:27- 22.19.</p> <p>(2) If the corrective action taken in step one does not correct the opacity problem within 24 hours, the permittee shall perform a check via a certified opacity reader, in accordance with N.J.A.C. 7:27B-2. Such a test shall be conducted once per day until corrective action is taken to successfully correct the opacity problem. The permittee must report any continuing permit violation to NJDEP pursuant to N.J.A.C. 7:27-22.19. [N.J.A.C. 7:27-22.16(o)]</p>	<p>Opacity: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. The permittee shall maintain the following records: (1) Date and time of inspection; (2) Emission point number; (3) Operational status of equipment; (4) Observed results and conclusions; (5) Description of corrective actions taken, if necessary; (6) Date and time opacity problem was solved, if applicable; (7) N.J.A.C. 7:27B-2 results, if conducted; and (8) Name of person(s) conducting inspection. [N.J.A.C. 7:27-22.16(o)]</p>	None.
9	SO2 <= 2,000 ppmvd. The emission limit applies at all times including startup and shutdown. [N.J.A.C. 7:27- 7.2(b)1]	None.	SO2: Recordkeeping by stack test results once initially. Maintain records of stack testng results. [N.J.A.C. 7:27-22.16(o)]	None.

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10	SO ₂ ≤ 204 lb/hr at any instant from N.J.A.C. 7:27-7.2(r). [N.J.A.C. 7:27-7.2(b)2]	None.	Other: Maintain records of calculations.[N.J.A.C. 7:27-22.16(o)].	None.
11	SO ₂ ≤ 102 lb/hr. Maximum allowable emission rate in any 60 minute period from N.J.A.C. 7:27-7.2(r). [N.J.A.C. 7:27- 7.2(r)]	None.	Other: Maintain records of stack testing results.[N.J.A.C. 7:27-22.16(o)].	None.
12	Sulfur Content in Fuel ≤ 15 ppmw (0.0015% by weight). [N.J.A.C. 7:27-9.2(b)]	Sulfur Content in Fuel: Monitored by review of fuel delivery records per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	Sulfur Content in Fuel: Recordkeeping by invoices / bills of lading / certificate of analysis per delivery showing fuel sulfur content. [N.J.A.C. 7:27-22.16(o)]	None.
13	TSP ≤ 0.1 gr/dscf @ 12% CO ₂ . Maximum emission rate for TSP of no more than 0.1 grains of particles, including ash per cubic foot of dry flue gas at standard conditions corrected to 12 percent carbon dioxide by volume excluding the contribution of auxiliary fuel. [N.J.A.C. 7:27-11.3(a)4]	None.	None.	None.
14	Smoke emissions no greater than the shade or appearance of which is darker than No. 1 of the Ringelmann Smoke Chart, exclusive of water vapor or emissions of such opacity to a degree greater than the emission designated as No. 2 of the Ringelmann Smoke Chart for more than three consecutive minutes. [N.J.A.C. 7:27-11.3(b).2.ii] and [N.J.A.C. 7:27-11.3(b)3ii]	None.	None.	None.
15	No emission of particles of unburned waste or ash which are individually large enough to be visible while suspended in the atmosphere. [N.J.A.C. 7:27-11.3(c)]	None.	None.	None.
16	Operating procedures and rated burning capacity of the incinerator shall be posted at a convenient place as near as practical to the point of operation. [N.J.A.C. 7:27-11.5(b)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
17	VOC (Total) \leq 3.5 lb/hr. Maximum allowable emission rate as determined from Tables 16A and 16B, based on VOC vapor pressure and percent VOC in source gas. [N.J.A.C. 7:27-16.16(c)]	Other: Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions.[N.J.A.C. 7:27-16.16(g)1].	Other: The owner or operator shall maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions. For each different kind of batch or continuous process for which the source operation is used record the following information determined in accordance with the Procedure for Using Table 16A: <ol style="list-style-type: none"> 1. The chemical name and vapor pressure of each VOC used. 2. The percent concentration by volume of VOC in the source gas 3. The volumetric gas flow rate 4. The source gas range classification 5. The maximum allowable emission rate 6. Record the maximum actual emission rate. 7. Maintain any calculation and test data used to determine the actual emission rate. 8. If the source operation is used for more than one process, the dates the source operation is used. <p>or</p> Maintain process records sufficient to demonstrate whether the VOC emission rate from actual operations does not exceed the VOC emission rate under operating conditions for emissions after any control.[N.J.A.C. 7:27-16.16(g)1].	None.
18	Maximum Sludge Feed Rate \leq 30 dry tons/day for any calendar day. [N.J.A.C. 7:27-22.16(a)]	Maximum Sludge Feed Rate: Monitored by sludge feed/charge rate monitoring continuously, based on a 24 hour period and laboratory total percent solids results. Maximum sludge feed rate, in dry tons per day, shall be calculated based on the wet sludge feed daily total and the average sludge total percent solids content. [N.J.A.C. 7:27-22.16(o)]	Maximum Sludge Feed Rate: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously and by manual logging of laboratory percent total solids results and total sludge feed daily. [N.J.A.C. 7:27-22.16(o)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	VOC (Total) <= 7.1 tons/yr based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-20.16(a)]	None.	None.	None.
20	NOx (Total) <= 13.8 tons/yr based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
21	CO <= 7.33 tons/yr based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
22	SO2 <= 3.93 tons/yr based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
23	TSP <= 1.77 tons/yr based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	PM-10 (Total) <= 7.71 tons/yr based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
25	PM-2.5 (Total) <= 7.71 tons/yr based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
26	HAPs (Total) <= 0.172 tons/yr based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
27	Lead Emissions <= 1.46 lb/yr based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
28	Arsenic Emissions <= 1.83 lb/yr based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
29	Beryllium Emissions <= 0.183 lb/yr based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
30	Cadmium Emissions <= 0.315 lb/yr based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	Chromium Emissions <= 5.28 lb/yr based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
32	Chromium (Hexavalent) Emissions <= 0.528 lb/yr based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
33	Hydrogen chloride <= 152.1 lb/yr based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
34	Mercury Emissions <= 7.28 lb/yr based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
35	Nickel Emissions <= 9.32 lb/yr based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
36	Dioxins/Furans (Total) <= 0.000236 lb/yr (total mass basis) or 1.97E-5 lb/yr (toxic equivalency basis), based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
37	Benzo (A) Pyrene Emissions <= 0.421 lb/yr based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
38	No. 2 Fuel Oil Usage <= 300,000 gallons for any 12 consecutive months for incinerator #2. [N.J.A.C. 7:27-22.16(a)]	No. 2 Fuel Oil Usage: Monitored by fuel flow/firing rate instrument continuously or fuel delivery records monthly. [N.J.A.C. 7:27-22.16(o)]	No. 2 Fuel Oil Usage: Recordkeeping by strip chart or data acquisition (DAS) system continuously or manual logging of fuel oil totalizer meter readings or fuel delivery receipts monthly. The gallons for any 12 consecutive months shall be computed by adding the fuel consumption in a given month to that consumed in the preceding 11 months. [N.J.A.C. 7:27-22.16(o)]	None.
39	Benzene <= 166.4 lb/yr based on maximum daily sludge feed rate and 8760 hours per year. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
40	<p>During start-up, shutdown and hot stand-by periods, only No. 2 fuel oil shall be combusted in the incinerator. These periods are defined as follows:</p> <p>Startup is defined in the Federal Plan as the period of time between the activation of the system, including the firing of fuels, and the first feed to the unit. The maximum duration of start-up shall not exceed 48 hours.</p> <p>Shutdown means the period of time after all sewage sludge has been combusted in the primary chamber.</p> <p>Stand-by operation is defined as raising the bed temperature up to 1600 degree F, using the retained heat of sand and no. 2 fuel oil, after shut downs of short duration (less than 30 hours). The maximum duration of firing no. 2 fuel oil during stand-by shall not exceed two hours per calendar day. [N.J.A.C. 7:27-22.16(a)]</p>	None.	None.	None.
41	<p>Temperature at Exit of Combustion Chamber: Upon startup of the incinerator, sludge feed shall not be started until the temperature at the exit of the combustion chamber reaches at least 1,200 degree F. The temperature at the exit of the combustion chamber must reach 1,500 degree F within 30 minutes after sludge feed is started. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Temperature at Exit of Combustion Chamber: Monitored by temperature instrument continuously, based on an instantaneous determination. Temperature shall be monitored at the exit of the combustion chamber before the heat exchanger. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Temperature at Exit of Combustion Chamber: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(e)]</p>	None.
42	<p>Temperature at Exit of Combustion Chamber \geq 1,500 degrees F. After start-up has been completed and the operating temperature has been achieved, the temperature at the exit of the fluidized bed incinerator, as continuously monitored and recorded, must not fall below 1,500 degree F while sewage sludge is fed to the incinerator. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Temperature at Exit of Combustion Chamber: Monitored by temperature instrument continuously, based on an instantaneous determination. Temperature shall be monitored at the exit of the combustion chamber before the heat exchanger. [N.J.A.C. 7:27-22.16(e)]</p>	<p>Temperature at Exit of Combustion Chamber: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(e)]</p>	None.

U1 R2 fluidized bed incinerator #2, three belt filter presses and headworks

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
43	The permittee shall cease charging sludge to the incinerator during periods of venturi scrubber (CD2) or wet ESP (CD3) or mercury control system (CD5, CD6, CD7) downtime. [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. The permittee shall record equipment malfunctions including dates, times, durations and corrective actions taken. [N.J.A.C. 7:27-22.16(o)]	None.
44	<p>The metal content of the sludge fed to incinerator including blended sludge as fed to the incinerator shall be no more than the parts per million by weight (ppmw), dry basis, listed below:</p> <p>Arsenic 30.0 ppmw Cadmium 55.0 ppmw Chromium 1520 ppmw Lead 700 ppmw Nickel 700.0 ppmw Mercury 15.0 ppmw Beryllium 18.0 ppmw [N.J.A.C. 7:27-22.16(e)]</p>	<p>Monitored by sludge sampling daily, based on a weighted 12 month average based on a daily sampling of sludge entering the incinerators and a monthly analysis of a composite of the daily samples. The mercury and lead concentrations are monthly limits. Twelve consecutive monthly averages must be used to calculate the twelve month weighted average.</p> <p>The calculation of the weighted twelve month rolling average will be calculated using the following equation:</p> $\text{ppmw(ave) } j = \frac{\text{summation of } \{ \text{ppmw } k \times \text{weight } k \}}{\text{summation weight } k}$ <p>where ppmw k is the composite ppmw obtained each month from sludge analyses conducted during the 12 months up to and including the j th month, and weight k is the dry weight of the sludge burned during the 12 months up to and including the j th month.. [N.J.A.C. 7:27-22.16(o)]</p>	Recordkeeping by manual logging of parameter each month during operation each record of the weight, concentration, and monthly averages must be kept, in a manner approved by the Department, for five years after recording. [N.J.A.C. 7:27-22.16(o)]	Submit a report: On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1). The permittee shall submit the analysis of the HAP metals concentrations quarterly, within 30 calendar days after the end of each calendar quarter to the Regional Enforcement Office. Each quarterly report shall include the results of the analysis of each month composite samples analyzed during the 12 months period ending with each month in the reporting quarter. [N.J.A.C. 7:27-22.16(o)]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
45	Mercury Concentration in Sludge <= 9.2 ppmv dry basis. [N.J.A.C. 7:27-22.16(a)]	Mercury Concentration in Sludge: Monitored by calculations each month during operation, based on a weighted 12 month average (rolling), using the procedure detailed in the preceding requirement. [N.J.A.C. 7:27-22.16(o)]	Mercury Concentration in Sludge: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation . [N.J.A.C. 7:27-22.16(o)]	Submit a report: On or before every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1). The permittee shall submit the analysis of the mercury concentrations quarterly, within 30 calendar days after the end of each calendar quarter to the Regional Enforcement Office. Each quarterly report shall include the results of the analysis of each month composite samples analyzed during the 12 months period ending with each month in the reporting quarter. [N.J.A.C. 7:27-22.16(o)]
46	Customer sludge may be burned when the metal concentrations in the total sludge burned do not exceed the limits in this permit. The permittee shall develop procedures to ensure that customer sludge will not cause the limits in this permit to be exceeded. [N.J.A.C. 7:27-22.16(e)]	Other: The permittee shall review sludge quality data prior to initial delivery and shall require periodic submittal of sludge analysis by customers to the permittee. [N.J.A.C. 7:27-22.16(e)].	Other: Records of the metal content of customer sludge must be kept for five years from the date of the sludge analysis. [N.J.A.C. 7:27-22.16(e)].	None.
47	The permittee shall conduct simultaneous metal analysis in the sludge being charged to the incinerator during stack testing. The analysis shall be conducted for the following metals: arsenic, beryllium, cadmium, lead, nickel, chromium (total), and mercury. This analysis shall be included in the stack testing protocol. [N.J.A.C. 7:27-22.16(a)]	Monitored by sludge sampling upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by certified lab analysis results upon occurrence of event. Keep copy of completed test report on site. [N.J.A.C. 7:27-22.16(o)]	None.
48	Secondary fuel is limited to No.2 distillate fuel oil for incinerator #2. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
49	Spent carbon from the odor control adsorption unit and spent multi-media coal may be disposed of via combustion in the sludge incinerator. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
50	Spent carbon (non-hazardous) from other facilities may be disposed of via combustion in the sludge incinerator. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

U1 R2 fluidized bed incinerator #2, three belt filter presses and headworks

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**New Jersey Department of Environmental Protection
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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
51	The Permittee shall request approval from the Department's Emission Measurement Section (EMS) to allow continued use of the existing CEMS when a change to the units of measurement is made to a permit limit. [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain readily accessible records of the Permittee's written request to EMS, and the response from EMS . [N.J.A.C. 7:27-22.16(o)].	Comply with the requirement: Upon occurrence of event submit a written request to the EMS within 30 days from the date of the approved operating permit to determine whether a full CEMS recertification is required, whether the change can follow the procedures for data recording and storage equipment upgrades found in the Department's Technical Manual 1005 Section IV.B.3(f), or if continued use of the existing CEMS is allowed. [N.J.A.C. 7:27-22]
52	The owner or operator shall develop a QA/QC plan for each CEMS/COMS required by this permit prepared in accordance with the NJDEP Technical Manual 1005 posted on the AQPP webpage at http://www.state.nj.us/dep/aqpp . [N.J.A.C. 7:27-22.16(a)]	Other: The QA/QC coordinator shall be responsible for reviewing the QA/QC plan on an annual basis. [N.J.A.C. 7:27-22.16(o)].	Other: Maintain readily accessible records of the QA/QC plan including QA data and quarterly reports. [N.J.A.C. 7:27-22.16(o)].	None.
53	All requests, reports, applications, submittal, and other communications required by 40 CFR 60 shall be submitted in duplicate to the EPA Region II Administrator: United States Environmental Protection Agency, Region II Air Compliance Branch 290 Broadway New York, NY 10007-1866. [40 CFR 60.4(a)]	None.	None.	None.
54	Copies of all information submitted to EPA pursuant to 40 CFR Part 60, must also be submitted to the appropriate Regional Enforcement Office of NJDEP. [40 CFR 60.4(b)]	None.	None.	Submit a report: As per the approved schedule to the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60. [40 CFR 60.4(b)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
55	The owner or operator subject to the provisions of 40 CFR Part 60 shall furnish the Administrator written notification or, if acceptable to both the Administrator and the owner or operator of a source, electronic notification, of the date of construction or reconstruction of an affected facility as defined under 40 CFR Part 60 Subpart A. Notification shall be postmarked no later than 30 days after such date. (NSPS Subpart A) [40 CFR 60.7(a)(1)]	None.	None.	Submit notification: Upon occurrence of event to EPA Region 2 and the appropriate Regional Enforcement Office of NJDEP as required by 40 CFR 60.7 [40 CFR 60.7(a)(1)]
56	A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice. [40 CFR 60.7(a)(4)]	None.	None.	Submit notification: Prior to occurrence of event (60 days or as soon as practicable before change is commenced). [40 CFR 60.a(4)]
57	Maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. [40 CFR 60.7(b)]	None.	Recordkeeping by manual logging of parameter upon occurrence of event or maintain readily accessible records of the occurrence and duration of any startup, shutdown, or malfunction in a permanently bound logbook or data acquisition system (DAS)/electronic data storage. [40 CFR 60.7(b)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
58	The owner or operator shall submit to the Administrator, for each pollutant monitored, an excess emissions and monitoring systems performance report and/or summary report form. [40 CFR 60.7(c)]	None.	None.	<p>Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Semi-annually beginning on the 30th day of the 6th month following initial performance tests. The report shall be postmarked by the 30th day following the end of each calendar half. The report shall be in a format as specified at 40 CFR 60.7(d). The summary report form shall contain the information and be in the format shown in figure 1 at 40 CFR 60.7(d) unless otherwise specified by the Administrator. One summary report form shall be submitted for each pollutant monitored at each affected facility.</p> <p>(1) If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in 40 CFR 60.7(c) need not be submitted unless requested by the Administrator.</p> <p>(2) If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in 40 CFR 60.7(c) shall both be submitted. [40 CFR 60.7(c)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
59	Maintain a file of all measurements. [40 CFR 60.7(f)]	None.	<p>Recordkeeping by manual logging of parameter continuously. Maintain a file of all measurements, incl. continuous monitoring systems, monitoring device, & performance testing measurements: all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks: adjustments & maintenance performed on these systems or devices: & all other information required by this part recorded in a permanent form suitable for inspections. The file shall be retained for a least 2 years following the date of such measurements, maintenance, reports, & records, except as follows:</p> <p>(1) For automated CEMS where the calculated data averages do not exclude periods of CEMS breakdown or malfunction & the measured data is recorded & reduce to the form of the pollutant emission standard through the use of a computerized data acquisition system, the owner or operator shall retain the most recent consecutive 3 average periods of subhourly measurements & a file that contains a hard copy of the data acquisition system algorithm used to reduce the measured data into the reportable form of the standard.</p> <p>(2) For CEMS where the measured data is manually reduced and where the calculated data averages do not exclude periods of CEMS breakdown or malfunction, the owner or operator shall retain all subhourly measurements for the most recent reporting period. The subhourly measurements shall be retained for 120 days from the date of the most recent summary or excess emission report submitted to the Administrator. [40 CFR 60.7(f)]</p>	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
60	The owner or operator of such facility shall conduct performance test(s) within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility, or at such other times specified by this part, and at such other times as may be required by the Administrator under section 114 of the Act, except as specified in paragraphs (a)(1),(a)(2), (a)(3), and (a)(4) of 40 CFR 60.8. [40 CFR 60.8(a)]	None.	None.	The owner or operator of such facility shall furnish the Administrator a written report of the results of such performance test(s). Submit a report: As per the approved schedule. [40 CFR 60.8(a)]
61	The owner or operator shall conduct performance tests and data reduced in accordance with the test methods and procedures contained in each applicable subpart, unless otherwise specified and approved by the Administrator. (NSPS Subpart A) [40 CFR 60.8(b)]	None.	None.	None.
62	The owner or operator shall provide the Administrator at least 30 days prior notice of any performance test and shall provide adequate performance testing facilities as specified in 40 CFR Part 60.8(e). (NSPS Subpart A) [40 CFR 60.8(d)]	None.	None.	None.
63	At all times, including periods of startup, shutdown, and malfunction, owners and operators 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. [40 CFR 60.11(d)]	None.	None.	None.
64	Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. [40 CFR 60.8(f)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
65	Compliance with NSPS standards specified in this permit, other than opacity standards, shall be determined only by performance tests established by 40 CFR 60.8, unless otherwise specified in NSPS. [40 CFR 60.11(a)]	None.	None.	None.
66	No owner or operator shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere. [40 CFR 60.12]	None.	None.	None.
67	All continuous monitoring systems shall be in continuous operation and shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period, except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under 40 CFR 60.13(d) of this section. [40 CFR 60.13(e)]	None.	None.	None.
68	Continuous monitoring systems or monitoring devices shall be installed so that representative measurements of emissions or process parameters are obtained. [40 CFR 60.13(f)]	None.	None.	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
69	Owners or operators of all continuous monitoring other than opacity shall reduce all data to 1-hour averages for time periods as defined in 40 CFR 60.2. For continuous monitoring systems other than opacity, 1-hour averages shall be computed from four or more data points equally spaced over each 1-hour period. Data recorder during periods of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph. For owners or operators complying with the requirements in 40 CFR 60.7(f)(1) or (2), averages must include any data recorded during periods of monitor breakdown or malfunction. An arithmetic or integrated average of all data may be used. The data may be recorded in reduced or nonreduced form (e.g., ppm pollutant and percent O ₂ or ng/J of pollutant). All excess emissions shall be converted into units of the standard using the applicable conversion procedures specified in subparts. After conversion into units of the standard, the data may be rounded to the same number of significant digits as used in the applicable subparts to specify the emission limit (e.g., rounded to the nearest 1 percent opacity). [40 CFR 60.13(h)]	None.	None.	None.
70	Changes in time periods for submittal of information and postmark deadlines set forth in this subpart, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19. [40 CFR 60.19]	None.	None.	None.
71	Particulate Emissions <= 1.3 lb/ton dry sludge input. [40 CFR 60.152(a)(1)]	None.	Particulate Emissions: Recordkeeping by stack test results once initially. Maintain record of initial stack test results on site. [N.J.A.C. 7:27-22.16(o)]	None.

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
72	Opacity < 20 %. [40 CFR 60.152(a)(2)]	None.	None.	None.
73	The owner or operator shall install, calibrate, maintain and operate a flow measuring device to determine either the mass or volume of sludge charged to the incinerator. The flow measuring device shall be certified by the manufacturer and shall have an accuracy of +/- 5% over its operating range. [40 CFR 60.153(a)(1)]	Monitored by sludge feed/charge rate monitoring continuously if the measured particulate emission rate exceeds 0.75 lb/dry ton sludge feed. [40 CFR 60.153(a)(1)]	Recordkeeping by strip chart, data acquisition (DAS) system, or other method approved by BTS continuously, if the measured particulate emission rate exceeds 0.75 lb/dry ton sludge feed. The flow measuring device shall be operated continuously and data recorded during all periods of operation of the incinerator. Records shall be maintained for a minimum of 2 years from the date of recording. [40 CFR 60.153(c)(3)]	Submit a report: As per the approved schedule. Semi-annually on January 30 and July 30 of each year, if (1) If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in 40 CFR 60.7(c) need not be submitted unless requested by the Administrator. (2) If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in 40 CFR 60.7(c) shall both be submitted. If the flow measuring device is installed, and the particulate emission rate exceeds 0.75lb/dry ton sludge, the owner or operator shall report the rate of sludge charged to the incinerator over each 1-hour incinerator operating period for each calendar day that an increase in oxygen content of exhaust gas or decrease in scrubber pressure drop is reported pursuant to 40 CFR Part 60.155(a)(2) or (a)(1). [40 CFR 60.155(b)(4)]
74	The owner or operator shall provide access to the sludge charged so that a well-mixed representative grab sample of the sludge can be obtained. [40 CFR 60.153(a)(2)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
75	<p>Pressure Drop Across the Scrubber: The owner or operator 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. 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. [40 CFR 60.153(b)(1)]</p>	<p>Pressure Drop Across the Scrubber: Monitored by pressure drop Instrument continuously. [40 CFR 60.153(b)(1)]</p>	<p>Pressure Drop Across the Scrubber: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Records shall be maintained for a minimum of 2 years from the date of recording. [40 CFR 60.153(c)(1)]</p>	<p>Submit a report: As per the approved schedule. Semi-annually on January 30 and July 30 of each year, if (1) If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report in 40 CFR 60.7c is not required. Operator shall report the 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: For incinerators that achieved an average particulate matter emission rate of 0.38 kg/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. If the measured particulate emission rate exceeds 0.75 lb/dry ton sludge feed, then a percent reduction in pressure drop greater than that calculated according to the following equation shall be reported: $P = -111E + 72.15$ where P=Percent reduction in pressure drop, and E=Average particulate matter emissions (kg/megagram). [40 CFR 60.155(a)(1)(ii)]</p>

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**New Jersey Department of Environmental Protection
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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
76	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. [40 CFR 60.153(b)(2)]	Monitored by continuous emission monitoring system continuously. [40 CFR 60.153(b)(2)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. Records shall be maintained for a minimum of 2 years from the date of recording. [40 CFR 60.153(c)(2)]	Submit a report: As per the approved schedule. Semi-annually on January 30 and July 30 of each year, if (1) If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in 40 CFR 60.7(c) need not be submitted unless requested by the Administrator. (2) If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in 40 CFR 60.7(c) shall both be submitted. If the oxygen monitor is installed, the owner or operator shall submit a record of the average oxygen content in the exhaust gas for each period of 1 hour 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. [40 CFR 60.155(a)(2)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
77	The owner or operator shall install temperature measuring devices in the bed and outlet of the fluidized bed. Each temperature measuring device shall be certified by the manufacturer to have an accuracy of +/-5 percent over its operating range. [40 CFR 60.153(b)(3)]	Monitored by temperature instrument continuously , if the measured particulate emission rate exceeds 0.75 lb/dry ton sludge feed. [40 CFR 60.153(b)(3)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously , if the measured particulate emission rate exceeds 0.75 lb/dry ton sludge feed. The temperature monitoring devices shall be operated continuously and data recorded during all periods of operation of the incinerator. Records shall be maintained for a minimum of 2 years from the date of recording. [40 CFR 60.153(c)(3)]	Submit a report: As per the approved schedule. Semi-annually on January 30 and July 30 of each year, if (1) If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in 40 CFR 60.7(c) need not be submitted unless requested by the Administrator. (2) If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in 40 CFR 60.7(c) shall both be submitted. If the temperature monitor is installed, and the particulate emission rate exceeds 0.75lb/dry ton sludge, the owner or operator shall report the temperatures of every hearth averaged over each 1-hour incinerator operating period for each calendar day that an increase in oxygen content of exhaust gas or decrease in scrubber pressure drop is reported pursuant to 40 CFR Part 60.155(a)(2) or (a)(1). [40 CFR 60.155(b)(3)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
78	If the measured particulate emission rate exceeds 0.75 lb/dry ton sludge feed, the owner or operator shall collect and analyze a grab sample of the sludge fed to the incinerator once per day. The dry sludge content and the volatile solids content of the sample shall be determined in accordance with the method specified under 40 CFR 60.154(b)(5), except that the determination of volatile solids, step (3)(b) of the method, may not be deleted. [40 CFR 60.153(b)(5)]	Monitored by sludge sampling once per calendar day during operation. [40 CFR 60.153(b)(5)]	Recordkeeping by records of calculations based on 40 CFR 60.154(b) upon occurrence of event. Records of the total solids and volatile solids content of the sludge charged to the incinerator shall be maintained for a minimum of 2 years from the date of recording. [40 CFR 60.153(c)(3)]	Submit a report: As per the approved schedule. Semi-annually on January 30 and July 30 of each year, if (1) If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in 40 CFR 60.7(c) need not be submitted unless requested by the Administrator. (2) If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in 40 CFR 60.7(c) shall both be submitted. If a grab sample of sludge is taken, and the particulate emission rate exceeds 0.75lb/dry ton sludge, the owner or operator shall report the moisture and volatile solids content of the daily grab sample of sludge charged to the incinerator for each calendar day that an increase in oxygen content of exhaust gas or decrease in scrubber pressure drop is reported pursuant to 40 CFR Part 60.155(a)(2) or (a)(1). [40 CFR 60.155(b)(6)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
79	<p>The owner or operator of an existing source which had an initial startup before the effective date shall provide the following information in writing to the Administrator within 90 days after the effective date:</p> <ul style="list-style-type: none"> (1) Name and address of the owner or operator. (2) The location of the source. (3) The type of hazardous pollutants emitted by the stationary source. (4) A brief description of the nature, size, design, and method of operation of the stationary source including the operating design capacity of the source. Identify each point of emission for each hazardous pollutant. (5) The average weight per month of the hazardous materials being processed by the source, over the last 12 months preceding the date of the report. (6) A description of the existing control equipment for each emission point including: <ul style="list-style-type: none"> (i) Each control device for each hazardous pollutant; and (ii) Estimated control efficiency (percent) for each control device. (7) A statement by the owner or operator of the source as to whether the source can comply with the standards within 90 days after the effective date. [40 CFR 61.10(a)] 	None.	None.	Submit a report: Once initially. [40 CFR 61.10(a)]

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Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
80	The owner or operator of each stationary source shall maintain and operate the source, including associated equipment for air pollution control, 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 Administrator which may include, but is not limited to, monitoring results, review of operating and maintenance procedures, and inspection of the source. [40 CFR 61.12(c)]	None.	None.	None.
81	No owner or operator shall build, erect, install, or use any article machine, equipment, process, or method, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous dilutants to achieve compliance with a visible emissions standard, and the piecemeal carrying out of an operation to avoid coverage by a standard that applies only to operations larger than a specified size. [40 CFR 61.19]	None.	None.	None.
82	Beryllium Emissions <= 10 grams per 24-hour period (0.022 lb per 24-hour period). [40 CFR 61.32(a)]	None.	None.	None.
83	Mercury Emissions <= 3,200 grams per 24-hour period (7.1 lb per 24-hour period). [40 CFR 61.52(b)]	None.	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
84	The Permittee shall submit a final control plan to the EPA regional office and permitting authority or delegated authority that includes the four items described in paragraphs (a)(1) through (4) of 40 CFR 62.15900: (1) A description of the devices for air pollution control and process changes that you will use to comply with the emission limits and standards and other requirements of this subpart; (2) The type(s) of waste to be burned, if waste other than sewage sludge is burned in the unit; (3) The maximum design sewage sludge burning capacity; and (4) If applicable, the petition for site-specific operating limits under 40CFR62.15965. [40 CFR 62.15900]	None.	Other: Maintain an onsite a copy of the final control plan.[40 CFR 62.15900(b)].	Submit a plan: Within 60 days of stack testing or no later than 60 days following the initial performance test. Submit the final control plan to the EPA regional office and permitting authority or delegated authority that includes the four items described in paragraphs (a)(1) through (4) of 40 CFR 62.15900. [40 CFR 62.16030(a)(1)]
85	No person shall use or dispose of sewage sludge through any practice for which requirements are established in 40 CFR 503 except in accordance with such requirements. [40 CFR 503.3(2)(b)]	None.	None.	None.
86	The permittee shall submit a notification of achievement of compliance that include the following three items: (a) Notification that the final control plan has been submitted and final compliance has been achieved; (b) Any items required to be submitted with the final control plan and final compliance; and (c) Signature of the owner or operator of the SSI unit. [40 CFR 62.15885]	None.	None.	Submit notification: Within 60 days of stack testing or no later than 60 days following the initial performance test. Submit the notification of achievement to the EPA regional office and permitting authority or delegated authority. [40 CFR 62.16030(a)(2)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
87	The permittee shall submit a closure notification to the EPA regional office and permitting authority or delegated authority if you plan to close your SSI unit rather than comply with 40 CFR Part 62 Subpart LLL Federal Plan. The closure notification shall include the date of closure of SSI unit and must be submitted by the date your final control plan is due. [40 CFR 62.15915]	None.	None.	Submit notification: As per the approved schedule. Submit a notification to the EPA regional office and permitting authority or delegated authority by March 21, 2016 as specified in Table 1 of Subpart LLL. [40 CFR 62.16030(a)(4)]
88	The Permittee cannot operate the SSI unit unless a fully trained and qualified SSI unit operator is accessible, either at the facility or can be at the facility within 1 hour. The 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. If all qualified SSI unit operators are temporarily not accessible, you must follow the procedures in 40 CFR 62.15945. [40 CFR 62.15920(a)]	None.	Other: Maintain documentation of training. Operator training and qualification must be obtained through by completing the requirements included in paragraph (c) of 40 CFR 62.15920(c).[40 CFR 62.15920(b)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
89	<p>Training must be obtained by completing an incinerator operator training course that includes, at a minimum, the three elements described in paragraphs (c)(1) through (3) of 40 CFR 62.1590:</p> <p>(1) Training on the 10 subjects listed in the following section:</p> <p>(i) Environmental concerns, including types of emissions;</p> <p>(ii) Basic combustion principles, including products of combustion;</p> <p>(iii) Operation of the specific type of incinerator to be used by the operator, including proper startup, sewage sludge feeding and shutdown procedures;</p> <p>(iv) Combustion controls and monitoring;</p> <p>(v) Operation of air pollution control equipment and factors affecting performance (if applicable);</p> <p>(vi) Inspection and maintenance of the incinerator and air pollution control devices;</p> <p>(vii) Actions to prevent malfunctions or to prevent conditions that may lead to malfunctions;</p> <p>(viii) Bottom and fly ash characteristics and handling procedures;</p> <p>(ix) Applicable federal, state and local regulations, including Occupational Safety and Health Administration workplace standards; and</p> <p>(x) Pollution prevention.</p> <p>(2) An examination designed and administered by the instructor administering the subjects in paragraph (c)(1) of this section.</p> <p>(3) Written material covering the training course topics that may serve as reference material following completion of the course. [40 CFR 62.15920(c)]</p>	None.	Other: Maintain documentation of training at the facility including the the documentation of the operator training procedures specified under 40 CFR 62.15920(c)(1) and make the documentation readily accessible to all SSI unit operators.[40 CFR 62.15950(a)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
90	In order to complete qualification an operator must pass an examination designed and administered by the instructor administering the subjects in paragraph (c)(1) of this section. [40 CFR 62.15920(c)(2)]	None.	Other: Maintain documentation of training. Written material covering the training course topics that may serve as reference material following completion of the course.[40 CFR 62.15920(c)(3)].	None.
91	Operator training must be completed by the later of the following three dates: a) The final compliance date; b) 6 months after the SSI startup or; c) 6 months after an employee assumes responsibility of operating or supervising operation of the SSI unit. [40 CFR 62.15925]	None.	Other: Maintain documentation of training.[40 CFR 62.15920(c)].	None.
92	Operator qualification is valid from the date on which the training course is completed and the operator successfully passes the examination required under 40 CFR 62.15920(c)(2). [40 CFR 62.15930(b)]	None.	Other: Maintain documentation of training.[40 CFR 62.15920(c)].	None.
93	Maintaining operator qualification requires an annual refresher course or review including coverage of the following topics: a) Update of regulations; b) Incinerator operation, including startup and shutdown procedures, sewage sludge feeding and ash handling procedures; c) Inspection and maintenance; d) Prevention of malfunctions or conditions that may lead to malfunctions; and e) Discussion of operating problems encountered by attendees [40 CFR 62.15935]	None.	Other: Maintain documentation of training.[40 CFR 62.15920(c)].	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
94	The permittee must renew a lapsed operator qualification before the operator begin operation of an SSI unit by one of the two methods specified in paragraphs (a) and (b) of 40 CFR 62.15940: (a) For a lapse of less than 3 years, you must complete a standard annual refresher course described in 40 CFR 62.15935; and (b) For a lapse of 3 years or more, you must repeat the initial qualification requirements in 40 CFR 62.15920. [40 CFR 62.15940]	None.	Other: Maintain documentation of training.[40 CFR 62.15920(c)].	None.
95	When 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 62.15950 within the past 12 months. However, you must record the period when a qualified operator was not accessible and include this deviation in the annual report as specified under 40 CFR 62.16030(c) [40 CFR 62.15945(a)]	None.	Other: Maintain records showing the periods when no qualified operators were accessible for more than 8 hours, but less than 2 weeks, as required in 40 CFR 62.15945(a).[40 CFR 62.16025(c)(3)].	Submit documentation of compliance: As per the approved schedule A Qualified Operator Deviation Report must be submitted if all qualified operators are not accessible to the SSI unit for less than 2 weeks. [40 CFR 62.16030(c)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
96	<p>When a qualified operator is not accessible for 2 weeks or more:</p> <p>(1) Notify the Administrator of this deviation in writing within 10 days. In the notice, state what caused this deviation, what you are doing to ensure that a qualified operator is accessible, and when you anticipate that a qualified operator will be accessible.</p> <p>(2) Submit a status report to the Administrator every 4 weeks outlining what you are doing to ensure that a qualified operator is accessible, stating when you anticipate that a qualified operator will be accessible, and requesting approval from the Administrator to continue operation of the SSI unit. You must submit the first status report 4 weeks after you notify the Administrator of the deviation as specified in 40 CFR 62.15945(b)(1).</p> <p>(i) If the Administrator notifies you that your request to continue operation of the SSI unit is disapproved, the SSI unit may continue operation for 30 days, and then must cease operation.</p> <p>(ii) Operation of the unit may resume if a qualified operator is accessible as required under 40 CFR 62.15920(a). You must notify the Administrator within 5 days of having resumed operations and of having a qualified operator accessible. [40 CFR 62.15945(b)]</p>	None.	Other: Maintain records showing the periods when no qualified operators were accessible for 2 weeks or more along with copies of reports submitted as required in 40 CFR 62.15945(b).[40 CFR 62.16025(c)(4)].	<p>Submit notification: As per the approved schedule. If all qualified operators are not accessible for 2 weeks or more, you must take the following actions:</p> <p>(i) Submit a notification of the deviation within 10 days that includes the three items in paragraphs (e)(1)(i)(A) through (C) of 40 CFR 62.16030.</p> <p>(A) A statement of what caused the deviation.</p> <p>(B) A description of actions taken to ensure that a qualified operator is accessible.</p> <p>(C) The date when you anticipate that a qualified operator will be available.</p> <p>(ii) Submit a status report to the Administrator every 4 weeks that includes the three items in paragraphs (e)(1)(ii)(A) through (C) of 62.16030.</p> <p>(A) A description of actions taken to ensure that a qualified operator is accessible.</p> <p>(B) The date when you anticipate that a qualified operator will be accessible.</p> <p>(C) Request for approval from the Administrator to continue operation of the SSI unit. [40 CFR 62.16030(e)(1)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
97	<p>The permittee must establish a program for reviewing the information listed in 40 CFR 62.15920 (c)(1) with each qualified incinerator operator and other plant personnel who may operate the unit according to the provisions of 40 CFR 62.15945(a), according to the following schedule:</p> <p>(1) The initial review of the information listed in 40 CFR 62.15920(c)(1) must be conducted within 6 months after the effective date of this subpart or prior to an employee's assumption of responsibilities for operation of the SSI unit, whichever date is later;</p> <p>(2) Subsequent annual reviews of the information listed in 40 CFR 62.15920(c)(1) must be conducted no later than 12 months following the previous review. [40 CFR 62.15950(b)]</p>	None.	Other: Maintain documentation of training.[40 CFR 62.15920(c)].	None.
98	<p>If your unit was shut down by the Administrator, under the provisions of 40 CFR 62.15945(b)(2)(i), due to a failure to provide an accessible qualified operator, you must notify the Administrator within five days of meeting 40 CFR 62.15945(b)(2)(ii) that you are resuming operation. [40 CFR 62.16030(e)(2)]</p>	None.	None.	<p>Submit notification: As per the approved schedule. Submit notification to the Administrator within five days of meeting 40 CFR 62.15945(b)(2)(ii) that you are resuming operation. [40 CFR 62.16030(e)(2)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
99	The permittee must meet the emission limits and standards specified in Table 2 of 40 CFR Part 62 Subpart LLL. The emission limits and standards apply at all times the unit is operating and during periods of malfunction. The emission limits and standards apply to emissions from a bypass stack or vent while sewage sludge is in the combustion chamber. [40 CFR 62.15955]	<p>Monitored by stack emission testing once initially and annually thereafter. Demonstrate initial compliance using the performance test required in 40 CFR 60.8.</p> <p>The owner or operator must demonstrate that the SSI unit meets the emission limits and standards specified in Table 2 to 40 CFR 62 Subpart LLL for particulate matter, hydrogen chloride, carbon monoxide, dioxins/furans (total mass basis or toxic equivalency basis), mercury, nitrogen oxides, sulfur dioxide, cadmium, lead, and fugitive emissions from ash handling using the performance test. The performance test must be conducted using the test methods, averaging methods, and minimum sampling volumes or durations specified in Table 2 to 40 CFR 62 Subpart LLL and according to the performance testing, monitoring, and calibration requirements specified in 40 CFR 62.16015(a)1 through (a)11. [40 CFR 62.15980(a)]</p>	<p>Other: The permittee must maintain records of performance tests for a period of at least 5 years. All records must be available on site in either paper copy or computer-readable format that can be printed upon request.</p> <p>The permittee shall maintain the following records:</p> <p>(1) The results of the initial, annual, and any subsequent performance tests conducted to determine compliance with the emission limits and standards and/or to establish operating limits, as applicable. (2) A copy of the complete performance test report, including calculations. (3) A record of the hourly dry sludge feed rate measured during performance test runs as specified in 40 CFR 62.16015(a)(2)(i). (4) Any necessary records to demonstrate that the performance test was conducted under conditions representative of normal operations, including a record of the moisture content measured as required in 40 CFR 62.16015(a)(2)(ii) for each grab sample taken of the sewage sludge burned during the performance test. [40 CFR 62.16025(e)].</p>	<p>Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule to the Administrator and to the Department - Emissions Measurement Section (EMS). The permittee shall submit the following information no later than 60 days following the initial performance test.</p> <p>(1) Company name, physical address, and mailing address. (2) Statement by a responsible official, with that official's name, title, and signature, certifying the accuracy of the content of the report. (3) Date of report. (4) The complete test report for the initial performance test results obtained by using the test methods specified in Table 2 to this subpart. (5) If an initial performance evaluation of a continuous monitoring system was conducted, the results of that initial performance evaluation. (6) The values for the site-specific operating limits established pursuant to 40 CFR 62.15960 and 62.15965 and the calculations and methods, as applicable, used to establish each operating limit. [40 CFR 62.16030(b)]</p>

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
100	The permittee has the option to demonstrate compliance with the emission limits specified in Table 2 of 40 CFR Part 62 Subpart LLL using a continuous emissions monitoring system. [40 CFR 62.15980(b)]	Monitored by continuous emission monitoring system continuously. The permittee must use the continuous emissions monitoring system and follow the requirements specified in 40 CFR 62.16015(b). Measure the emissions according to 40 CFR 60.13 to calculate 1-hour arithmetic averages, corrected to 7-percent oxygen (or carbon dioxide). The permittee must demonstrate initial compliance using a 24-hour block average of these 1-hour arithmetic average emission concentrations, calculated using Equation 19-19 in section 12.4.1 of Method 19 of 40 CFR part 60, appendix A-7. [40 CFR 62.15980(b)(2)]	Recordkeeping by data acquisition system (DAS) / electronic data storage continuously. The permittee must use the continuous emissions monitoring system and follow the requirements specified in 40 CFR 62.16015(b). [40 CFR 62.16000(b)]	<p>Submit notification: As per the approved schedule. Submit a notification to the EPA regional office and permitting authority or delegated authority and meet following the requirements:</p> <ol style="list-style-type: none"> (1) You must notify the Administrator 1 month before starting use of the continuous emissions monitoring system. (2) You must notify the Administrator 1 month before stopping use of the continuous emissions monitoring system, in which case you must also conduct a performance test within prior to ceasing operation of the system. (3) You must install, operate, calibrate, and maintain an instrument for continuously measuring and recording the emissions to the atmosphere. (4) During each relative accuracy test run of the continuous emissions monitoring system using the performance specifications in 40 CFR 62.16015 (b)(3)(ii), emission data for each regulated pollutant and oxygen must be collected concurrently by both the continuous emissions monitoring systems and the test methods specified in 40 CFR 62.16015(b)(4)(i) through (viii). Relative accuracy testing must be at representative operating conditions while the SSI unit is charging sewage sludge. (5) You may request that compliance with the emission limits be determined using carbon dioxide measurements corrected to an equivalent of 7-percent oxygen. (6) You must operate the continuous monitoring system and collect data with the continuous monitoring system as specified in 40CFR62.16015(b)(6)(i) through (v). [40 CFR 62.16015(b)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
101	The permittee is not required to establish an operating limit and monitor scrubber liquid flow rate or scrubber liquid pH if continuous monitoring system is used to demonstrate compliance with the emission limits for hydrogen chloride or sulfur dioxide. [40 CFR 62.15985(a)(1)]	None.	None.	None.
102	The permittee 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 permittee is responsible for submitting any supporting information in a timely manner to enable the Administrator to consider the application prior to the performance test. [40 CFR 62.15965(b)]	None.	None.	Submit a performance test protocol: As per the approved schedule to the Administrator and to the Department - Emissions Measurement Section (EMS). The permittee is responsible for submitting any supporting information in a timely manner to enable the Administrator to consider the application prior to the performance test. The Permittee shall not conduct the initial performance test until after the petition has been approved by the Administrator, and the Permittee shall comply with the operating limits as written, pending approval by the Administrator. Neither submittal of an application, nor the Administrator's failure to approve or disapprove the application relieves the Permittee of the responsibility to comply with any provision of 40 CFR62 Subpart LLL. [40 CFR 62.15965(b)(1)]
103	The permittee must establish and meet the site-specific operating limits specified in 40 CFR 62.15985(b) through 40 CFR 62.15985(h), or established in 40 CFR 62.15965, as applicable, during the initial performance tests required in 40 CFR 62.15980. [40 CFR 62.15985(a)]	Monitored by parametric monitoring system continuously. The permittee must follow the data measurement and recording frequencies and data averaging times specified in Table 4 to this subpart or as established in 40 CFR 62.15965, and the permittee shall follow the testing, monitoring, and calibration requirements specified in 40 CFR 62.16015 and 62.16020 or established in 40 CFR 62.15965. [40 CFR 62.15985(a)]	Other: Maintain records of the values for the site-specific operating limits established pursuant to 40 CFR 62.15960 and 62.15965 and the calculations and methods, as applicable, used to establish each operating limit.[40 CFR 62.15960].	Submit a report: As per the approved schedule. Submit the Initial compliance report including the values for the site-specific operating limits established pursuant to 42 CFR 62.15960 and 62.15965 and the calculations and methods, as applicable, used to establish each operating limit. [40 CFR 62.16030(b)(6)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
104	The permittee must meet, as applicable, the operating limits and requirements specified in 40 CFR 62.15960 paragraphs (a) through (d) by the final compliance date. The operating parameters for which you will establish operating limits for a wet scrubber and electrostatic precipitator are listed in Table 4 to 40CFR62 Subpart LLL. The permittee must comply with the operating requirements in paragraph (f) and paragraph (g) of 40 CFR 62.15960 for meeting any new operating limits, re-established in 40 CFR 62.16005. The operating limits apply at all times that sewage sludge is in the combustion chamber [40 CFR 62.15960]	Other: The initial performance test must be conducted using the test methods, averaging methods, and minimum sampling volumes or durations specified in Table 2 to 40CFR62 Subpart LLL and according to the performance testing, monitoring, and calibration requirements specified in 40 CFR 62.16015(a) and (b).[40 CFR 62.15980].	Other: The owner or operator must maintain records of performance tests for a period of at least 5 years. All records must be available on-site in either paper copy or computer-readable format that can be printed upon request. [40 CFR 62.16025].	None.
105	The permittee must meet a site-specific operating limit for minimum operating temperature of the combustion chamber (or afterburner combustion chamber) that you establish in 40 CFR 62.15985. [40 CFR 62.15960(a)]	None.	None.	None.
106	The permittee must meet a site-specific operating limits that you establish in 40 CFR 62.15985 for each operating parameter associated with each air pollution control device (wet scrubber, electrostatic precipitator and afterburner). [40 CFR 62.15960(b)]	None.	None.	None.
107	The permittee must meet the operating requirements in the site-specific fugitive emission monitoring plan, submitted as specified in 40 CFR 62.15955(d) to ensure that the ash handling system will meet the emission standard for fugitive emissions from ash handling, if applicable. [40 CFR 62.15960(d)]	None.	None.	Submit a plan: As per the approved schedule. Submit a monitoring plan, at least 60 days before the initial compliance test date, specifying the ash handling system operating procedures that the permittee will follow to meet the fugitive emissions limit. [40 CFR 60.5200(d)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
108	The permittee may submit an application to the Administrator for approval of alternate monitoring requirements to demonstrate compliance with the standards of Subpart LLL, subject to the provisions of 40CFR62.15995(e)(1) to (6). [40 CFR 62.15995(e)]	None.	None.	to the EPA Administrator for approval of alternate monitoring requirements. Submit the required air permit application(s): At no specified schedule. [40 CFR 62.15995(e)]
109	<p>The permittee must monitor the feed rate and moisture content of the sewage sludge fed to the sewage sludge incinerator, as specified:</p> <p>(1) Continuously monitor the sewage sludge feed rate and calculate a daily average for all hours of operation during each 24-hour period. Keep a record of the daily average feed rate, as specified in 40 CFR 62.16025(f)(3)(ii).</p> <p>(2) Take at least one grab sample per day of the sewage sludge fed to the sewage sludge incinerator. If the permittee takes more than one grab sample in a day, calculate the daily average for the grab samples. Keep a record of the daily average moisture content, as specified in 40 CFR 60.5230(f)(3)(ii). [40 CFR 62.15960(f)]</p>	Monitored by sludge feed/charge rate monitoring continuously, based on a daily average. [40 CFR 62.15960(f)(1)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. All daily average values recorded for the feed rate and moisture content of the sewage sludge fed to the sewage sludge incinerator, monitored and calculated as specified in 40 CFR 62.16025(f)(3)ii. [40 CFR 62.16025(f)(3)(ii)]	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
110	<p>If the permittee use an air pollution control device other than a wet scrubber, fabric filter, electrostatic precipitator, activated carbon injection, or afterburner to comply with the emission limits in 40 CFR 62.15955, you must meet the applicable operating limits and requirements in 40 CFR 60.4850, and establish applicable operating limits according to 40 CFR 62.15985. [40 CFR 62.15965(a)]</p>	<p>Other: The initial performance test must be conducted using the test methods, averaging methods, and minimum sampling volumes or durations specified in Table 2 to 40CFR62 Subpart LLL and according to the testing, monitoring, and calibration requirements specified in 40 CFR 62.16015(a) and (b).[40 CFR 62.15980].</p>	<p>Other: The owner or operator must maintain records of performance tests for a period of at least 5 years. All records must be available on-site in either paper copy or computer-readable format that can be printed upon request.[40 CFR 62.16025].</p>	<p>Submit notification: As per the approved schedule. Submit a petition to 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 permittee is responsible for submitting any supporting information in a timely manner to enable the Administrator to consider the application prior to the performance test. Your petition must include the following five items:</p> <ul style="list-style-type: none"> (i) Identification of the specific parameters you propose to monitor. (ii) A discussion of the relationship between these parameters and emissions of regulated pollutants, identifying how emissions of regulated pollutants change with changes in these parameters, and how limits on these parameters will serve to limit emissions of regulated pollutants. (iii) A discussion of how you will establish the upper and/or lower values for these parameters that will establish the operating limits on these parameters, including a discussion of the averaging periods associated with those parameters for determining compliance. (iv) A discussion identifying the methods you will use to measure and the instruments you will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments. (v) A discussion identifying the frequency and methods for recalibrating the instruments you will use for monitoring these parameters. [40 CFR 62.15965(b)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
111	The emission limits and standards apply at all times and during periods of malfunction. 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). For determining compliance with the CO concentration limit using CO CEMS, the correction to 7 percent oxygen does not apply during periods of startup or shutdown. Use the measured CO concentration without correcting for oxygen concentration in averaging with other CO concentrations (corrected to 7 percent O ₂) to determine the 24-hour average value. [40 CFR 62.15970]	None.	None.	None.
112	The permittee shall conduct an air pollution control device inspection according to 40 CFR 62.16015 (c) by March 21, 2016. If a new air pollution control device is installed after the final compliance date, inspection of the air pollution control device must be conducted within 60 days after installation of the control device. All necessary repairs must be completed by the Permittee within 10 operating days following the air pollution control device inspection unless the Permittee obtains written approval from the Administrator establishing a date whereby all necessary repairs of the SSI unit must be completed. [40 CFR 62.15990]	Other: Air pollution control device inspection must include: 1.) Inspection of air pollution control device for proper operation, 2.) General observation of equipment to assure it is well maintained and in good operating condition. 3.) Develop a site-specific monitoring plan according to the requirements of 40 CFR 62.15995. [40 CFR 62.16015(c)].	Other: Maintain records of the results of initial and annual air pollution control device inspections, including any required maintenance and any repairs not completed within 10 days of an inspection or the timeframe established by the Administrator.[40 CFR 62.16025(d)].	Submit a report: Annually. The Permittee must submit an annual compliance report. The Permittee must submit its first annual compliance report no later than 12 months following the submission of the initial compliance report. The Permittee must submit subsequent annual compliance reports no more than 12 months following the previous annual compliance report. [40 CFR 62.16030(c)]
113	The permittee shall prepare and submit to the Administrator for approval a site-specific monitoring plan for each continuous monitoring system (CMS) according to the requirements in 40 CFR 62.15995 section a through c. [40 CFR 62.15995]	None.	Other: Maintain records of monitoring plans required under 40 CFR 62.15995, and records of performance evaluations required under 40 CFR 62.16000(b)(5).[40 CFR 62.16025(k)].	Submit a plan: As per the approved schedule. Site-specific monitoring plans must be submitted to the administrator according to the requirements in 40 CFR 62.15995 section (a) and (b) for approval at least 60 days before initial performance evaluation of a continuous monitoring system. [40 CFR 62.15995(f)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
114	Conduct an initial performance evaluation of each continuous monitoring system (CMS) in accordance with the monitoring plan and to 40 CFR 60.13(c). [40 CFR 62.15995(c)]	None.	None.	Conduct a performance evaluation and calibration check: Once initially. Conduct performance evaluation for each CMS at frequency specified in monitoring plan at least 60 days of installation of the continuous monitoring system. [40 CFR 62.15995(c)]
115	The permittee shall submit a monitoring plan specifying the ash handling system operating procedures that will meet the fugitive emissions limit specified in Table 2 of 40CFR62 Subpart LLL, if applicable. [40 CFR 62.15995(d)]	None.	None.	Submit a plan: As per the approved schedule. Submit the monitoring plan for your ash handling system at least 60 days before your initial compliance test date. [40 CFR 62.15995(g)]
116	Monitoring plans involving alternate monitoring requirements to demonstrate compliance may be submitted to the Administrator for approval, subject to the provisions of 40 CFR 62.15995(e)(1) through (6). [40 CFR 62.15995(e)]	None.	None.	Submit a plan: As per the approved schedule. An alternate monitoring plan must be submitted for approval no later than notification of the initial performance test. [40 CFR 62.15995(e)(3)]
117	An updated monitoring plan must be submitted if there are any changes in monitoring procedures, or if there is a process change. [40 CFR 62.15995(h)]	None.	None.	None.
118	The Permittee shall demonstrate that the SSI unit meets the operating limits established according to 40 CFR 62.15985 and 40 CFR 62.16005(d) for each applicable operating parameter. [40 CFR 62.160005(a)(1)]	Monitored by parametric monitoring system continuously. The Permittee must continuously monitor the operating parameters using the continuous monitoring equipment and according to the procedures specified in 40 CFR 62.16020. To determine compliance, the Permittee shall use the data averaging period specified in Table 4 to 40CFR62 Subpart LLL. [40 CFR 62.16005(a)]	None.	None.

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
119	Operation above the established maximum, below the established minimum, or outside the allowable range of the operating limits specified in 40 CFR 62.16005(a) constitutes a deviation from your operating limits established. [40 CFR 62.16005(b)]	Monitored by parametric monitoring system continuously based on the averaging time specified in Table 4 to 40CFR62 Subpart LLL. [40 CFR 62.16005(a)]	<p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Record any deviation that is above the maximum operating limit or below the minimum operating limit established under 40CFR62 Subpart LLL.</p> <p>For each deviation where the Permittee are using a continuous monitoring system to comply with an associated emission limit or operating limit, report the items described:</p> <ol style="list-style-type: none"> 1. Company name and address 2. Statement by a responsible official 3. The total operating time of each affected SSI 4. The calendar dates and times the unit deviated from the emission limits, emission standard, or operating limits 5. The averaged and recorded data for those dates 6. Duration and cause of each deviation 7. A copy of any performance test report that showed a deviation from the emission limits or standards 8. A brief description of any malfunction, a description of actions taken during the malfunction to minimize emissions, and corrective action taken <p>[40 CFR 62.16030(d)]</p>	<p>Submit a report: As per the approved schedule Submit initial, annual, and deviation reports electronically or in paper format, postmarked on or before the submittal due dates.</p> <p>Within 60 days after the date of completing each performance test, as defined in 40 CFR 63.2, conducted to demonstrate compliance with this subpart, the Permittee shall submit relative accuracy test audit (i.e., reference method) data and performance test (i.e., compliance test) data, except opacity data, electronically to EPA's Central Data Exchange (CDX) by using the Electronic Reporting Tool (ERT) (see http://www.epa.gov/ttn/chief/ert/ert_tool.htm or other compatible electronic spreadsheet. Only data collected using test methods compatible with ERT are subject to this requirement to be submitted electronically into EPA's WebFIRE database. [40 CFR 62.16030(h)]</p>
120	No person shall use or dispose of sewage sludge through any practice for which requirements are established in 40 CFR 503 except in accordance with such requirements. [40 CFR 503.3(2)(b)]	None.	None.	None.
121	Any person who prepares sewage sludge shall ensure that the applicable requirements in 40 CFR 503 are met when the sewage sludge is fired in a sewage sludge incinerator. [40 CFR 503.7]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
122	Representative samples of sewage sludge that is fired in a sewage sludge incinerator shall be collected and analyzed. [40 CFR 503.8(a)]	None.	None.	None.
123	Carbon monoxide \leq 100 ppmvd @ 7% O ₂ . Maximum monthly average concentration of carbon monoxide in the exit gas from the sewage sludge incinerator stack. [40 CFR 503.40(c)(2)]	Carbon monoxide: Monitored by continuous emission monitoring system continuously. [40 CFR 503.40(c)(1)]	Carbon monoxide: Recordkeeping by strip chart or data acquisition (DAS) system continuously. Records of the carbon monoxide concentration in the exit gas and a calibration and maintenance log for the instrument used to measure the carbon monoxide concentration shall be maintained for a minimum of 5 years. [40 CFR 503.40(c)(3)]	Submit a report: As per the approved schedule. 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 40CFR 503.47(b) through 503.47(h) to the following permitting authority on February 19 of each year. Submit the documents electronically to the Environmental Protection Agency via the Central Data Exchange (CDX) website using the NeT NPDES eReporting program service. [40 CFR 503.48]
124	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. [40 CFR 503.43(a)]	Other: The frequency of monitoring for beryllium shall be as required in subpart C of 40 CFR part 61. [40 CFR 503.46(a)(1)].	Other: Information that indicates the requirements in the National Emission Standard for beryllium in subpart C of 40 CFR part 61 are met. Records shall be maintained for a minimum of 5 years. [40 CFR 503.47(d)].	Submit a report: As per the approved schedule. 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 40CFR 503.47(b) through 503.47(h) to the following permitting authority on February 19 of each year. Submit the documents electronically to the Environmental Protection Agency via the Central Data Exchange (CDX) website using the NeT NPDES eReporting program service . [40 CFR 503.48]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
125	Firing of sewage sludge in a sewage sludge incinerator shall not violate the requirements in the National Emission Standard for Mercury in subpart E of 40 CFR part 61. [40 CFR 503.43(b)]	Other: The frequency of monitoring for mercury as required in subpart E of 40 CFR part 61.[40 CFR 503.46(a)(1)].	Other: Information that indicates the requirements in the National Emission Standard for mercury in subpart E of 40 CFR part 61 are met. Records shall be maintained for a minimum of 5 years.[40 CFR 503.47(e)].	Submit a report: As per the approved schedule. 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 40CFR 503.47(b) through 503.47(h) to the following permitting authority on February 19 of each year. Submit the documents electronically to the Environmental Protection Agency via the Central Data Exchange (CDX) website using the NeT NPDES eReporting program service . [40 CFR 503.48]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
126	<p>The average daily concentration for lead in sewage sludge fed to a sewage sludge incinerator shall not exceed the concentration calculated using Equation in Monitoring requirement. [40 CFR 503.43(c)]</p>	<p>Monitored by calculations at the approved frequency , once per 60 days (six times per year) per Table 1 of 40 CFR 503.46.</p> <p>(1) The average daily concentration for lead in sewage sludge fed to a sewage sludge incinerator shall not exceed the concentration calculated using the following equation:</p> $C = (0.1) \times (\text{NAAQS}) \times 86,400 / (\text{DF}) \times (1 - \text{CE}) \times (\text{SF})$ <p>Where: C = Average daily concentration of lead in sewage sludge. NAAQS = National Ambient Air Quality Standard for lead in micrograms per cubic meter. 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)</p> <p>(2) DF shall be determined from an air dispersion model in accordance with 40 CFR 503.43(e). (i) When the sewage sludge stack height is 65 meters or less, the actual sewage sludge incinerator stack height shall be used in the air dispersion model to determine the DF.</p> <p>(3) CE shall be determined from a performance test of the sewage sludge incinerator in accordance with 40 CFR 503.43(e). [40 CFR 503.43(c)]</p>	<p>Recordkeeping by manual logging of parameter at the approved frequency. Records of the average daily concentration for lead in sewage sludge fed and the sewage sludge feed rate shall be maintained for a minimum of 5 years from the date of recording. [40 CFR 503.47 (i)] and. [40 CFR 503.47(b)]</p>	<p>Submit a report: As per the approved schedule. 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 40CFR 503.47(b) through 503.47(h) to the following permitting authority on February 19 of each year. Submit the documents electronically to the Environmental Protection Agency via the Central Data Exchange (CDX) website using the NeT NPDES eReporting program service . [40 CFR 503.48]</p>

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
127	<p>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 Monitoring requirement. [40 CFR 503.43(d)]</p>	<p>Monitored by calculations at the approved frequency , once per 60 days (6 times per year) per Table 1 of 40 CFR 503.46, using equation: $C = (RSC) \times (86,400) / (DF) \times (1-CE) \times (SF)$, Where: C = Avg. 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).</p> <p>The RSC for arsenic,cadmium, and nickel used in the equation shall be: Arsenic = 0.023 micrograms per cubic meter; Cadmium = 0.057 micrograms per cubic meter; Nickel = 2.0 micrograms per cubic meter.</p> <p>The RSC for chromium used in above equation shall be 0.064 micrograms per cubic meter or shall be calculated using the following equation: $RSC = (0.0085) / (r)$, Where: RSC=risk specific concentration for chromium in micrograms per cubic meter; r=decimal fraction of the hexavalent chromium concentration in the total chromium concentration measured in the exit gas from the sewage sludge incinerator stack in hundredths.</p> <p>The DF shall be determined from an air dispersion model in accordance with 40 CFR 503.43(e).</p> <p>(i) The actual sewage sludge incinerator stack height shall be used in the air dispersion model to determine the DF. CE shall be determined from a performance test per 40 CFR 503.43(e). [40 CFR 503.43(d)]</p>	<p>Recordkeeping by manual logging of parameter at the approved frequency. Records of the average daily concentration for arsenic, cadmium, chromium and nickel in sewage sludge fed and the sewage sludge feed rate shall be maintained for a minimum of 5 years from the date of recording. [40 CFR 503.47 (i)] and. [40 CFR 503.47(b)]</p>	<p>Submit a report: As per the approved schedule. 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 40CFR 503.47(b) through 503.47(h) to the following permitting authority on February 19 of each year. Submit the documents electronically to the Environmental Protection Agency via the Central Data Exchange (CDX) website using the NeT NPDES eReporting program service . [40 CFR 503.48]</p>

U1 R2 fluidized bed incinerator #2, three belt filter presses and headworks

OS Summary

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
128	Significant changes in geographic or physical characteristics at the incinerator site or in incinerator operating conditions require new air dispersion modeling or performance testing to determine a new dispersion factor or a new control efficiency that will be used to calculate revised pollutant limits. [40 CFR 503.43(e)(5)]	None.	None.	None.
129	An instrument that continuously measures and records the oxygen concentration in the sewage sludge incinerator stack exit gas shall be installed, calibrated, operated, and maintained for a sewage sludge incinerator. [40 CFR 503.45(b)]	Monitored by continuous emission monitoring system continuously. [40 CFR 503.46(b)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Records of the oxygen concentration in the exit gas from the sewage sludge and a calibration and maintenance log for the instrument used to measure the oxygen concentration in the exit gas from the sewage sludge incinerator stack shall be maintained for a minimum of 5 years. [40 CFR 503.47(h)]	None.
130	An instrument that continuously measures and records information used to determine the moisture content in the sewage sludge incinerator stack exit gas shall be installed, calibrated, operated, and maintained for a sewage sludge incinerator. [40 CFR 503.45(c)]	Other: Monitored by an instrument that continuously measures and records information used to determine the moisture content. The monitoring shall be established and in use within 120 days from the effective date of the minor modification. [40 CFR 503.46(b)].	Recordkeeping by strip chart, data acquisition (DAS) system, or other method approved by BTS continuously. Records of the information used to measure moisture content in the exit gas from the sewage sludge incinerator stack and a calibration and maintenance log for the instrument used to measure the information used to measure moisture content in the exit gas from the sewage sludge incinerator stack shall be maintained for a minimum of 5 years. The recordkeeping shall be established and in use within 120 days from the effective date of the minor modification. [40 CFR 503.47(h)]	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
131	An instrument that continuously measures and records combustion temperatures shall be installed, calibrated, operated, and maintained for a sewage sludge incinerator. [40 CFR 503.45(d)]	Monitored by temperature instrument continuously. [40 CFR 503.46(b)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Records of the operating combustion temperatures for the sewage sludge incinerator and a calibration and maintenance log for the instrument used to measure the combustion temperatures in the exit gas from the sewage sludge incinerator stack shall be maintained for a minimum of 5 years. [40 CFR 503.47(f)]	None.
132	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. [40 CFR 503.45(e)]	Monitored by temperature instrument continuously. [40 CFR 503.46(b)]	Recordkeeping by strip chart or data acquisition (DAS) system continuously. Records of the operating combustion temperatures for the sewage sludge incinerator shall be maintained for a minimum of 5 years. [40 CFR 503.46(b)]	None.
133	An air pollution control device shall be appropriate for the type of sewage sludge incinerator and the operating parameters for the air pollution control device shall be adequate to indicate proper performance of the air pollution control device. For sewage sludge incinerators subject to the requirements in subpart O of 40 CFR part 60, operation of the air pollution control device shall not violate the requirements for the air pollution control device in subpart O of 40 CFR part 60. [40 CFR 503.45(f)]	Other: Air pollution control device operating parameters. For sewage sludge incinerators subject to the requirements in subpart O of 40 CFR part 60, 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. [40 CFR 503.46(c)].	Other: Values for the air pollution control device operating parameters. Records shall be maintained for a minimum of 5 years. [40 CFR 503.47(g)].	None.
134	Sewage sludge shall not be fired in a sewage sludge incinerator if it is likely to adversely affect a threatened or endangered species listed under section 4 of the Endangered Species Act or its designated critical habitat. [40 CFR 503.45(g)]	None.	None.	None.
135	The instruments required in 40 CFR 503.45(a)-(d) shall be appropriate for the type of sewage sludge incinerator. [40 CFR 503.45(h)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
136	Maintain records of the stack height for the sewage sludge incinerators, the dispersion factor for the site where the sewage sludge incinerators are located, the control efficiency for lead, arsenic, cadmium, chromium and nickel for each sewage sludge incinerator and the risk specific concentration for chromium if calculated. [40 CFR 503.47(j)], [40 CFR 503.47(k)], [40 CFR 503.47(l)] and [40 CFR 503.47(m)]	None.	Other: Records shall be maintained for a minimum of 5 years.[40 CFR 503.47(a)].	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 R2 fluidized bed incinerator #2, three belt filter presses and headworks

Operating Scenario: OS2 Incinerator #2, 16ft

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Maximum Sludge Feed Rate <= 2,500 lb/hr on a dry basis. [N.J.A.C. 7:27-22.16(a)]	Maximum Sludge Feed Rate: Monitored by sludge feed/charge rate monitoring continuously. Maximum sludge feed rate, in dry pounds per hour, shall be calculated based on wet sludge feed rate and the sludge total percent solids content. [N.J.A.C. 7:27-22.16(o)]	Maximum Sludge Feed Rate: Recordkeeping by data acquisition system (DAS) / electronic data storage continuously and by manual logging of sludge percent total solids results daily. [N.J.A.C. 7:27-22.16(o)]	None.
2	Maximum Gross Heat Input <= 19.3 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(e)]	None.	Other: The permittee shall keep records showing maximum gross heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
3	CO <= 64 ppmvd @ 7% O ₂ . [40 CFR 62.15955]	CO: Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Other: Maintain records of performance tests conducted to determine compliance with the emission limits, standards, and/or to establish operating limits.[40 CFR 62.16025(e)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
4	NO _x (Total) <= 150 ppmvd @ 7% O ₂ . [40 CFR 62.15955]	NO _x (Total): Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Other: Maintain records of performance tests conducted to determine compliance with the emission limits, standards, and/or to establish operating limits.[40 CFR 62.16025(e)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
5	TSP <= 18 mg/dscm @ 7% O ₂ . [40 CFR 62.15955]	TSP: Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Other: Maintain records of performance tests conducted to determine compliance with the emission limits, standards, and/or to establish operating limits.[40 CFR 62.16025(e)].	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
6	TSP <= 1.3 lb/ton dry sludge input. [40 CFR 60.152(a)(1)]	TSP: Monitored by stack emission testing once initially, based on the average of three Department validated stack test runs. The owner or operator shall use as reference methods and procedures the test methods in appendix A of 40 CFR Part 60 or other methods and procedures as specified in 40 CFR 60.154, except as provided for in 40 CFR 60.8(b). [40 CFR 60.154]	TSP: Recordkeeping by stack test results once initially. [40 CFR 60.8]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]

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Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
7	SO ₂ ≤ 15 ppmvd @ 7% O ₂ . [40 CFR 62.15955]	SO ₂ : Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	SO ₂ : Recordkeeping by stack test results upon occurrence of event. Maintain records of performance tests conducted to determine compliance with the emission limits, standards, and/or to establish operating limits. [40 CFR 62.16025(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
8	Lead Emissions ≤ 0.0074 mg/dscm @ 7% O ₂ . [40 CFR 62.15955]	Lead Emissions: Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Lead Emissions: Recordkeeping by stack test results upon occurrence of event. Maintain records of performance tests conducted to determine compliance with the emission limits, standards, and/or to establish operating limits. [40 CFR 62.16025(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
9	Dioxins/Furans (Total) ≤ 0.1 ng/dscm @ 7% O ₂ (toxic equivalency basis) or Dioxins/Furans (Total) ≤ 1.2 ng/dscm @ 7% O ₂ (total mass basis). [40 CFR 62.15955]	Dioxins/Furans (Total): Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Dioxins/Furans (Total): Recordkeeping by stack test results upon occurrence of event. Dioxin/Furans (TEQ or TMB): Maintain records of performance tests conducted to determine compliance with the emission limits, standards, and/or to establish operating limits. [40 CFR 62.16025(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
10	Cadmium Emissions ≤ 0.0016 mg/dscm @ 7% O ₂ . [40 CFR 62.15955]	Cadmium Emissions: Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Cadmium Emissions: Recordkeeping by stack test results upon occurrence of event. Maintain records of performance tests conducted to determine compliance with the emission limits, standards, and/or to establish operating limits. [40 CFR 62.16025(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
11	Hydrogen chloride ≤ 0.51 ppmvd @ 7% O ₂ . [40 CFR 62.15955]	Hydrogen chloride: Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Hydrogen chloride: Recordkeeping by stack test results upon occurrence of event. Maintain records of performance tests conducted to determine compliance with the emission limits, standards, and/or to establish operating limits. [40 CFR 62.16025(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
12	Mercury Emissions ≤ 0.037 mg/dscm @ 7% O ₂ . [40 CFR 62.15955]	Mercury Emissions: Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Mercury Emissions: Recordkeeping by stack test results upon occurrence of event. Maintain records of performance tests conducted to determine compliance with the emission limits, standards, and/or to establish operating limits. [40 CFR 62.16025(e)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]

U1 R2 fluidized bed incinerator #2, three belt filter presses and headworks

OS2

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
13	VOC (Total) \leq 1.5 lb/hr based on the stack testing result and maximum exhaust gas flowrate. [N.J.A.C. 7:27-20.16(a)]	VOC (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	VOC (Total): Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
14	NO _x (Total) \leq 3.16 lb/hr based on the Subpart LLL concentration limit and maximum exhaust gas flowrate. [N.J.A.C. 7:27-22.16(a)]	NO _x (Total): Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NO _x (Total): Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
15	NO _x (Total) \leq 2.5 lb/ton dry sludge input. [N.J.A.C. 7:27-19.28(a)]	NO _x (Total): Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	NO _x (Total): Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
16	CO \leq 1.67 lb/hr based on the Subpart LLL concentration limit and maximum exhaust gas flowrate. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	CO: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
17	CO \leq 100 ppmvd @ 7% O ₂ except during periods of cold start-up, warm start-up, and standby. [N.J.A.C. 7:27-22.16(e)]	CO: Monitored by continuous emission monitor continuously, based on a 1 hour block average. [N.J.A.C. 7:27-22.16(e)]	CO: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(e)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal to the NJDEP Northern Regional Enforcement Office and the Chief of the Air Monitoring Branch USEPA Region II, Edison, NJ, for review and approval. [N.J.A.C. 7:27-22.16(o)]
18	SO ₂ \leq 0.897 lb/hr based on the Subpart LLL concentration limit and maximum exhaust gas flowrate. [N.J.A.C. 7:27-22.16(a)]	SO ₂ : Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	SO ₂ : Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
19	SO ₂ ≤ 50 ppmvd @ 7% O ₂ , except during periods of cold start-up, warm start-up, and standby. [N.J.A.C. 7:27-22.16(e)]	SO ₂ : Monitored by continuous emission monitoring system continuously, based on a 3 hour rolling average. [N.J.A.C. 7:27-22.16(o)]	SO ₂ : Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(o)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal to the NJDEP Northern Regional Enforcement Office and the Chief of the Air Monitoring Branch USEPA Region II, Edison, NJ, for review and approval. [N.J.A.C. 7:27-22.16(o)]
20	TSP ≤ 0.405 lb/hr based on the Subpart LLL concentration limit and maximum exhaust gas flowrate. [N.J.A.C. 7:27-22.16(a)]	TSP: Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
21	TSP ≤ 0.015 gr/dscf @ 7% O ₂ . [N.J.A.C. 7:27-22.16(e)]	TSP: Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	TSP: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirement in OS Summary for details. [N.J.A.C. 7:27-22.16(o)]
22	PM-10 (Total) ≤ 1.76 lb/hr based on the stack testing result and maximum exhaust gas flowrate. [N.J.A.C. 7:27-22.16(a)]	PM-10 (Total): Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	PM-10 (Total): Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
23	PM-2.5 (Total) ≤ 1.76 lb/hr based on PM-10 emission limit. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
24	Lead Emissions ≤ 0.000166 lb/hr based on the Subpart LLL concentration limit and maximum exhaust gas flowrate. [N.J.A.C. 7:27-22.16(a)]	Lead Emissions: Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Lead Emissions: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
25	Oxygen >= 3 % by volume on a dry basis in the flue gas. [N.J.A.C. 7:27-22.16(e)]	Oxygen: Monitored by continuous emission monitor continuously, based on 5-minute blocks. [N.J.A.C. 7:27-22.16(e)]	Oxygen: Recordkeeping by strip chart or data acquisition (DAS) system continuously. [N.J.A.C. 7:27-22.16(e)]	Submit an Excess Emissions and Monitoring Systems Performance Report (EEMPR): Every April 30, July 30, October 30, and January 30 for the preceding quarter year (the quarter years begin on January 1, April 1, July 1, and October 1) electronically through the NJDEP online EEMPR web portal to the NJDEP Northern Regional Enforcement Office and the Chief of the Air Monitoring Branch USEPA Region II, Edison, NJ, for review and approval. [N.J.A.C. 7:27-22.16(o)]
26	Arsenic Emissions <= 0.000209 lb/hr based on the stack testing result and maximum exhaust gas flowrate. [N.J.A.C. 7:27-22.16(a)]	Arsenic Emissions: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Arsenic Emissions: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
27	Beryllium Emissions <= 0.0000209 lb/hr based on the stack testing result and maximum exhaust gas flowrate.. [N.J.A.C. 7:27-22.16(a)]	Beryllium Emissions: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Beryllium Emissions: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
28	Cadmium Emissions <= 0.000036 lb/hr based on the Subpart LLL concentration limit and maximum exhaust gas flowrate. [N.J.A.C. 7:27-22.16(a)]	Cadmium Emissions: Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Cadmium Emissions: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
29	Chromium Emissions <= 0.000603 lb/hr based on the stack testing result and maximum exhaust gas flowrate. [N.J.A.C. 7:27-22.16(a)]	Chromium Emissions: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Chromium Emissions: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
30	Chromium (Hexavalent) Emissions <= 0.0000603 lb/hr based on 10% of the total chromium emission. [N.J.A.C. 7:27-22.16(a)]	Chromium (Hexavalent) Emissions: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Chromium (Hexavalent) Emissions: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]

U1 R2 fluidized bed incinerator #2, three belt filter presses and headworks

OS2

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
31	Hydrogen chloride \leq 0.0174 lb/hr based on the Subpart LLL concentration limit and maximum exhaust gas flowrate. [N.J.A.C. 7:27-22.16(a)]	Hydrogen chloride: Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Hydrogen chloride: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
32	Mercury Emissions \leq 0.000832 lb/hr based on the Subpart LLL concentration limit and maximum exhaust gas flowrate. [N.J.A.C. 7:27-22.16(a)]	Mercury Emissions: Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Mercury Emissions: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
33	Nickel Emissions \leq 0.00106 lb/hr based on the stack testing result and maximum exhaust gas flowrate. [N.J.A.C. 7:27-22.16(a)]	Nickel Emissions: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Nickel Emissions: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
34	Dioxins/Furans (Total) \leq 2.7E-8 lb/hr (total mass basis) or 2.25E-9 lb/hr (toxic equivalency basis). Maximum emission rate is based on the Subpart LLL concentration limit and maximum exhaust gas flowrate. [N.J.A.C. 7:27-22.16(a)]	Dioxins/Furans (Total): Monitored by stack emission testing once initially and annually based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Dioxins/Furans (Total): Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
35	Benzo (A) Pyrene Emissions \leq 0.000048 lb/hr based on the stack testing result and maximum exhaust gas flowrate. [N.J.A.C. 7:27-22.16(a)]	Benzo (A) Pyrene Emissions: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Benzo (A) Pyrene Emissions: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]
36	Benzene \leq 0.019 lb/hr based on the stack testing result and maximum exhaust gas flowrate. [N.J.A.C. 7:27-22.16(a)]	Benzene: Monitored by stack emission testing once initially and prior to permit expiration date, based on the average of three Department validated stack test runs. [N.J.A.C. 7:27-22.16(o)]	Benzene: Recordkeeping by stack test results upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	Stack Test - Submit protocol, conduct test and submit results: As per the approved schedule. See stack testing requirements in U1 OS Summary. [N.J.A.C. 7:27-22.16(o)]

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 R2 fluidized bed incinerator #2, three belt filter presses and headworks

Operating Scenario: OS3 Sludge blend tank

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The emissions from the sludge blend tank shall be vented to and controlled by the carbon adsorption odor control system (CD4). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Emissions of all air contaminants shall be below the respective reporting threshold when venting to the incinerator. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.
3	VOC (Total) <= 0.06 lb/hr from the sludge blend tank emitting through the carbon adsorber unit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 R2 fluidized bed incinerator #2, three belt filter presses and headworks

Operating Scenario: OS4 Septage receiving station

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The emissions from the septage receiving station shall be controlled by the carbon adsorption odor control system (CD4). [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	Emissions of all air contaminants shall be below the respective reporting threshold when venting through the incinerator. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	VOC (Total) \leq 0.06 lb/hr from the septage receiving station passing through the carbon absorber unit. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 R2 fluidized bed incinerator #2, three belt filter presses and headworks

Operating Scenario: OS5 Belt filter press #1

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Emissions of all air contaminants shall be below the respective reporting threshold. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 R2 fluidized bed incinerator #2, three belt filter presses and headworks

Operating Scenario: OS6 Belt filter press #2

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Emissions of all air contaminants shall be below the respective reporting threshold. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U1 R2 fluidized bed incinerator #2, three belt filter presses and headworks

Operating Scenario: OS7 Belt filter press #3

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Emissions of all air contaminants shall be below the respective reporting threshold. [N.J.A.C. 7:27-22.16(e)]	None.	None.	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U130 Sludge thickeners T1 and T2 and wet well

Subject Item: CD130 Thickener carbon adsorber unit

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	The permittee shall inspect and maintain the thickener carbon adsorber (CD130) on a schedule necessary to achieve the required control efficiency as specified by the manufacturer. [N.J.A.C. 7:27-22.16(a)]	Monitored by visual determination once every 2 weeks. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter once every 2 weeks Record each inspection and maintenance event in a permanently bound log book or readily accessible computer based memory. [N.J.A.C. 7:27-22.16(o)]	None.
2	The activated carbon media shall be replaced when breakthrough occurs based on sense of smell. [N.J.A.C. 7:27-22.16(e)]	Monitored by odor threshold monitoring daily A daily inspection of the unit must be conducted in order to determine odor breakthrough of the carbon unit by sense of smell. [N.J.A.C. 7:27-22.16(o)]	Recordkeeping by manual logging of parameter or storing data in a computer data system daily. The following records pertaining to the carbon adsorption unit shall be maintained: - Date of replacement or regeneration - Hours of operation per day - Determination of odor breakthrough [N.J.A.C. 7:27-22.16(a)]	None.
3	Spent carbon shall be disposed of in a manner that minimizes the release of air contaminants to the atmosphere. This must be done in accordance with state and federal disposal regulations. [N.J.A.C. 7:27-22.16(e)]	None.	Recordkeeping by invoices / bills of lading per change of material. [N.J.A.C. 7:27-22.16(e)].	None.
4	Differential Pressure: A manometer shall be installed to detect blockages in the carbon bed. [N.J.A.C. 7:27-22.16(e)].	Differential Pressure: Monitored by pressure drop Instrument daily, based on an instantaneous determination. [N.J.A.C. 7:27-22.16(e)].	Differential Pressure: Recordkeeping by manual logging of parameter daily in a permanently bound log book or readily accessible computer memory. [N.J.A.C. 7:27-22.16(e)]	Repair equipment: Upon occurrence of event. [N.J.A.C. 7:27-22.16(e)].

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U130 Sludge thickeners T1 and T2 and wet well

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	Whenever the discharge from a stack or chimney includes sulfur compounds in the form of gases, vapors or liquid particles other than SO ₂ , SO ₃ , and H ₂ SO ₄ , the total quantity of sulfur in these sulfur compounds which is discharged in any 60-minute period shall not exceed the allowable emission as set forth in subsection (r) of this Section and the maximum rate of emission at any instant shall not exceed the allowable emission. [N.J.A.C. 7:27- 7]	Monitored by calculations once initially. [N.J.A.C. 7:27- 7]	Other: Keep calculations on site.[N.J.A.C. 7:27-22.16(o)].	None.
2	Sulfur Compounds other than SO ₂ , SO ₃ and H ₂ SO ₄ <= 0.3 lb/hr for hydrogen sulfide, maximum allowable per thickener in any 60-minute period, based on the calculation procedure at N.J.A.C. 7:27-7.2(r). [N.J.A.C. 7:27- 7.2(i)]	None.	None.	None.
3	The hourly emission rate of all contaminants from the two thickeners and the sludge wet well shall be below the reporting threshold of 0.05 lb/hr or for HAPs the annual emission rate presented in Table B of N.J.A.C.7:27-22, Appendix. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	With the exception of 720 hrs per year for periods of equipment or control device maintenance, all emissions from the operating scenarios in this emission unit must be vented through the thickener carbon adsorber CD130 [N.J.A.C. 7:27-22.16(a)]	None.	Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U140 Building 600 Hot Water Heating Boiler

Operating Scenario: OS Summary

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	No visible emissions except for a period no longer than three minutes in any consecutive 30-minute period. [N.J.A.C. 7:27-3.2(a)] and [N.J.A.C. 7:27- 3.2(c)]	None.	None.	None.
2	NOx (Total) <= 0.346 tons/yr. [N.J.A.C. 7:27-22(16)a]	NOx (Total): Monitored by calculations annually, based on one calendar year based on the amount of natural gas fuel consumed. [N.J.A.C. 7:27-22.22(16)o]	Other: Maintain calculations.[N.J.A.C. 7:27-22.16(o)].	None.
3	CO <= 0.269 tons/yr. [N.J.A.C. 7:27-22.16(a)]	CO: Monitored by calculations annually, based on one calendar year based on amount of natural gas fuel consumed. [N.J.A.C. 7:27-22.16(o)]	Other: Maintain calculations.[N.J.A.C. 7:27-22.16(o)].	None.
4	Fuel is limited to natural gas. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
5	Natural Gas Usage <= 6.403 MMft ³ /yr. [N.J.A.C. 7:27-22.16(a)]	Natural Gas Usage: Monitored by fuel flow/firing rate instrument continuously, based on one calendar year. [N.J.A.C. 7:27-22.16(o)]	Natural Gas Usage: Recordkeeping by manual logging of parameter or storing data in a computer data system annually. [N.J.A.C. 7:27-22.16(o)]	None.
6	Hours of Operation <= 4,380 hr/yr. [N.J.A.C. 7:27-22.16(a)]	Hours of Operation: Monitored by hour/time monitor continuously. [N.J.A.C. 7:27-22.16(o)]	Hours of Operation: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27-22.16(o)]	None.

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**New Jersey Department of Environmental Protection
Facility Specific Requirements**

Emission Unit: U140 Building 600 Hot Water Heating Boiler

Operating Scenario: OS1 Run Building 600 Heating Boiler

Ref.#	Applicable Requirement	Monitoring Requirement	Recordkeeping Requirement	Submittal/Action Requirement
1	NO _x (Total) ≤ 0.158 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
2	CO ≤ 0.123 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
3	TSP ≤ 0.05 lb/hr. [N.J.A.C. 7:27-22.16(a)]	None.	None.	None.
4	Maximum Gross Heat Input ≤ 1,491 MMBTU/hr (HHV). [N.J.A.C. 7:27-22.16(a)]	None.	Other: Maintain record of manufacturer's specifications including maximum gross heat input rate.[N.J.A.C. 7:27-22.16(o)].	None.
5	TSP ≤ 0.9 lb/hr. [N.J.A.C. 7:27- 4.2(a)]	None.	None.	None.

New Jersey Department of Environmental Protection
Facility Profile (General)

Facility Name (AIMS): SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY **Facility ID (AIMS):** 35857

Street 50 POLHEMUS LN
Address: BRIDGEWATER, NJ 08807

Mailing 50 POLHEMUS LN
Address: BRIDGEWATER, NJ 08807

County: Somerset
Location Treats and dsiposes of wastewater and
Description: customer septage and liquid sludge.

State Plane Coordinates:	
X-Coordinate:	471,900
Y-Coordinate:	626,900
Units:	Feet
Datum:	NAD83
Source Org.:	Other/Unknown
Source Type:	Other/Unknown

Industry:	
Primary SIC:	4952
Secondary SIC:	
NAICS:	221320

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Air Permit Information Contact

Organization: Somerset Raritan Valley Sewerage Authority **Org. Type:** Public
Name: James Capps **NJ EIN:** 44002100000
Title: Solid End Supervisor
Phone: (732) 469-0593 x0212 **Mailing Address:** 50 Polhemus Lane
Fax: (732) 469-4179 x Bridgewater, NJ 08807
Other: () - x
Type:
Email: Jimmy.Capps@SRVSA.org

Contact Type: Consultant

Organization: KEMS LLC **Org. Type:** LLC
Name: Karl Monninger **NJ EIN:**
Title: President
Phone: (609) 309-5640 x **Mailing Address:** 368 Hollow Road
Fax: (609) 309-5640 x Skillman, NJ 08558
Other: (609) 955-1664 x
Type: Mobile
Email: KMonninger@KEMS.us

Contact Type: Fees/Billing Contact

Organization: Somerset Raritan Valley Sewerage Authority **Org. Type:** Public
Name: Ronald Anastasio, P.E. **NJ EIN:** 44002100000
Title: Exceutive Director
Phone: (732) 469-0593 x0234 **Mailing Address:** 50 Polhemus Lane
Fax: (732) 469-4179 x Bridgewater, NJ 08807
Other: () - x
Type:
Email: Ronald.Anastasio@SRVSA.org

New Jersey Department of Environmental Protection
Facility Profile (General)

Contact Type: Operator

Organization: Somerset Raritan Valley Sewerage Authority **Org. Type:** Public
Name: **NJ EIN:** 44002100000
Title:
Phone: () - x **Mailing Address:** 50 Polhemus Lane
Fax: () - x Bridgewater, NJ 08807
Other: () - x
Type:
Email:

Contact Type: Owner (Current Primary)

Organization: Somerset Raritan Valley Sewerage Authority **Org. Type:** Public
Name: **NJ EIN:** 44002100000
Title:
Phone: () - x **Mailing Address:** 50 Polhemus Lane
Fax: () - x Bridgewater, NJ 08807
Other: () - x
Type:
Email:

Contact Type: Responsible Official

Organization: Somerset Raritan Valley Sewerage Authority **Org. Type:** Public
Name: Ronald Anastasio, P.E. **NJ EIN:** 44002100000
Title: Executive Director
Phone: (732) 469-0593 x0234 **Mailing Address:** 50 Polhemus Lane
Fax: (732) 469-4179 x Bridgewater, NJ 08807
Other: () - x
Type:
Email: Ronald.Anastasio@SRVSA.org

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS100	Small boiler firing fuel oil less than 1,000,000 BTU/hr heat input	Boiler	Incin. Bldg.	0.002	0.131	0.033	0.187	0.013	0.007	0.000	0.00000000	
IS101	Heaters firing propane, less than 1,000,000 BTU/hr heat input	Fuel Combustion Equipment (Other)	Maintenance shop; warehouse; Admin	0.002	0.114	0.016	0.000	0.003	0.003	0.000	0.00000000	
IS102	Distillate oil tanks not exceeding 10,000 gal capacity including a 275 gal waste oil tank.	Storage Vessel	Incineration; Admin	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	
IS103	Gasoline refueling tank not exceeding 2,000 gallon capacity	Storage Vessel	SE corner of Incin. Bldg.	0.278	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	
IS120	Sludge cake storage bin not exceeding 2,000 cubic ft. capacity	Storage Vessel	NE corner of Incin. Bldg.	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	
IS140	Natural gas fired heaters less than 1 MM BTU/hr heat input	Fuel Combustion Equipment (Other)	Plant	0.058	0.882	0.375	0.006	0.018	0.071	0.000	0.00000000	
IS200	Wastewater treatment plant sources @ < 100 ppb TXS, and <3,500 ppb of total VOC	Storage Vessel	Plant	14.446	0.000	0.000	0.000	0.000	0.000	0.000	1.63760000	

New Jersey Department of Environmental Protection
Insignificant Source Emissions

IS NJID	Source/Group Description	Equipment Type	Location Description	Estimate of Emissions (tpy)								
				VOC (Total)	NOx	CO	SO	TSP	PM-10	Pb	HAPS (Total)	Other (Total)
IS201	Three Sodium Hypochlorite Storage Tanks > 10,000 gal capacity	Storage Vessel	Plant	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.00000000	
Total				14.790	1.127	0.424	0.193	0.034	0.081	0.000	1.63760000	0.000

BOP190001

**New Jersey Department of Environmental Protection
Equipment Inventory**

Equip. NJID	Facility's Designation	Equipment Description	Equipment Type	Certificate Number	Install Date	Grand-Fathered	Last Mod. (Since 1968)	Equip. Set ID
E1	Inc. #1	Fluid Bed incinerator #1	Incinerator	104378		No	12/31/1991	
E2	Inc. #2	Fluid Bed incinerator #2	Incinerator	104379	12/31/1992	No	4/23/2018	
E3	R. C.	Reheat chamber	Fuel Combustion Equipment (Other)	104378/104379		No	12/31/1992	
E4	SBT	Sludge blend tank	Storage Vessel	104378/104379	12/31/1967	No	12/31/1992	
E5	SRS	Septage receiving station	Storage Vessel	104378/104379		No	12/31/1992	
E6	BFP #1	Belt filter press #1	Other Equipment		12/31/1984	No	12/31/2002	
E7	BFP #2	Belt filter press #2	Other Equipment		12/31/1984	Yes	12/31/1984	
E8	BFP #3	Belt filter press #3	Other Equipment		12/31/1992	No	12/31/1992	
E130	T1	Sludge thickener T1	Storage Vessel	123156	12/31/1967	No	12/31/1986	
E131	T2	Sludge thickener T2	Storage Vessel	123156	12/31/1972	No	12/31/1986	
E132	WW	Wet well	Storage Vessel	123156		No	12/31/1986	
E140	B600 Boiler	Building 600 Hot Water Heating Boiler	Boiler		9/17/2012	No	9/17/2012	

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 E1 (Incinerator)
Print Date: 8/13/2019

Make:	<input type="text" value="Fluid Bed"/>
Manufacturer:	<input type="text" value="Dorr-Oliver"/>
Model:	<input type="text" value="12' I.D."/>
Unit Type:	<input type="text" value="Other"/>
Description:	<input type="text" value="Fluidized Bed Incinerator"/>
Maximum Waste Processing Capacity:	<input type="text"/>
Units:	<input type="text"/>
Physical State of Waste being Incinerated:	<input type="text"/>
Description:	<input type="text"/>
Primary Chamber Maximum Gross Heat Input from Fuel (MMbtu/hr, HHV):	<input type="text"/>
Primary Chamber Maximum Primary Air (acfm):	<input type="text"/>
Primary Chamber Maximum Gas Flow Rate (acfm):	<input type="text"/>
Primary Chamber Volume (ft³):	<input type="text"/>
Primary Chamber Minimum Design Operation Temperature (°F):	<input type="text"/>
Primary Chamber Minimum Gas Residence Time (sec):	<input type="text"/>
Secondary Chamber Maximum Gross Heat Input from Fuel (MMBtu/hr, HHV):	<input type="text"/>
Secondary Chamber Maximum Primary Air (acfm):	<input type="text"/>
Secondary Chamber Maximum Gas Flow Rate (acfm):	<input type="text"/>
Secondary Chamber Volume (ft³):	<input type="text"/>
Secondary Chamber Minimum Design Operation Temperature (°F):	<input type="text"/>
Secondary Chamber Minimum Gas Residence Time (sec):	<input type="text"/>
Secondary Chamber Maximum Outlet Air Flow Rate (acfm):	<input type="text"/>
Secondary Chamber Minimum Outlet Temperature (°F):	<input type="text"/>
Type of Plume Suppression:	<input type="text"/>
Do you have a bypass Stack?	<input type="radio"/> Yes <input checked="" type="radio"/> No

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 E1 (Incinerator)
Print Date: 8/13/2019

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes
 No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

Yes
 No

Comments:

[This incinerator has been rendered inoperable.](#)

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 E2 (Incinerator)
Print Date: 8/13/2019

Make:	Fluid bed
Manufacturer:	Hankin Environmental System
Model:	16' I.D.
Unit Type:	Other
Description:	Fluid bed sludge incinerator
Maximum Waste Processing Capacity:	2660
Units:	dry pounds/hr
Physical State of Waste being Incinerated:	Sludge
Description:	
Primary Chamber Maximum Gross Heat Input from Fuel (MMBtu/hr, HHV):	19.3
Primary Chamber Maximum Primary Air (acfm):	5500
Primary Chamber Maximum Gas Flow Rate (acfm):	36750
Primary Chamber Volume (ft³):	4200
Primary Chamber Minimum Design Operation Temperature (°F):	1500
Primary Chamber Minimum Gas Residence Time (sec):	2
Secondary Chamber Maximum Gross Heat Input from Fuel (MMBtu/hr, HHV):	
Secondary Chamber Maximum Primary Air (acfm):	
Secondary Chamber Maximum Gas Flow Rate (acfm):	
Secondary Chamber Volume (ft³):	
Secondary Chamber Minimum Design Operation Temperature (°F):	
Secondary Chamber Minimum Gas Residence Time (sec):	
Secondary Chamber Maximum Outlet Air Flow Rate (acfm):	
Secondary Chamber Minimum Outlet Temperature (°F):	
Type of Plume Suppression:	
Do you have a bypass Stack?	<input type="radio"/> Yes <input checked="" type="radio"/> No

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 E2 (Incinerator)
Print Date: 8/13/2019

Have you attached a diagram showing the location and/or the configuration of this equipment?

Yes
 No

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

Yes
 No

Comments:

[Incinerator #2](#)

Make:	NA
Manufacturer:	North American Manufacturing Co.
Model:	NAMC 6422-6X-z burner
Equipment Type Description:	Stack reheat chamber with burner
Maximum Rated Gross Heat Input (MMBtu/hr):	1.35
Type of Heat Exchange:	direct
Have you attached a diagram showing the location and/or configuration of this equipment?	yes
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	Reheat chamber

Include Emission Rates on the Potential to Emit Screen for each contaminant in ppmvd @ 7%O₂ in addition to lbs/hr and tons/yr.

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 E4 (Storage Vessel)

Print Date: 8/13/2019

What type of contents is this storage vessel equipped to contain by design?

Both Solids and Liquids

Storage Vessel Type:

Reservoir

Design Capacity:

400,000

Units:

gallons

Ground Location:

Below Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Cylindrical

Shell Height (From Ground to Roof Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

48.00

Other Dimension

Description:

height

Value:

32.00

Units:

ft side depth

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

200.00

Units:

gal/min

Does the storage vessel have a roof or an open top?

Roof

Roof Type:

Domed vertical fixed roof tank

Roof Height (From Roof Bottom to Roof Top) (ft):

8.00

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 E4 (Storage Vessel)

Print Date: 8/13/2019

Does the storage vessel
have a Conservation Vent?

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 E5 (Storage Vessel)

Print Date: 8/13/2019

What type of contents is this storage vessel equipped to contain by design?

Both Solids and Liquids

Storage Vessel Type:

Reservoir

Design Capacity:

14,000

Units:

gallons

Ground Location:

Below Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft²)(deg F)]:

Shape of Storage Vessel:

Rectangular

Shell Height (From Ground to Roof Bottom) (ft):

Length (ft):

12.00

Width (ft):

24.00

Diameter (ft):

Other Dimension

Description:

height

Value:

9.00

Units:

ft

Fill Method:

Top Pipe

Description (if other):

Maximum Design Fill Rate:

200.00

Units:

gal/min

Does the storage vessel have a roof or an open top?

Roof

Roof Type:

Horizontal fixed roof tank

Roof Height (From Roof Bottom to Roof Top) (ft):

1.00

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 E5 (Storage Vessel)

Print Date: 8/13/2019

Does the storage vessel
have a Conservation Vent?

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

Make:	Roller Filter Press
Manufacturer:	Ashbrook-Simon-Hartley
Model:	2.2 Meter KLAM Press Size 3
Equipment Type:	Belt filter press
Capacity:	130
Units:	gpm wet sludge feed to press
Have you attached a diagram showing the location and/or configuration of this equipment?	yes
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	Belt filter press #1

Make:	Roller Filter Press
Manufacturer:	Ashbrook-Simon-Hartley
Model:	2.2 Meter KLAM Press Size 3
Equipment Type:	Belt filter press
Capacity:	130
Units:	gpm wet sludge feed to press
Have you attached a diagram showing the location and/or configuration of this equipment?	yes
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	Belt filter press #2

Make:	Roller Filter Press
Manufacturer:	Ashbrook-Simon-Hartley
Model:	top belt 2.2 Meters wide x 15.7 meters in length
Equipment Type:	Belt filter press
Capacity:	130
Units:	gpm wet sludge feed to press
Have you attached a diagram showing the location and/or configuration of this equipment?	yes
Have you attached any manufacturer's data or specifications which may aid in the review of this application?	no
Comments:	Belt filter press #3

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 E130 (Storage Vessel)

Print Date: 8/13/2019

What type of contents is this storage vessel equipped to contain by design?

Both Solids and Liquids

Storage Vessel Type:

Reservoir

Design Capacity:

3,300

Units:

ft^3

Ground Location:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:

Shape of Storage Vessel:

Cylindrical

Shell Height (From Ground to Roof Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

20.00

Other Dimension

Description:

side wall height

Value:

10.00

Units:

ft

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

226.00

Units:

gal/min

Does the storage vessel have a roof or an open top?

Roof

Roof Type:

Domed vertical fixed roof tank

Roof Height (From Roof Bottom to Roof Top) (ft):

10.00

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 E130 (Storage Vessel)

Print Date: 8/13/2019

Does the storage vessel
have a Conservation Vent?

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 E131 (Storage Vessel)

Print Date: 8/13/2019

What type of contents is this storage vessel equipped to contain by design?

Both Solids and Liquids

Storage Vessel Type:

Reservoir

Design Capacity:

7,800

Units:

ft^3

Ground Location:

Above Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:

Shape of Storage Vessel:

Cylindrical

Shell Height (From Ground to Roof Bottom) (ft):

Length (ft):

Width (ft):

Diameter (ft):

30.00

Other Dimension

Description:

side wall height

Value:

10.00

Units:

ft

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

226.00

Units:

gal/min

Does the storage vessel have a roof or an open top?

Roof

Roof Type:

Domed vertical fixed roof tank

Roof Height (From Roof Bottom to Roof Top) (ft):

10.00

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 E131 (Storage Vessel)

Print Date: 8/13/2019

Does the storage vessel
have a Conservation Vent?

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 E132 (Storage Vessel)
Print Date: 8/13/2019

What type of contents is this storage vessel equipped to contain by design?

Both Solids and Liquids

Storage Vessel Type:

Reservoir

Design Capacity:

560

Units:

ft^3

Ground Location:

Below Ground

Is the Shell of the Equipment

Exposed to Sunlight?

Shell Color:

Description (if other):

Shell Condition:

Paint Condition:

Shell Construction:

Is the Shell Insulated?

Type of Insulation:

Insulation Thickness (in):

Thermal Conductivity of Insulation [(BTU)(in)(hr)(ft2)(deg F)]:

Shape of Storage Vessel:

Rectangular

Shell Height (From Ground to Roof Bottom) (ft):

Length (ft):

5.00

Width (ft):

12.00

Diameter (ft):

Other Dimension

Description:

depth

Value:

9.33

Units:

ft

Fill Method:

Submerged

Description (if other):

Maximum Design Fill Rate:

226.00

Units:

gal/min

Does the storage vessel have a roof or an open top?

Roof

Roof Type:

Vertical fixed roof tank

Roof Height (From Roof Bottom to Roof Top) (ft):

0.50

Roof Construction:

Primary Seal Type:

Secondary Seal Type:

Total Number of Seals:

Roof Support:

Does the storage vessel have a Vapor Return Loop?

Does the storage vessel

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 E132 (Storage Vessel)

Print Date: 8/13/2019

Does the storage vessel
have a Conservation Vent?

Have you attached a diagram
showing the location and/or the
configuration of this equipment?

Have you attached any manuf.'s
data or specifications to aid the
Dept. in its review of this
application?

Comments:

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 E140 (Boiler)
Print Date: 8/13/2019

Make:
Manufacturer:
Model:
Maximum Rated Gross Heat Input (MMBtu/hr - HHV):
Boiler Type:
Utility Type:
Output Type:
Steam Output (lb/hr):
Fuel Firing Method:
Description (if other):
Draft Type:
Heat Exchange Type:

Is the boiler using? (check all that apply):

Low NOx Burner: Type:
Staged Air Combustion:
Flue Gas Recirculation (FGR): Amount (%):

Have you attached a diagram showing the location and/or the configuration of this equipment?

Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application?

Comments:

BOP190001

**New Jersey Department of Environmental Protection
Control Device Inventory**

CD NJID	Facility's Designation	Description	CD Type	Install Date	Grand-Fathered	Last Mod. (Since 1968)	CD Set ID
CD1	#1 scrubber	Incinerator #1 venturi-scrubber	Scrubber (Multi-Stage)		No	12/31/1991	
CD2	#2 scrubber	Incinerator #2 venturi-scrubber	Scrubber (Multi-Stage)		No	12/31/1992	
CD3	WESP	Wet electrostatic precipitator	Electrostatic Precipitator		No	12/31/1992	
CD4	Cocarb	Headworks building carbon adsorber unit	Adsorber		No	12/31/1992	
CD5	UHF	Ultra high efficiency filter	Particulate Filter (Other)	8/1/2018	No		
CD6	HEPA	HEPA filter	Particulate Filter (HEPA)	8/1/2018	No		
CD7	MCS	Incinerator #2 carbon adsorber	Adsorber	8/1/2018	No		
CD130	Thk CA	Thickener carbon adsorber unit	Adsorber		No	8/31/1986	

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 CD1 (Scrubber (Multi-Stage))
Print Date: 8/13/2019

Make:	<input type="text" value="NA"/>
Manufacturer:	<input type="text" value="Swemco"/>
Model:	<input type="text" value="Venturi scrubber"/>
Number of Stages:	<input type="text" value="1"/>
Is the Scrubber Used for Particulate Control?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Scrubber Used for Gas Control?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Scrubber Equipped with a Mist Eliminator?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Minimum Pump Discharge Pressure (in. H2O):	<input type="text"/>
Maximum Pump Discharge Pressure (in. H2O):	<input type="text"/>
Method of Monitoring Pump Discharge Pressure:	<input type="text" value="NA"/>
Minimum Pump Current (amps):	<input type="text"/>
Maximum Pump Current (amps):	<input type="text"/>
Method of Monitoring Pump Current:	<input type="text" value="NA"/>
Minimum Scrubber Medium Inlet Pressure (in. H2O):	<input type="text" value="30.00"/>
Minimum Operating Liquid Flow Rate (gpm):	<input type="text" value="95.00"/>
Maximum Operating Liquid Flow Rate (gpm):	<input type="text" value="130.00"/>
Method of Monitoring Liquid Flow Rate:	<input type="text" value="flowmeter/ strip chart recorder/ logsheets"/>
Minimum Operating Gas Flow Rate (acfm):	<input type="text"/>
Maximum Operating Gas Flow Rate (acfm):	<input type="text" value="22,000.00"/>
Method of Monitoring Gas Flow Rate:	<input type="text" value="Fluidizing air blower speed"/>
Minimum Operating Pressure Drop (in. H2O):	<input type="text" value="26.00"/>
Maximum Operating Pressure Drop (in. H2O):	<input type="text"/>
Method of Monitoring Pressure Drop:	<input type="text" value="DP transmitter/ strip chart recorder/ logshe"/>
Relative Direction of the Gas-Liquid Flow:	<input type="text" value="Co-Current"/>
Description:	<input type="text"/>
Maximum Inlet Gas Temperature (°F):	<input type="text" value="800.0"/>
Maximum Outlet Gas Temperature (°F):	<input type="text" value="120.0"/>
Inlet Particle Grain Loading (gr/dscf):	<input type="text"/>
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	<input type="text" value="1"/>
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	<input type="text" value="Stack testing"/>
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input checked="" type="radio"/> Yes <input type="radio"/> No

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 CD1 (Scrubber (Multi-Stage))
Print Date: 8/13/2019

Comments:

Incinerator #1 venturi-scrubber; 3 cooling trays

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 CD2 (Scrubber (Multi-Stage))
Print Date: 8/13/2019

Make:	<input type="text" value="NA"/>
Manufacturer:	<input type="text" value="Swemco"/>
Model:	<input type="text" value="Venturi scrubber"/>
Number of Stages:	<input type="text" value="1"/>
Is the Scrubber Used for Particulate Control?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Scrubber Used for Gas Control?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Is the Scrubber Equipped with a Mist Eliminator?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Minimum Pump Discharge Pressure (in. H2O):	<input type="text"/>
Maximum Pump Discharge Pressure (in. H2O):	<input type="text"/>
Method of Monitoring Pump Discharge Pressure:	<input type="text" value="NA"/>
Minimum Pump Current (amps):	<input type="text"/>
Maximum Pump Current (amps):	<input type="text"/>
Method of Monitoring Pump Current:	<input type="text" value="NA"/>
Minimum Scrubber Medium Inlet Pressure (in. H2O):	<input type="text" value="30.00"/>
Minimum Operating Liquid Flow Rate (gpm):	<input type="text" value="95.00"/>
Maximum Operating Liquid Flow Rate (gpm):	<input type="text" value="130.00"/>
Method of Monitoring Liquid Flow Rate:	<input type="text" value="flowmeter/ data acquisition system (DAS)"/>
Minimum Operating Gas Flow Rate (acfm):	<input type="text"/>
Maximum Operating Gas Flow Rate (acfm):	<input type="text" value="22,000.00"/>
Method of Monitoring Gas Flow Rate:	<input type="text" value="Fluidizing air blower speed"/>
Minimum Operating Pressure Drop (in. H2O):	<input type="text" value="26.00"/>
Maximum Operating Pressure Drop (in. H2O):	<input type="text"/>
Method of Monitoring Pressure Drop:	<input type="text" value="DP transmitter/ data acquisition system (DAS)"/>
Relative Direction of the Gas-Liquid Flow:	<input type="text" value="Co-Current"/>
Description:	<input type="text"/>
Maximum Inlet Gas Temperature (°F):	<input type="text" value="900.0"/>
Maximum Outlet Gas Temperature (°F):	<input type="text" value="120.0"/>
Inlet Particle Grain Loading (gr/dscf):	<input type="text"/>
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	<input type="text" value="1"/>
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	<input type="text" value="Stack testing and scrubber effluent pH."/>
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input checked="" type="radio"/> Yes <input type="radio"/> No

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 CD2 (Scrubber (Multi-Stage))

Print Date: 8/13/2019

Comments:

Incinerator #2 venturi-scrubber; 3 impingement trays.

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 CD3 (Electrostatic Precipitator)
Print Date: 8/13/2019

Make:	<input type="text" value="NA"/>
Manufacturer:	<input type="text" value="Beltran"/>
Model:	<input type="text" value="5 x 5 cell"/>
Unit Type:	<input type="text" value="TB"/>
Description:	<input type="text"/>
Number of Stages:	<input type="text" value="2"/>
Method of Operation:	<input type="text" value="Wet"/>
Method of Cleaning:	<input type="text" value="Wash Off"/>
Description:	<input type="text"/>
Capacity (acfm):	<input type="text" value="7,700.0"/>
Maximum Gas Velocity (ft/sec):	<input type="text"/>
Type of Rectifier:	<input type="text" value="Solid State"/>
Maximum Inlet Gas Stream Moisture (%):	<input type="text" value="13.30"/>
Maximum Inlet Gas Stream Temperature (°F):	<input type="text" value="120.0"/>
Number of Plates:	<input type="text"/>
Number of Fields:	<input type="text"/>
Aspect Ratio:	<input type="text"/>
Plate Surface Area (ft²):	<input type="text"/>
Spacing Between Plates (in):	<input type="text"/>
Cross Sectional Area of Precipitator (ft²):	<input type="text" value="25.0"/>
Treatment Time (sec.):	<input type="text"/>
Maximum Corona Power (Volt):	<input type="text" value="19,000.00"/>
Minimum Apparent Migration Velocity (ft/min):	<input type="text"/>
Maximum Particle Resistivity (ohm-cm):	<input type="text"/>
Average Particle Size (Micrometers):	<input type="text"/>
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):	<input type="text" value="1"/>
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	<input type="text" value="Stack test"/>
Have you attached data from recent performance testing?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Have you attached a diagram showing the location and/or configuration of this control apparatus?	<input checked="" type="radio"/> Yes <input type="radio"/> No
Comments:	<input type="text" value="WESP - 2-stage, tube type, upflow WESP."/>

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 CD3 (Electrostatic Precipitator)
Print Date: 8/13/2019

Make:	NA
Manufacturer:	Cocarb
Model:	NA
Adsorber Type:	Granular activated carbon
Description:	Headworks building carbon adsorber
Maximum Gas Flow Rate to Adsorber (acfm):	6540
Maximum Temperature of Vapor Stream to Adsorber (deg F):	100
Minimum Temperature of Vapor Stream to Adsorber (deg F):	40
Minimum Moisture Content of Vapor Stream to Adsorber (%):	0.4
Type of Adsorbant:	Granular activated carbon
Bed Height:	3
Bed Length:	NA
Bed Width:	NA
Units:	NA
Other Bed Dimension:	diameter
Value:	6
Units:	ft
Minimum Pressure Drop Across Adsorber (In H2O):	1.5 to 2
Maximum Pressure Drop Across Adsorber (In H2O):	5.7
Total Weight of Adsorbant (lbs):	11900
Total Weight of Adsorbant When Saturated (lbs):	14518
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	0.3
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	0.2
Set-up Type:	NA

Method of Determining Breakthrough:

Continuous Emissions Monitor (CEM)	no
Replacement By Weight	no
Periodic Testing	yes
Sampling Frequency	daily monitoring by sense of smell
Sampling Device	sense of smell
Other	NA
Description:	NA
Minimum Concentration at Breakthrough (ppmvd):	NA
Handling Method of Saturated Adsorbant:	disposed of in either incinerator or offsite by bid awardee
Method of Regeneration:	NA
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	8
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Daily pressure drop readings across carbon bed; note whether it emits odors
Have you attached data from recent performance testing?	no
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	no
Have you attached a diagram showing the location and/or configuration of this control apparatus?	yes
Comments:	Headworks carbon adsorber

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 CD5 (Particulate Filter (Other))
Print Date: 8/13/2019

Make:
Manufacturer:
Model:
Filter Description:

Total Filter Area (ft²):
Maximum Design Temperature Capability (°F):
Maximum Design Air Flow Rate (acfm):
Maximum Air Flow Rate to Filter Area Ratio:
Minimum Operating Pressure Drop (in. H2O):
Maximum Operating Pressure Drop (in. H2O):
Maximum Inlet Temperature (°F):
Maximum Operating Exhaust Gas Flow Rate (acfm):

Method for Determining When Filter Replacement is Required:

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached a Particle Size Distribution Analysis? Yes No

Have you attached data from recent performance testing? Yes No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus? Yes No

Have you attached a diagram showing the location and/or configuration of this control apparatus? Yes No

Comments:

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 CD5 (Particulate Filter (Other))
Print Date: 8/13/2019

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 CD6 (Particulate Filter (HEPA))
Print Date: 8/13/2019

Make:
Manufacturer: [AAF Flanders](#)
Model: [Bag-In/Bag-Out Filtration System](#)
Filter Description: [HEPA filter consisting of 4 prefilter modules and 4 HEPA filter modules](#)

Total Filter Area (ft²):
Maximum Design Temperature Capability (°F):
Maximum Design Air Flow Rate (acfm):
Maximum Air Flow Rate to Filter Area Ratio:
Minimum Operating Pressure Drop (in. H₂O):
Maximum Operating Pressure Drop (in. H₂O):
Maximum Inlet Temperature (°F):
Maximum Operating Exhaust Gas Flow Rate (acfm):

Method for Determining When Filter Replacement is Required: [monitor pressure drops across prefilter and HEPA filter](#)

Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-Permitted Sources):

Alternative Method to Demonstrate Control Apparatus is Operating Properly:

Have you attached a Particle Size Distribution Analysis? Yes No

Have you attached data from recent performance testing? Yes No

Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus? Yes No

Have you attached a diagram showing the location and/or configuration of this control apparatus? Yes No

Comments: [HEPA filter removes TSP from exhaust prior to CD7 carbon adsorber](#)

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 CD6 (Particulate Filter (HEPA))
Print Date: 8/13/2019

35857 SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY BOP190001 CD7 (Adsorber)
Print Date: 8/13/2019

Make:	
Manufacturer:	APC Technologies, Inc.
Model:	12' ID Carbon Adsorber
Adsorber Type:	FN
Description:	
Maximum Gas Flow Rate to Adsorber (acfm):	8000
Maximum Temperature of Vapor Stream to Adsorber (°F):	185
Minimum Temperature of Vapor Stream to Adsorber (°F):	120
Minimum Moisture Content of Vapor Stream to Adsorber (%):	0.1
Type of Adsorbant:	Sulfur impregnated granular activated carbon
Bed Height:	4.25
Bed Length:	
Bed Width:	
Units:	Feet
Other Bed Dimension:	Diameter
Value:	12
Units:	feet
Minimum Pressure Drop Across Adsorbant (in. H2O):	
Maximum Pressure Drop Across Adsorber (in. H2O):	30
Total Weight of Adsorbant (lbs):	17000
Total Weight of Adsorbant When Saturated (lbs):	18700
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	0.1
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	
Set-up Type:	Single
Method of Determining Breakthrough (check all that apply):	
Continuous Emissions Monitor (CEM):	<input type="checkbox"/>
Replacement By Weight:	<input type="checkbox"/>
Periodic Testing:	<input checked="" type="checkbox"/>
Sampling Frequency:	Annually
Sampling Device:	EPAM29
Other:	<input checked="" type="checkbox"/>
Description:	analyze carbon to estimate remaining Hg capacity
Minimum Concentration at Breakthrough (ppmvd):	
Handling Method of Saturated Adsorbant:	Disposed of off-site
Method of Regeneration:	

Maximum Number of Sources
Using this Apparatus as a Control
Device (Include Permitted and
Non-Permitted Sources):

1

Alternative Method to Demonstrate
Control Apparatus is Operating
Properly:

Sample carbon and analyze to estimate remaining
Hg capacity.

Have you attached data from
recent performance testing?

Yes No

Have you attached any
manufacturer's data or
specifications in support of the
feasibility and/or effectiveness of
this control apparatus?

Yes No

Have you attached a diagram
showing the location and/or
configuration of this control
apparatus?

Yes No

Comments:

FN = Fixed. Non-regenerative

Make:	NA
Manufacturer:	Cocarb
Model:	NA
Adsorber Type:	Granular activated carbon
Description:	Thickeners carbon adsorber
Maximum Gas Flow Rate to Adsorber (acfm):	1500
Maximum Temperature of Vapor Stream to Adsorber (deg F):	100
Minimum Temperature of Vapor Stream to Adsorber (deg F):	40
Minimum Moisture Content of Vapor Stream to Adsorber (%):	0.4
Type of Adsorbant:	Granular activated carbon
Bed Height:	3
Bed Length:	NA
Bed Width:	NA
Units:	ft
Other Bed Dimension:	diameter
Value:	6
Units:	ft
Minimum Pressure Drop Across Adsorber (In H2O):	NA
Maximum Pressure Drop Across Adsorber (In H2O):	8.3
Total Weight of Adsorbant (lbs):	2550
Total Weight of Adsorbant When Saturated (lbs):	2626
Maximum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	NA
Minimum Adsorbant Capacity (lbs Adsorbate/lbs Adsorbant):	0.03
Set-up Type:	na

Method of Determining Breakthrough:

Continuous Emissions Monitor (CEM)	no
Replacement By Weight	no
Periodic Testing	yes
Sampling Frequency	Once every six months
Sampling Device	daily monitoring sense of smell
Other	NA
Description:	NA
Minimum Concentration at Breakthrough (ppmvd):	NA
Handling Method of Saturated Adsorbant:	disposed of either in incinerator or offsite by bid awardee
Method of Regeneration:	NA
Maximum Number of Sources Using this Apparatus as a Control Device (Include Permitted and Non-permitted Sources):	3
Alternative Method to Demonstrate Control Apparatus is Operating Properly:	Daily pressure drop readings across carbon bed; note if it emits odors
Have you attached data from recent performance testing?	no
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?	no
Have you attached a diagram showing the location and/or configuration of this control apparatus?	yes
Comments:	Thickeners carbon adsorber

BOP190001

**New Jersey Department of Environmental Protection
Emission Points Inventory**

PT NJID	Facility's Designation	Description	Config.	Equiv. Diam. (in.)	Height (ft.)	Dist. to Prop. Line (ft)	Exhaust Temp. (deg. F)			Exhaust Vol. (acfm)			Discharge Direction	PT Set ID
							Avg.	Min.	Max.	Avg.	Min.	Max.		
PT1	Stack #1	Incinerator stack #1	Round	20	58	133	115.0	60.0	130.0	3,300.0	2,600.0	5,500.0	Up	
PT2	Stack #2	Incinerator stack #2	Round	33	85	120	380.0	60.0	450.0	7,425.0	2,600.0	10,400.0	Up	
PT3	Stack #17	Headworks carbon adsorber exhaust	Round	18	12	150	65.0	40.0	100.0	6,240.0	5,940.0	6,540.0	Up	
PT5	SBT vent	Sludge blend tank building vent	Square		27	150	70.0	40.0	100.0	15.0	1.0	30.0	Horizontal	
PT6	Septage vent	Septage receiving station vent	Rectangle	33	0	100	60.0	40.0	100.0	15.0	1.0	30.0	Up	
PT7	BFPs vent	Belt filter presses vent	Round	72	40	93	70.0	50.0	90.0	10,000.0	5,350.0	10,705.0	Horizontal	
PT130	Stack #15	Thickeners carbon adsorber exhaust	Round	18	10	500	70.0	40.0	100.0	1,400.0	750.0	1,500.0	Up	
PT131	T1 vent	Sludge thickener T1 vent	Round		16	218	70.0	40.0	100.0				Horizontal	
PT132	T2 vent	Sludge thickener T2 vent	Round		21	228	70.0	40.0	100.0				Horizontal	
PT140	B600 Boiler	Building 600 Boiler Stack	Round	10	17	265	475.0	60.0	600.0	519.0	0.0	635.0	Up	

SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY (35857)
BOP190001

Date: 8/13/2019

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 1 Incinerator R2 fluidized bed incinerator #2, three belt filter presses and headworks

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS2	Inc 2->Stk2	Incinerator #2, 16ft	Normal - Steady State	E2	CD2 (P) CD3 (S) CD5 (T) CD6 (T) CD7 (T)	PT2	5-01-005-16	0.0	8,760.0	A	5,000.0	10,400.0	340.0	450.0
OS3	SBT	Sludge blend tank	Normal - Steady State	E4	CD1 (S) CD2 (S) CD4 (S)	PT2 PT3 PT5	5-01-005-06	0.0	8,760.0	A	1.0	10,400.0	40.0	450.0
OS4	Sept	Septage receiving station	Normal - Steady State	E5	CD1 (S) CD2 (S) CD4 (S)	PT2 PT3 PT6	5-01-005-06	0.0	8,760.0	A	1.0	10,400.0	40.0	450.0
OS5	BFP1	Belt filter press #1	Normal - Steady State	E6	CD2 (S)	PT2 PT7	5-01-005-06	0.0	8,760.0	A	5,000.0	10,705.0	50.0	450.0
OS6	BFP2	Belt filter press #2	Normal - Steady State	E7	CD2 (S)	PT2 PT7	5-01-005-06	0.0	8,760.0	A	5,000.0	10,705.0	50.0	450.0
OS7	BFP3	Belt filter press #3	Normal - Steady State	E8	CD2 (S)	PT2 PT7	5-01-005-06	0.0	8,760.0	A	5,000.0	10,705.0	50.0	450.0

SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY (35857)
BOP190001

Date: 8/13/2019

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 130 Thickeners Sludge thickeners T1 and T2 and wet well

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS130	T1>AC	Exhaust sludge thickener T1 through its carbon adsorber unit.	Normal - Steady State	E130	CD130 (P)	PT130	5-01-007-71	8,040.0	8,760.0	A	750.0	1,500.0	40.0	100.0
OS131	T2>AC	Exhaust sludge thickener T2 through its carbon adsorber unit.	Normal - Steady State	E131	CD130 (P)	PT130	5-01-007-71	8,040.0	8,760.0	A	750.0	1,500.0	40.0	100.0
OS132	WW>AC	Exhaust wet well through its carbon adsorber unit.	Normal - Steady State	E132	CD130 (P)	PT130	5-01-007-71	8,040.0	8,760.0	A	750.0	1,500.0	40.0	100.0
OS133	T1>air	Exhaust sludge thickener T1 through vent (maintenance mode)	Maintenance	E130		PT131	5-01-007-71	0.0	720.0	A			40.0	100.0
OS134	T2>air	Exhaust sludge thickener T2 through vent (maintenance mode)	Maintenance	E131		PT132	5-01-007-71	0.0	720.0	A			40.0	100.0
OS135	WW>air	Exhaust wet well through T2 vent (maintenance mode)	Maintenance	E132		PT132	5-01-007-71	0.0	720.0	A			40.0	100.0

SOMERSET RARITAN VALLEY SEWERAGE AUTHORITY (35857)

Date: 8/13/2019

BOP190001

New Jersey Department of Environmental Protection
Emission Unit/Batch Process Inventory

U 140 B600 Boiler Building 600 Hot Water Heating Boiler

UOS NJID	Facility's Designation	UOS Description	Operation Type	Signif. Equip.	Control Device(s)	Emission Point(s)	SCC(s)	Annual Oper. Hours		VOC Range	Flow (acfm)		Temp. (deg F)	
								Min.	Max.		Min.	Max.	Min.	Max.
OS1	B600 Boiler	Run Building 600 Heating Boiler	Normal - Steady State	E140		PT140	1-03-006-03	0.0	4,380.0	A	0.0	635.0	60.0	600.0