

Facility DEC ID: 5533000038

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 5-5330-00038/00021
Effective Date: 09/13/2023 Expiration Date: 09/12/2033

Permit Issued To: ENVIRONMENTAL SOIL MANAGEMENT INC
dba ESMI A Clean Earth Company
350 POPLAR CHURCH RD
CAMP HILL, PA 17011-1754

Contact: PETER HANSEN
ESMI OF NEW YORK
304 TOWPATH LN
FORT EDWARD, NY 12828
(518) 747-5500

Facility: Environmental Soil Management of New York LLC dba ESMI A Clean Earth
Company
304 Towpath Rd
Fort Edward, NY 12828

Description:

ENVIRONMENTAL SOIL MANAGEMENT OF NEW YORK, L.L.C. (ESMI of New York) owns and operates a Thermal Treatment Facility for the recycling of petroleum and non-petroleum hydrocarbon contaminated soils and media. Contaminants are removed and treated by thermal desorption, a technology that destroys hydrocarbons. This process entails heating contaminated material in a rotary kiln at temperatures between 350 and 1,000 deg F. The contaminants are volatilized and driven from the material. They are subsequently destroyed in an oxidizer, resulting in better than 99% destruction removal efficiency of VOC and 99.9996% for PCB contaminated soil. After exiting the oxidizer, the air stream is cooled and then passed through a baghouse to remove fine particles. Through post-treatment analysis, the facility is able to provide clients with documentation that their material has been cleaned to specific cleanup levels. Recycled material can be returned to the client or reused in accordance with beneficial reuse determinations.

The facility emissions are limited to 99 TPY Sulfur Dioxide and 9.7 TPY Hydrogen Chloride in order to avoid being subject to Title V permitting requirements. All other contaminants emitted at this facility have potentials to emit less than the Title V threshold values. Distillates fuel oil burned at the facility is subject to a maximum of 0.0015 %(wt) sulfur and waste oil burned at the facility is subject to a maximum of 0.25 % (wt) sulfur content in order to comply with the 99 TPY emissions limit.

Emission Unit ID #U-00002 - Material Storage & Handling

Once materials are received, they are stored in an environmentally secure 30,000 sq. ft. building. The building construction includes a sealed and reinforced concrete floor with a 40-mil HDPE liner as secondary containment. Other environmental controls include building ventilation system and groundwater impact monitoring system. Vented air is filtered with emission control equipment. Exhaust is filtered to remove particulates and

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then polished with activated carbon to remove volatiles organic compounds (VOCs). Emissions are subject to 6 NYCRR Part 212 requirements for opacity, grain loading and degree of control for VOCs.

Because each load of soil has different characteristics, material preparation plays a vital role in system performance. Raw materials commonly encountered may contain high percentages of moisture, clay, debris, and contaminants. Large rocks, wood debris, metal and miscellaneous solid wastes are removed. In order to achieve uniform feed and efficient operation, differing materials (jobs) of the same waste classification are typically blended together prior to treatment. Materials that meet the following definitions can be treated and recycled at the facility providing they are not a State or Federal hazardous wastes.

"Media" can include natural soils, clay sorbent materials and sand filtration media.

"Contaminants" include petroleum hydrocarbons such as fuels and lubricating oils and non-petroleum hydrocarbons such as PCB, coal tar and MGP waste.

Material Preparation

Materials are received, stored in segregated concrete bins and treated according to waste type. Differing materials within specific waste categories may be blended together to achieve a consistent homogeneous mixture. Some materials with excessive moisture may be blended with lime to reduce moisture content. Blended materials are then sent through a preprocessing phase to remove boulders greater than 9", metal objects and combustible materials such as plastic and wood. Remaining material is sent through a jaw crusher to reduce the size of materials to 3" or less. The result is a uniform, consistent feedstock ready for the thermal treatment process.

Emission Unit ID #U-00001 - Overall Treatment System Description includes a stationary and a mobile soil remediation unit.

As a whole, the thermal treatment system consists of several components; the preprocessing equipment, the soil feed unit, the primary treatment unit, the processed soil handling unit, the multiple cyclone dust separators (not required and occasionally bypassed), the secondary (vapor) treatment units, the evaporative cooling chambers, the baghouse/dust filtration units, and the control house. ESMI of New York's high capacity thermal desorption plant is permitted to treat up to 810 pounds of contaminant per hour per rotary kiln. The high temperature dryer can maintain soil treatment temperatures of 350 to 1000F, with up to 15 minutes of retention time. The unit also features a two stage particulate removal system and a thermal oxidizer with >99% destruction efficiency for VOC and a demonstrated 98.61% for PCB contaminated soil.

The soil treatment system consists of the rotary kiln (Primary Treatment Unit, PTU) and the processed material discharge system. These components are followed by the exhaust gas treatment system which consists of a multiple cyclone separators, afterburner/oxidizer (Secondary Treatment Unit, STU), evaporative cooling chambers and baghouses.

Emissions are subject to: 6 NYCRR Part 212 requirements for opacity, grain loading and degree of control for VOCs.

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Fuels burned are subject to: 6NYCRR Part 225 requirements for waste fuel specifications of 225-2.5.

Coal Tar contaminated soils must be blended with low sulfur contaminated soils to bring the %S in the hydrocarbon portion of the soil fed to the remediation unit to less than 1.0%

The thermal incinerator operating temperature must maintain a minimum of:

1590 degrees Fahrenheit when processing contaminated soils, other than coal tar and PCB contaminated soils,

1650 degrees Fahrenheit when processing PCB contaminated soils, and

1710 degrees Fahrenheit when processing coal tar contaminated soils in order to assure the same degree of control demonstrated during the stack test.

The baghouse pressure differential must be maintained at a minimum of 4.0 inches of water during processing in order to assure the same degree of particulate control as demonstrated during the stack testing.

Process 001 - This is a stationary soil remediation unit

Process 003 - This is a mobile remediation unit of similar design and capacity as Process 001

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

Permit Administrator: BETH A MAGEE
NYSDEC - WARRENSBURG SUBOFFICE
232 GOLF COURSE RD
WARRENSBURG, NY 12885-1172

Authorized Signature: _____ Date: ___ / ___ / _____

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Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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

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Facility Level

- 7 5 Submission of application for permit modification or renewal-REGION 5 SUBOFFICE - WARRENSBURG

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

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

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

Item 2.1:

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

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

Item 3.1:

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

Item 3.2:

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

Item 3.3

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

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

Item 4.1:

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

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

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

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

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 5 Sub-office
Division of Environmental Permits
232 Golf Course Road
Warrensburg, NY 12885-1172
(518) 623-1281

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ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY PERMIT

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dba ESMI A Clean Earth Company
350 POPLAR CHURCH RD
CAMP HILL, PA 17011-1754

Facility: Environmental Soil Management of New York LLC dba ESMI A Clean Earth
Company
304 Towpath Rd
Fort Edward, NY 12828

Authorized Activity By Standard Industrial Classification Code:
4953 - REFUSE SYSTEMS
9999 - NONCLASSIFIABLE ESTABLISHMENTS

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NOTE: * preceding the condition number indicates capping.

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FEDERALLY ENFORCEABLE CONDITIONS

Renewal 2/FINAL

**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Sealing - 6 NYCRR 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation. Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

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

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

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

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

Item C: Maintenance of Equipment - 6 NYCRR 200.7

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

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required to operate such device effectively.

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

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

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

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

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

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

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

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

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request.

Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item H: Proof of Eligibility for Sources Defined as Trivial

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Activities - 6 NYCRR 201-3.3 (a)

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

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

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

Item J: Open Fires Prohibitions - 6 NYCRR 215.2

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

Item K: Permit Exclusion - ECL 19-0305

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

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

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

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 1: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 1.1:

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

Emission Unit: U-00001

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

Item 1.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Coal Tar contaminated soils must be blended with low sulfur contaminated soils in accordance with the O&M Manual and SW Permit to bring the %S in the hydrocarbon portion of the soil fed to the remediation units to less than 1.0%S.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 2: Facility Permissible Emissions
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement:6 NYCRR Subpart 201-7

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Item 2.1:

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

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

CAS No: 007446-09-5	PTE: 198,000 pounds per year
Name: SULFUR DIOXIDE	

CAS No: 007647-01-0	PTE: 19,400 pounds per year
Name: HYDROGEN CHLORIDE	

**Condition 3: Capping Monitoring Condition
Effective between the dates of 09/13/2023 and 09/12/2033**

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 3.1:

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

6 NYCRR 201-6.1 (a)

Item 3.2:

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

Item 3.3:

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

Item 3.4:

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

Item 3.5:

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

Item 3.6:

The Compliance Demonstration activity will be performed for the Facility.

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Regulated Contaminant(s):
 CAS No: 007647-01-0 HYDROGEN CHLORIDE

Item 3.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes
 Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS
 Monitoring Description:
 Actual chlorinated compound concentrations in feed soils are used to calculate emissions. All chlorine is assumed to convert to HCl.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
 Process Material: SOIL
 Parameter Monitored: CHLORINE
 Upper Permit Limit: 9.7 tons per year
 Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE
 Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2024.
 Subsequent reports are due every 12 calendar month(s).

Condition 4: Capping Monitoring Condition
 Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 4.1:

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

6 NYCRR Subpart 201-6

Item 4.2:

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

Item 4.3:

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

Item 4.4:

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

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an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 4.5:

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

Item 4.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY998-00-0 VOC

Item 4.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes
Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE
Monitoring Description:
Allowable annual emissions of VOC from Emission Unit 00001 is not to exceed 40 tons per year in order to assure total facility wide emissions remain below 50 tpy. Emissions are to be calculated based upon Actual VOCs fed to the kiln multiplied time (1- the most recent %DRE/100) + the total VOC content of the bio-solids fed to the pug mill.

At this time, the most recent %DREs are 99.9996% for the stationary treatment unit and 99.72% for the portable treatment unit.

The VOC content of the biosolids (lb/ton) will be determined during the RD&D test.

Parameter Monitored: VOC's
Upper Permit Limit: 80000 pounds per year
Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2024.
Subsequent reports are due every 12 calendar month(s).

**Condition 5: Capping Monitoring Condition
Effective between the dates of 09/13/2023 and 09/12/2033**

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Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 5.1:

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

6 NYCRR 201-6.1 (a)

Item 5.2:

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

Item 5.3:

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

Item 5.4:

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

Item 5.5:

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

Item 5.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 5.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

The facility will limit emissions of sulfur dioxide from all sources to less than 198,000 pounds or less per 12-month period. Emissions will be calculated based upon the percent sulfur in the hydrocarbon portion of the soil remediated, to be determined utilizing one of the

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following methods: regulatory standard (State or Federal) for contaminant, analytical methodology in accordance with NYSDEC Permit No. 5-5330-00038/00019, or fuel source specification, and the regulated sulfur content of the waste fuel and/or oil burned in the treatment units.

Parameter Monitored: SULFUR DIOXIDE
 Upper Permit Limit: 198000 pounds per year
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2024.
 Subsequent reports are due every 12 calendar month(s).

Condition 6: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement:6 NYCRR Subpart 202-1

Item 6.1:
 The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):	
CAS No: 001746-01-6	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
CAS No: 0NY998-00-0	VOC
CAS No: 001336-36-3	POLYCHLORINATED BIPHENYL

Item 6.2:
 Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
 Monitoring Description:

NYSDEC and ESMI worked to identify reasonable criteria by which a contaminated media with the primary contaminant being PCB’s would trigger the completion of a Proof of Performance (PoP) test. Through this effort, conditions which would invoke the requirement for the completion of a PCB PoP test were identified. This testing shall demonstrate the overall destruction and removal efficiency (DRE) for PCB and the formation of D/F on a pounds D/F emitted per pound of PCB input basis. The conditions are as follows:

- The primary contaminant, the reason the media is being thermally treated, is PCBs with a concentration greater than 1ppm, and
- The total mass of PCBs to be fed to the TDU during the PoP test is

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greater than 0.825 pounds

This does not include soils containing an average of 1.0 ppm or less total PCBs that, once treated, may be beneficially used in accordance with BUD #610-5-58 or with another pertinent BUD granted pursuant to 6 NYCRR Part 360.

Example: Manufactured Gas Plant (MGP) contaminated soil with a 1.1 ppm PCB hit in one sample set but the average concentration in the incoming soil is < 1 ppm.

Upon media receipt at ESMI, confirmation sampling would be completed to confirm the concentration of PCBs exists in the media to meet the greater than 1ppm and the mass of 0.825 pounds.

- If the PCB concentration in the media averages less than 5ppm for the initial PoP test, ESMI would be required to perform a subsequent test, in the future, if annual feed of PCBs exceeds 500 pounds on a 12 month rolling basis. This testing is to be performed with soils having an average PCB concentration between 5 and 45 ppm. This testing would again have to demonstrate the overall DRE for PCB and the formation of D/F on a pounds D/F emitted per pound of PCB input basis.
- The testing, as described above, plus that for overall DRE of VOC, shall be required once per permit term (once every ten years).
- If PCB average concentrations in the test media exceeds 5ppm in the initial PoP test, ESMI would not be required to complete the subsequent testing described above.
- Test scheduling will be coordinated with the NYSDEC and the testing contractor as expeditiously as possible once ESMI

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has verified the above criteria for testing has been met.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 7: Notification
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement:6 NYCRR 202-1.2

Item 7.1:

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

Condition 8: Visible Emissions Limited
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement:6 NYCRR 211.2

Item 8.1:

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

Condition 9: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

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

Item 9.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 9.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

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

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

The facility owner or operator shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the limit specified (except the emission of uncombined water) are observed for three consecutive operating days from the same emission point, the facility owner or operator will notify the Department of the observations within one business day. The facility owner or operator will also perform an EPA Reference Test Method 9 opacity evaluation analysis of the affected emission point and submit the results to the Department.

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

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

Parameter Monitored: OPACITY
 Upper Permit Limit: 20 percent
 Reference Test Method: EPA Reference Test Method 9
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
 Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 10: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement: 6 NYCRR 212-1.7 (b)

Item 10.1:
 The Compliance Demonstration activity will be performed for the facility:
 The Compliance Demonstration applies to:

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Facility DEC ID: 5533000038

Emission Unit: U-00002

Regulated Contaminant(s):
CAS No: 0NY998-00-0 VOC

Item 10.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Carbon bed monitoring shall be performed once per month with a PID. When the PID meter indicates VOC breakthrough, maintenance shall be performed. Maintenance includes cleaning, adjusting or changing-out the activated carbon.. After maintenance, carbon beds must operate at 99% control efficiency or better. VOC readings less than the accuracy of the PID (considered 2 ppm or 10% of recorded value which ever is greater) will not be considered breakthrough.

Parameter Monitored: VOC's
Lower Permit Limit: 99 percent
Reference Test Method: Method 21
Monitoring Frequency: MONTHLY
Averaging Method: MINIMUM - NOT TO FALL BELOW STATED
VALUE - SEE MONITORING DESCRIPTION
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 11: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement:6 NYCRR 212-2.3 (b)

Item 11.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 001746-01-6 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
CAS No: 0NY998-00-0 VOC
CAS No: 001336-36-3 POLYCHLORINATED BIPHENYL

Item 11.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

In order to assure they are maintaining the control efficiencies needed to demonstrate that emissions are in compliance with 6 NYCRR 212-2.3(b), the thermal oxidizer must maintain temperatures at or above those demonstrated on average during the last PoP test for the principal

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contaminant of concern (VOC, PCB or Coal Tar) for the respective units (on-site or mobile). These contaminants are "A" rated under Part 212. The minimum temperatures at the time of issuance of the permit modification are:

Mobile thermal oxidizer for;

PCB - 1650 deg F

VOC - 1590 deg F

Coal Tar - 1710 deg F

Monitoring Frequency: CONTINUOUS

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

Condition 12: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement:6 NYCRR 212-2.3 (b)

Item 12.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 12.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

Coal Tar contaminated soils must be blended with low sulfur contaminated soils to bring the %S in the hydrocarbon portion of the soil fed to the remediation units to less than 1.0%

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: SOIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 1.0 percent by weight

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL
CHANGE

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

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Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 13: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement:6 NYCRR 212-2.3 (b)

Item 13.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 001336-36-3 POLYCHLORINATED BIPHENYL

Item 13.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Pursuant to the requirements of 6 NYCRR 212-2.3(b), the annual emissions of PCBs (a Part 212 "A" rated contaminant) from this facility are limited to 4.308 lbs. At this rating, modeled PCB annual ambient impacts are approximately 5% of the annual guideline concentrations.

PCB annual emissions will be calculated based upon the 2016 PCB Proof of Performance Test showing 99.9996% destruction removal efficiency (DRE).

Work Practice Type: PROCESS MATERIAL THRUPUT
Process Material: PCB CONTAMINATED SOIL
Upper Permit Limit: 4.308 pounds per year
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2024.
Subsequent reports are due every 12 calendar month(s).

Condition 14: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement:6 NYCRR 212-2.3 (b)

Item 14.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY998-00-0 VOC

Permit ID: 5-5330-00038/00021

Facility DEC ID: 5533000038

Item 14.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The total volatile & semi-volatile content of PCS after blending which goes to the soil remediation units for treatment is not to exceed 810 lb/hr per rotary kiln. The Monthly VOC emissions for each job are calculated using the Average TPH of the submitted samples or the Total average VOC plus SVOC results, whichever is greater, and multiplying that number by quantity delivered multiplied by the demonstrated destruction Removal efficiency from the most recent Proof of performance stack test.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: SOIL

Parameter Monitored: VOC CONTENT

Upper Permit Limit: 810 pounds per hour

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

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

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

Condition 15: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement:6 NYCRR 212-2.3 (b)

Item 15.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 001746-01-6	2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN
CAS No: 0NY998-00-0	VOC
CAS No: 001336-36-3	POLYCHLORINATED BIPHENYL

Item 15.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to assure they are maintaining the control efficiencies needed to demonstrate that emissions are in compliance with 6 NYCRR 212-2.3(b), the thermal oxidizer must maintain temperatures at or above those demonstrated

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on average during the last PoP test for the principal contaminant of concern (VOC, PCB or Coal Tar) for the respective units (on-site or mobile). These contaminants are "A" rated under Part 212. The minimum temperatures at the time of issuance of the permit modification are:

On-site thermal oxidizer for;

PCB - 1512 deg F
 VOC - 1500 deg F
 Coal Tar - 1500 deg F

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

Condition 16: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement:6 NYCRR 212-2.3 (b)

Item 16.1:
 The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
 CAS No: 001336-36-3 POLYCHLORINATED BIPHENYL

Item 16.2:
 Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:
 Pursuant to the requirements of 6 NYCRR 212-2.3(b) and to match the limit contained in the permittee's Part 360 permit (5-5330-00038/00019), the maximum concentration of PCB (a Part 212 "A" rated contaminant) per batch of media to be treated must not exceed 45 ppm. This primarily assures that they are not treating Hazardous Waste of 50 ppm or greater and is part of the overall scheme in limiting PCB emissions under Part 212.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
 Process Material: PCB CONTAMINATED SOIL
 Parameter Monitored: CONCENTRATION
 Upper Permit Limit: 45 parts per million by weight
 Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

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

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

Condition 17: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement:6 NYCRR 212-2.3 (b)

Item 17.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 17.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

Pursuant to the requirements of 6 NYCRR 212-2.3(b), the annual emissions of D/F (a Part 212 "A" rated contaminant) from this facility are limited to 0.000007223 lbs.

Emissions are to be calculated as 2.65 E-10 lb/lb of PCB feed to the PTU. This is based upon the 2016 Proof of Performance Testing.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: PCB CONTAMINATED SOIL

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 0.000007223 pounds per year

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

Condition 18: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement:6 NYCRR 212-2.3 (b)

Item 18.1:

The Compliance Demonstration activity will be performed for the Facility.

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Regulated Contaminant(s):
CAS No: 001336-36-3 POLYCHLORINATED BIPHENYL

Item 18.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The feed rate to the primary treatment unit (PTU) for PCB contaminated media is limited to no more than 45 tons per hour. This will limit emissions of PCBs (a Part 212 A-rated contaminant) to acceptable levels, per 6 NYCRR 212-2.3(b). For purposes of this condition, PCB contaminated media does not include soils containing 1.0 ppm or less total PCBs that, once treated, may be beneficially used in accordance with BUD #610-5-58 or with another pertinent BUD granted pursuant to 6 NYCRR Part 360. Those soils, while not subject to the 45 ton per hour limit on media feed to the PTU, are subject to the 810 pound per hour feed limit on total volatile and semi-volatile content of petroleum contaminated soil to the thermal desorption unit found elsewhere in this permit.

Parameter Monitored: MASS FLOW RATE
Upper Permit Limit: 45 tons per hour
Monitoring Frequency: CONTINUOUS
Averaging Method: 1 HOUR MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2024.
Subsequent reports are due every 12 calendar month(s).

Condition 19: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

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

Item 19.1:

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

Emission Unit: U-00001
Process: 001

Emission Unit: U-00001
Process: 003

Emission Unit: U-00002

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Process: 002

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 19.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions of solid particulates are limited to less than 0.050 grains of particulates per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis. Compliance testing will be conducted at the discretion of the Department.

Upper Permit Limit: 0.05 grains per dscf

Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 20: Compliance Demonstration

Effective between the dates of 09/13/2023 and 09/12/2033

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

Item 20.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00001

Process: 004

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 20.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions of solid particulates are limited to less than 0.030 grains of particulates per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis. Compliance testing will be conducted once during the term of the permit.

Upper Permit Limit: 0.03 grains per dscf

Reference Test Method: EPA Method 5

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Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 21: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

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

Item 21.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 21.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

Owners or operators of emission sources that fire distillate oil are limited to a 0.0015 percent sulfur content by weight of the fuel. Compliance with the sulfur-in-fuel limitation is based on fuel vendor receipts. All fuel vendor receipts must be maintained on site or at a Department approved alternative location for a minimum of five years.

Note - Process sources and incinerators must comply with the above requirements on or after July 1, 2023.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.0015 percent by weight
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 22: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

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

Item 22.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 22.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

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Monitoring Description:

Owners or operators of emission sources that fire waste oil are limited to a 0.25 percent sulfur content by weight of the fuel on or after July 1, 2023. Compliance with the sulfur-in-fuel limitation is based on fuel vendor receipts. All fuel vendor receipts must be maintained on site or at a Department approved alternative location for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: WASTE OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.25 percent by weight

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

Condition 23: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement:6 NYCRR 225-1.6 (b)

Item 23.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 23.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any facility who sells oil, waste oil, and/or coal must retain on site or at a Department approved alternative location, for at least five years, records containing the following information:

- (i) fuel analyses and data on the quantities of all oil, waste oil, and/or coal received; and
- (ii) the names of all purchasers, fuel analyses, and data on the quantities of all oil, waste oil, and/or coal sold.

Such fuel analyses must contain, as a minimum:

- (i) data on the sulfur content, ash content, specific gravity, and heating value of residual oil;
 - (ii) data on the sulfur content, specific gravity, and heating value of distillate oil and/or waste oil;
- and/or

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(iii) data on the sulfur content, ash content, and heating value of coal.

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

Condition 24: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement: 6 NYCRR 225-2.5

Item 24.1:
 The Compliance Demonstration activity will be performed for the Facility.

Item 24.2:
 Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The owner or operator of a facility permitted to burn waste oil is limited to burning waste oil that has a minimum gross heat content of 125,000 Btu per gallon. The owner or operator is required to either sample, analyze, and measure each load of waste oil received or maintain copies of supplier analyses of each load received.

Records shall be kept of the total quantity of waste oil received as well as the name and address of each waste oil supplier. Copies of all records shall be maintained on site for a minimum of five years. Title V facilities shall submit reports to the Department on a semiannual calendar basis that all records required in Section 225-2.6 are being maintained at the facility. All facilities shall submit copies of these records upon the Department's request.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
 Process Material: WASTE OIL
 Parameter Monitored: HEAT CONTENT
 Lower Permit Limit: 125000 British thermal units per gallon
 Monitoring Frequency: PER DELIVERY
 Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE AT ANY TIME
 Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 25: Compliance Demonstration

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Applicable Federal Requirement:6 NYCRR 225-2.5

Item 25.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 25.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The owner or operator of a facility permitted to burn waste oil is limited to burning waste oil that contains less than 100 ppm Lead. The owner or operator is required to either sample, analyze, and measure each load of waste oil received or maintain copies of supplier analyses of each load received.

Records shall be kept of the total quantity of waste oil received as well as the name and address of each waste oil supplier. Copies of all records shall be maintained on site for a minimum of five years. Title V facilities shall submit reports to the Department on a semiannual calendar basis that all records required in Section 225-2.6 are being maintained at the facility. All facilities shall submit copies of these records upon the Department's request.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: WASTE OIL

Parameter Monitored: LEAD

Upper Permit Limit: 100 Parts per million, dry weight

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 26: Compliance Demonstration

Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement:6 NYCRR 225-2.5

Item 26.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 26.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

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Monitoring Description:

The owner or operator of a facility permitted to burn waste oil is limited to burning waste oil that contains less than 2 ppm Polychlorinated Biphenyls (PCBs). The owner or operator is required to either sample, analyze, and measure each load of waste oil received or maintain copies of supplier analyses of each load received.

Records shall be kept of the total quantity of waste oil received as well as the name and address of each waste oil supplier. Copies of all records shall be maintained on site for a minimum of five years. Title V facilities shall submit reports to the Department on a semiannual calendar basis that all records required in Section 225-2.6 are being maintained at the facility. All facilities shall submit copies of these records upon the Department's request.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: WASTE OIL

Parameter Monitored: POLYCHLORINATED BIPHENYL

Upper Permit Limit: 2 Parts per million, dry weight

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 27: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable Federal Requirement:6 NYCRR 225-2.5

Item 27.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 27.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The owner or operator of a facility permitted to burn waste oil is limited to burning waste oil that contains less than 1000 ppm Total Halogens. The owner or operator is required to either sample, analyze, and measure each load of waste oil received or maintain copies of supplier analyses of each load received.

Records shall be kept of the total quantity of waste oil received as well as the name and address of each waste oil supplier. Copies of all records shall be maintained on

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site for a minimum of five years. Title V facilities shall submit reports to the Department on a semiannual calendar basis that all records required in Section 225-2.6 are being maintained at the facility. All facilities shall submit copies of these records upon the Department's request.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: WASTE OIL

Parameter Monitored: HALOGEN, TOTAL ORGANIC

Upper Permit Limit: 1000 Parts per million, dry weight

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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STATE ONLY ENFORCEABLE CONDITIONS

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Emergency Defense - 6 NYCRR 201-1.5

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

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

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

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

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

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

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

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

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

Where facility owners and/or operators keep records pursuant to compliance with the requirements of 6 NYCRR Subpart 201-5.4, and/or the emission capping requirements of 6 NYCRR Subpart 201-7, the Department will make such records available to the public upon request in accordance

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with 6 NYCRR Part 616 - Public Access to Records.
Facility owners and/or operators must submit the records
required to comply with the request within sixty working
days of written notification by the Department.

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

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

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

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.

Condition 28: Contaminant List

Effective between the dates of 09/13/2023 and 09/12/2033

Applicable State Requirement: ECL 19-0301

Item 28.1:

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

CAS No: 001336-36-3
Name: POLYCHLORINATED BIPHENYL

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

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

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

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

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

Condition 29: Malfunctions and Start-up/Shutdown Activities
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable State Requirement: 6 NYCRR 201-1.4

Item 29.1:

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

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

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

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

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

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Condition 30: Emission Unit Definition
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable State Requirement: 6 NYCRR Subpart 201-5

Item 30.1:

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

Emission Unit: U-00001

Emission Unit Description:

Emission Unit ID #U-00001 - Overall Treatment System Description includes a stationary and a mobile soil remediation unit.

The thermal treatment systems consist of several components; the preprocessing equipment, the soil feed unit, the primary treatment unit (PTU, rotary kiln), the processed soil handling unit, the cyclone dust separators (not required by permit), the secondary treatment unit (STU, thermal oxidizer), the evaporative cooling chamber, the baghouse/dust filtration unit, and the control house. ESMI’s high-capacity thermal desorption systems are permitted to treat up to 810 pounds of contaminant per hour per rotary kiln. The high temperature rotary kilns can maintain soil treatment temperatures of 350 to 1000F, with up to 15 minutes of retention time. The units also feature a two-stage particulate removal system and a thermal oxidizer with a greater than 99% destruction efficiency for VOC and a greater than 99.9% for PCB contaminated soil.

Emissions are subject to: 6 NYCRR Part 212 requirements for opacity, grain loading and degree of control for VOCs.

Fuels burned are subject to: 6 NYCRR Part 225 requirements for waste fuel specifications of 225-2.5.

Coal Tar contaminated soils may be blended with low sulfur contaminated soils to bring the %S in the hydrocarbon portion of the soil fed to the remediation units to less than 1.0%

The thermal oxidizer operating temperature must maintain a minimum of:

Process 001 - Stationary thermal desorption unit

- PCB – 1512 deg F
- VOC – 1500 deg F
- Coal Tar – 1500 deg F

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Process 003 - Mobile thermal desorption unit of similar design and capacity as Process 001

PCB - 1650 deg F
VOC – 1590 deg F
Coal Tar - 1710 deg F

Building(s): 00001

Item 30.2:

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

Emission Unit: U-00002

Emission Unit Description:

Emission Unit ID #U-00002 - Material Storage & Handling

Once materials are received, they are stored in an environmentally secure 30,000 sq. ft. building. The building construction includes a sealed and reinforced concrete floor with a 40-mil HDPE liner as secondary containment. Other environmental controls include building ventilation system and groundwater impact monitoring system. Building vented air is filtered with emission control equipment. Exhaust is filtered to remove particulates and then polished with activated carbon to remove volatile organic compounds (VOCs). Emissions are subject to 6 NYCRR Part 212 requirements for opacity, grain loading and degree of control for VOCs.

Because each load of soil and media (material) have different characteristics, material preparation plays a vital role in system performance. Materials commonly received at the Facility may contain high percentages of moisture, clay, debris, and contaminants. Large rocks, wood debris, metal and miscellaneous solid wastes are removed. To achieve uniform feed and efficient Facility operation, differing materials (jobs) of the same waste classification may be blended together prior to treatment. Materials that meet the following definitions can be treated and recycled at the facility providing they are not a State or Federal hazardous waste.

"Media" can include inert, predominantly non-combustible, non-volatile solids such as: soil, stone, mine tailings, concrete, brick, lime, dredged material, iron oxide and other such mineral-based materials.

"Contaminants" include a wide array of petroleum hydrocarbons such as fuels, lubricating and industrial oils, solvents, waxes, and petrolatum and non-petroleum hydrocarbons such as PCB, coal tar and MGP waste.

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Material Preparation

Materials are received, stored, and treated according to waste type or material feed characteristics as desired to support efficient Facility operations. Differing materials may be blended to achieve a consistent homogeneous mixture. Some materials with excessive moisture may be blended with lime to reduce moisture content. Blended materials are then sent through a preprocessing phase to remove boulders greater than 8", metal objects, and combustible materials such as plastic and wood. Remaining material is sent through a jaw crusher to reduce the size of materials to 3" or less. The result is a uniform, consistent feedstock ready for the thermal treatment process.

Building(s): 00001

Condition 31: Renewal deadlines for state facility permits
Effective between the dates of 09/13/2023 and 09/12/2033

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

Item 31.1:

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

Condition 32: CLCPA Applicability
Effective between the dates of 09/13/2023 and 09/12/2033

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

Item 32.1:

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

Condition 33: Compliance Demonstration
Effective between the dates of 09/13/2023 and 09/12/2033

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

Item 33.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 33.2:

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Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Division of Air Resources
NYS Dept. of Environmental Conservation
Region 5
232 Golf Course Rd.
Warrensburg, NY 12885

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 34: Air pollution prohibited
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable State Requirement:6 NYCRR 211.1

Item 34.1:

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

Condition 35: Prohibitions
Effective between the dates of 09/13/2023 and 09/12/2033

Applicable State Requirement:6 NYCRR 217-3.2

Item 35.1: No person who owns, operates or leases a heavy duty vehicle;including a bus or truck, the motive power for which is provided by a diesel fueled engine or who owns, leases or occupies land and has the actual or apparent dominion or control over the operation of a heavy duty vehicle; including a bus or truck present on such land (the motive power for which said heavy duty vehicle is provided by a diesel or non-diesel fueled engine), shall allow or permit the engine of such heavy duty vehicle to idle for more than five consecutive minutes when the heavy duty vehicle is not in motion, except as otherwise permitted by section 6 NYCRR 217-3.3.

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

Condition 36: Emission Point Definition By Emission Unit

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Effective between the dates of 09/13/2023 and 09/12/2033

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 36.1:

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

Emission Unit: U-00001

Emission Point: 00001

Height (ft.): 55 Diameter (in.): 44
 NYTMN (km.): 4792.78 NYTME (km.): 615.847 Building: 00001

Emission Point: 00003

Height (ft.): 39 Length (in.): 80 Width (in.): 32
 NYTMN (km.): 4792.754 NYTME (km.): 615.854

Item 36.2:

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

Emission Unit: U-00002

Emission Point: 00002

Height (ft.): 55 Diameter (in.): 26
 NYTMN (km.): 4792.739 NYTME (km.): 615.813 Building: 00001

Condition 37: Process Definition By Emission Unit

Effective between the dates of 09/13/2023 and 09/12/2033

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 37.1:

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

Emission Unit: U-00001

Process: 001

Source Classification Code: 5-04-105-30

Process Description:

This process is the thermal desorption of contaminated media in the primary treatment units followed by thermal oxidation of effluent gasses in the secondary treatment units. The treatment units may be fueled by No. 2, No. 4, or No. 6 fuel oil, non-residential waste oil A, natural gas, or liquid petroleum gas. Each unit is equipped with an optional multiple cyclone and baghouse for emissions control. Emissions testing in 1998 demonstrated the ability to operate without multiple cyclones and meet applicable particulate matter emissions limitations. Biosolids/papersludge is managed in the pugmill at an approximate rate of 10-tons per hour.

Emission Source/Control: 00001 - Combustion

Design Capacity: 50 million Btu per hour

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Emission Source/Control: 00003 - Combustion
 Design Capacity: 40.5 million Btu per hour

Emission Source/Control: 00004 - Control
 Control Type: MULTIPLE CYCLONE W/O FLY ASH INJECTION

Emission Source/Control: 00005 - Control
 Control Type: FABRIC FILTER

Item 37.2:

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

Emission Unit: U-00001

Process: 003

Source Classification Code: 5-04-105-30

Process Description:

Mobile Remediation Unit - This process is the thermal desorption of contaminated soils in the primary treatment units followed by thermal oxidation of effluent gases in the secondary treatment units. The treatment units are fueled by No. 2 fuel oil, No. 4 fuel oil, non-residual Waste Oil A, natural gas, or liquid petroleum gas. Each unit is equipped with a baghouse for emissions control. Emissions testing during processing of coal-tar contaminated materials in 1998 demonstrates the ability to operate without the multiple cyclones and meet applicable particulate emission limitations.

Emission Source/Control: 00010 - Combustion
 Design Capacity: 42 million Btu per hour

Emission Source/Control: 00011 - Combustion
 Design Capacity: 42 million Btu per hour

Emission Source/Control: 00012 - Control
 Control Type: MULTIPLE CYCLONE W/O FLY ASH INJECTION

Emission Source/Control: 00013 - Control
 Control Type: FABRIC FILTER

Item 37.3:

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

Emission Unit: U-00001

Process: 004

Source Classification Code: 3-05-020-12

Process Description:

The drying of aggregate and mine tailings in either of the primary treatment units Emission Source 00001 or 00010. Gasses (water vapor & particulates) pass through the respective thermal oxidation (secondary treatment) units without any combustion. Each unit is equipped with an optional multiple cyclone and a baghouse for emissions

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control. Emissions testing during processing of coal-tar contaminated materials in 1998 demonstrates the ability to operate without the multiple cyclones and meet applicable particulate emission limitations.

Emission Source/Control: 00001 - Combustion
Design Capacity: 50 million Btu per hour

Emission Source/Control: 00003 - Combustion
Design Capacity: 40.5 million Btu per hour

Emission Source/Control: 00010 - Combustion
Design Capacity: 42 million Btu per hour

Emission Source/Control: 00011 - Combustion
Design Capacity: 42 million Btu per hour

Emission Source/Control: 00004 - Control
Control Type: MULTIPLE CYCLONE W/O FLY ASH INJECTION

Emission Source/Control: 00005 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 00012 - Control
Control Type: MULTIPLE CYCLONE W/O FLY ASH INJECTION

Emission Source/Control: 00013 - Control
Control Type: FABRIC FILTER

Item 37.4:

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

Emission Unit: U-00002
Process: 002 Source Classification Code: 5-03-008-99

Process Description:
Building exhaust contains fugitive VOC from contaminated media storage, particulate from crushing, screening, and soil handling, and fugitive ammonia from biosolids storage.

Emission Source/Control: 00002 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: 00009 - Control
Control Type: MAT OR PANEL FILTER

Emission Source/Control: 00006 - Process

Emission Source/Control: 00007 - Process

Emission Source/Control: 00008 - Process

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