



# State of New Jersey

Department of Environmental Protection  
Air Quality, Energy and Sustainability  
Division of Air Quality  
Bureau of Stationary Sources

401 E. State Street, 2nd Floor, P.O. Box 420, Mail Code 401-02  
Trenton, NJ 08625-0420

PHILIP D. MURPHY  
Governor

SHEILA Y. OLIVER  
Lt. Governor

CATHERINE R. McCABE  
Commissioner

## Air Pollution Control Preconstruction Permit and Certificate to Operate Construction of a New Source

**Permit Activity Number: PCP190001**

**Program Interest No: 75839**

| Mailing Address  | Plant Location   |
|--|--|
| JOHN GOODWIN<br>OWNERS REPRESENTATIVE<br>SYNAGRO WCWNJ LLC<br>435 WILLIAMS CT - STE 100<br>BALTIMORE, MD 21220 | CUMBERLAND CNTY BIOSOLIDS &<br>ORGANICS RF<br>745 Lebanon Rd<br>Deerfield Twp<br>Cumberland County, New Jersey |

**Approval Date: <NO DATA FOUND>**

**Expiration Date: <NO DATA FOUND>**

The New Jersey Department of Environmental Protection (Department) has reviewed the above referenced air pollution control permit application. On the basis of the information provided, the Department concludes that the application satisfies all applicable requirements of the New Jersey Air Pollution Control regulations codified at N.J.A.C. 7:27 et seq. This permit allows for inspection and evaluation of the equipment by the Department to assure conformance with all provisions of N.J.A.C. 7:27 et seq. and any other applicable federal requirements codified at 40 CFR 52, 60, 61 and 63.

The equipment, that is authorized to be installed and operated under this approval, is described in Section A, Source Operations and Section D, Equipment Inventory. Equipment at the facility referenced by this Permit shall be operated in accordance with the Conditions of Approval set forth in Section D, Facility Specific Requirements.

The Department hereby issues this permit and certificate under the authority of chapter 106, P.L. 1967(N.J.S.A 26:2C-9.2). You may construct, reconstruct, install, or modify the above referenced equipment and/or control apparatus consistent with the approval.

The approved Permit is available for download in PDF format which contains the facility's specific requirements (compliance plan) at: <http://www.nj.gov/dep/aqpp>. After accessing the web site, click on "Approved PCP Permits" listed under "Reports" and then type in your Program Interest (PI) Number, 75839, as instructed on the screen. You will be able to view, print or electronically store your permit. If you have any questions regarding this permit approval, please contact the Department at the Preconstruction Permit Help Line available from 9:00 AM to 4:00 PM daily, where you may speak to someone about any technical questions you may have. The Preconstruction Permit Technical Help Line number is 609-292-6716.

If, in your judgment as an applicant for an air pollution control permit, the Department is imposing any unreasonable Condition of Approval, you may contest the Department's decision and request a contested case hearing pursuant to the Administrative Code at N.J.A.C. 7:27-1.32(a). All requests for contested case hearings must be received in writing by the Department within twenty (20) calendar days of the date you receive this permit approval and must contain the information specified in the Administrative Hearing Request Checklist and Tracking Form.

If you have any non technical questions please use the Bureau's number 609- 292-0834. If you have any questions when filing a General Permit please use the General Permit Help number 609-633-2829.

Approved by:

\_\_\_\_\_  
(Supervisor's name)  
Preconstruction Permits

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# Administrative Hearing Request Checklist and Tracking Form

## I. Document Being Appealed

| Name of the Facility                    | Facility ID Number | Permit Activity Number | Issuance Date |
|---|--------------------|------------------------|---------------|
| CUMBERLAND CNTY BIOSOLIDS & ORGANICS RF | 75839              | PCP190001              |               |

## II. Contact Information

|  |   |
|--|---|
| <b>Name of Person Requesting Hearing</b> | <b>Name of Attorney (if applicable)</b> |
|  |   |
| <b>Address:</b>                          | <b>Address:</b>                         |
|  |   |
|  |   |
| <b>Telephone:</b>                        | <b>Telephone:</b>                       |

## III. Please include the following information as part of your request:

- A. The date the permittee received the permit decision;
- B. Two printed copies of the document being appealed – for submitting to address 1 below;  
A PDF copy of the document being appealed on a CD – for submitting to address 2 below
- C. The legal and factual questions you are appealing;
- D. A statement as to whether or not you raised each legal and factual issues during the permit application process;
- E. Suggested revised or alternative permit conditions;
- F. An estimate of the time required for the hearing;
- G. A request, if necessary, for a barrier-free hearing location for physically disabled persons;
- H. A clear indication of any willingness to negotiate a settlement with the Department prior to the Departments processing of your hearing request to the Office of Administrative Law;

Mail this form, completed, signed and dated with all of the information listed above, including attachment, to:

1. New Jersey Department of Environmental Protection  
Office of Legal Affairs  
Attention: Adjudicatory Hearing Requests  
401 E. State Street, P.O. Box 402  
Trenton, New Jersey 08625
2. Mail Code: 401-02  
New Jersey Department of Environmental Protection  
Air Quality Program  
P.O. Box 420  
Trenton, New Jersey 08625-0420  
Phone: (609) 633-2829

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Date**

## Administrative Hearing Request Checklist and Tracking Form

### IV. If you are not the applicant but rather an interested person claiming to be aggrieved by the permit decision, please include the following information:

1. The date you or your agent received notice of the permit decision (include a copy of that permit decision with your hearing request);
2. Evidence that a copy of the request has been delivered to the applicant for the permit which is the subject of the permit decision;
3. A detailed statement of which findings of fact and/or conclusion of law you are challenging;
4. A description of your participation in any public hearings held in connection with the permit application and copies of any written comments you submitted;
5. Whether you claim a statutory or constitutional right to a hearing, and, if you claim such a right, a reference to the applicable statute or explanation of how your property interests are affected by the permit decision;
6. If the appeal request concerns a CAFRA permit decision, evidence that a copy of the request has been delivered to the clerks of the county and the municipality in which the project which is the subject of the permit decision is located;
7. Suggested revised or alternative permit conditions;
8. An estimate of the time required for the hearing;
9. A request, if necessary, for a barrier-free hearing location for physically disable persons;
10. A clear indication of any willingness to negotiate a settlement with the Department prior to the Department's transmittal of the hearing request to the Office of Administrative Law;

Mail this form, completed, signed and dated with all of the information listed above, including attachment, to:

New Jersey Department of Environmental Protection  
Office of Legal Affairs  
Attention: Adjudicatory Hearing Requests  
401 East State Street, P.O. Box 402  
Trenton, New Jersey 08625-0402

Mail Code: 401-02  
New Jersey Department of Environmental Protection  
Air Quality Program  
P.O. Box 420  
Trenton, New Jersey 08625-0420  
Phone: (609) 633-2829

\_\_\_\_\_  
**Signature**

\_\_\_\_\_  
**Date**

**AIR POLLUTION CONTROL PRECONSTRUCTION PERMIT**

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**Facility ID No.: 75839**

**Permit Activity No.: PCP190001**

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**AIR POLLUTION CONTROL PRECONSTRUCTION PERMIT**

**Section A**

**Facility Name: CUMBERLAND CNTY BIOSOLIDS & ORGANICS RF**

**Facility ID No.: 75839**

**Permit Activity No.: PCP190001**

**AUTHORIZED SOURCE OPERATIONS**

This Preconstruction Permit and the Certificate to Operate for the following equipment is issued pursuant to N.J.A.C. 7:27-8.

**Description of Source Activity**

**Source Operation Type:** Indoor Co-composting Operation

**Source Operation Description:** Indoor biosolids composting building with emissions controlled by a biofilter, one outdoor screener, one compost storage area, and one amendment storage area.

**Source Operation Details:** The sources authorized by this permit shall be operated within the parameters specified in the Equipment, Control Device, and/or Emission Unit/Batch Process Operating Scenario Details of this permit. Operation of the authorized sources within these parameters is required in addition to compliance with the conditions specified in Section D- Facility Specific Requirements.

# AIR POLLUTION CONTROL PRECONSTRUCTION PERMIT

## Section B

**Facility Name: CUMBERLAND CNTY BIOSOLIDS & ORGANICS RF**

**Facility ID No.: 75839**

**Permit Activity No.: PCP190001**

### ACRONYMS

|                 |   |
|-----------------|---|
| CEMS            | Continuous Emissions Monitor System   |
| CFR             | Code of Federal Regulations   |
| CO              | Carbon Monoxide   |
| COMS            | Continuous Opacity Monitor System   |
| EPA             | United States Environmental Protection Agency   |
| EMS             | Emission Measurement Section - NJDEP  |
| HAP             | Hazardous Air Pollutant   |
| N.J.A.C.        | New Jersey Administrative Code  |
| NJDEP           | New Jersey Department of Environmental Protection   |
| NOx             | Oxides of Nitrogen  |
| PM-2.5          | All particulate matter having an aerodynamic diameter less than or equal to a nominal 2.5 microns |
| PM-10           | All particulate matter having an aerodynamic diameter less than or equal to a nominal 10 microns  |
| PST             | Performance Specification Test  |
| REO             | Regional Enforcement Office - NJDEP   |
| SO <sub>2</sub> | Sulfur Dioxide  |
| TSP             | Total Suspended Particulate Matter  |
| VOC             | Volatile Organic Compounds  |

# AIR POLLUTION CONTROL PRECONSTRUCTION PERMIT

## Section C

**Facility Name: CUMBERLAND CNTY BIOSOLIDS & ORGANICS RF**

**Facility ID No.: 75839**

**Permit Activity No.: PCP190001**

### GENERAL PROVISIONS AND AUTHORITIES Preconstruction Permits

1. Notwithstanding compliance with other provisions of N.J.A.C. 7:27-1 et seq., no person shall cause, suffer, allow or permit to be emitted into the outdoor atmosphere substances in quantities which shall result in air pollution as defined at N.J.A.C. 7:27-5.1. [N.J.A.C. 7:27-5.2(a)]
2. The permittee shall not construct, reconstruct, install, or modify a significant source or control apparatus serving the significant source without first obtaining a preconstruction permit under N.J.A.C. 7:27-8. [N.J.A.C. 7:27-8.3(a)]
3. The permittee shall not operate (nor cause to be operated) a significant source or control apparatus serving the significant source without a valid operating certificate. [N.J.A.C. 7:27-8.3(b)]

4. Permit Revisions:

The permittee shall not take any action which requires a permit revision, compliance plan change, seven-day-notice change, amendment, or change to a batch plant permit, under any applicable provision at N.J.A.C. 7:27-8.17 through 8.23, without complying with that applicable provision.

The following summarize N.J.A.C. 7:27-8.18 through 8.21:

- a. The permittee shall file a permit revision request and receive approval from the Department prior to increasing any maximum allowable emission limit, increasing actual emissions, to a rate or concentration greater than a maximum allowable emission, causing the emissions of a new air contaminant, use a new raw material, reconstructing equipment, change the ground level concentration of an air contaminant in an area where the public has access, replace the permitted source, or constructing or installing a new significant source. [N.J.A.C. 7:27-8.18]
- b. The permittee shall file a compliance plan change request and receive approval from the Department prior to decreasing the frequency of testing, monitoring, recordkeeping, or reporting, changing the monitoring method, changing a level, rate, or limit of an operational parameter included in the conditions, or reducing a source's potential to emit. [N.J.A.C. 7:27-8.19]
- c. At least seven days prior to proceeding with a physical or operational change that is outside the scope of activities allowed by this permit, but will not increase emissions over the allowable emissions and will not alter the stack characteristics, the permittee shall file a seven-day-notice change. The permittee



may proceed with the proposed changes seven days after such notice is filed with the Department. [N.J.A.C. 7:27-8.20]

- d. The permittee shall file an amendment within 120 days of making any change of the information which allows the Department to identify and contact the permittee, changing the name, number or designation of any equipment or stack covered by this permit, changing the parameters of a stack in such a way to reduce the ground level concentration of an air contaminant, or correction of a typographical error that will not result in an increase of actual or allowable emissions. [N.J.A.C. 7:27-8.21]

The permittee shall review the provisions of N.J.A.C. 7:27-8.18 through 7:27-8.21 to determine the appropriate type of request to file.

5. The permittee shall make the preconstruction permit or certificate, together with any amendments, seven-day-notices, or other documents related to the permit and certificate, readily available for Department inspection on the operating premises. [N.J.A.C. 7:27-8.3(d)]
6. The permittee shall not use or cause to be used the equipment or control apparatus unless all components connected or attached to, or serving, the equipment or control apparatus, are functioning properly and are in compliance with the preconstruction permit and certificate and all conditions and provisions thereto. [N.J.A.C. 7:27-8.3(e)]
7. A preconstruction permit is not transferable either from the location authorized in the preconstruction permit to another location, or from any one piece of control apparatus or equipment to another piece of control apparatus or equipment. [N.J.A.C. 7:27-8.3(f)]
8. Once a permit or certificate is issued, the permittee is fully responsible for compliance with N.J.A.C. 7:27-8 and with the permit and certificate, including adequate design, construction, and operation of the source, even if employees, contractors, or others work on or operate the permitted source. If the Department issues any other requirement with the force of law, such as an order, which applies to the source, the permittee is also responsible for compliance with that requirement. [N.J.A.C. 7:27-8.3(g)]
9. Preconstruction permits and certificates do not any way relieve the permittee from the obligation to obtain necessary permits from other government agencies and to comply with all other applicable Federal, State, and local rules and regulations. [N.J.A.C. 7:27-8.3(h)]
10. The permittee shall not suffer, allow, or permit any air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in such quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or would unreasonably interfere with the enjoyment of life or property. This shall not include an air contaminant which occurs only in areas over which the permittee has exclusive use or occupancy. In determining whether an odor unreasonably interferes with the enjoyment of life or property, the Department shall consider all of the relevant facts and circumstances, including, but not limited to, the character, severity, frequency, and duration of the odor, and the number of persons affected thereby. In considering these and other relevant facts and circumstances, no one factor shall be dispositive, but each shall be considered relevant in determining whether an odor interferes with the enjoyment of life or property, and, if so, whether such interference is unreasonable considering all of the circumstances. [N.J.A.C.7:27-8.3(j)]

11. The Department and its representatives have the right to enter and inspect any facility or property in accordance with N.J.A.C. 7:27-1.31. [N.J.A.C. 7:27-8.3(m)]
12. There shall be an affirmative defense to liability for penalties for a violation of a preconstruction permit or certificate occurring as a result of an equipment malfunction, an equipment start-up, an equipment shutdown, or during the performance of necessary maintenance. The affirmative defense shall be asserted and established as required pursuant to P.L. 1993. c.89 (adding N.J.S.A. 26:2C-19.1 through 2C-19.5) and any rules the Department promulgates thereunder, and shall meet all of the requirements thereof. There shall also be an affirmative defense to liabilities for penalties or other sanctions for noncompliance with any technology based emission limitation in this permit or certificate, if the noncompliance was due to an emergency as defined at N.J.A.C. 7:27-22.1, provided that the affirmative defense is asserted and established in compliance with 40 CFR 70.6(g) and meets all requirements thereof. [N.J.A.C. 7:27-8.3(n)]
13. The permittee shall not cause or use the equipment specified in a preconstruction permit in a manner that will result in the emission of any air contaminant not listed in the Facility Specific Requirements in this Preconstruction Permit at a rate equal to or higher than the applicable reporting threshold in Table A in N.J.A.C. 7:27-8 Appendix 1 or 7:27-17.9(a). [N.J.A.C. 7:27-8.4(k)1]
14. No air contaminant, or category of air contaminant, where accepted by the Department, shall be emitted other than those approved in the preconstruction permit. [N.J.A.C. 7:27-8.13(a)]
15. Any person to whom the Department has issued a preconstruction permit or certificate shall comply with all terms and conditions of any order related to the preconstruction permit or certificate. [N.J.A.C. 7:27-8.13(a)]
16. The permittee shall maintain all records required in the preconstruction permit for a period of five (5) calendar years from the calendar year within which the record was generated. [N.J.A.C. 7:27-8.13(a)]
17. The Department may change the conditions of approval of any approved certificate to operate at the time of renewal of a temporary operating certificate; at the time of approval or renewal of a five-year operating certificate; or at any time during the period a certificate is in effect, if the Department determines that such change is necessary to protect human health or welfare or the environment. [N.J.A.C. 7:27-8.13(b)]
18. Upon request of the Department, the permittee shall submit to the Department information relevant to the operation of equipment and control apparatus including all information specified at N.J.A.C. 7:27-8.13(c). [N.J.A.C. 7:27-8.13(c)]
19. If the conditions of a preconstruction permit or certificate to operate require the Department to incur any of the following charges, the permittee shall reimburse the Department for the full amount of these charges: (1) The charges billed by any phone company for the maintenance of a dedicated telephone line required by this permit or the certificate to operate for the electronic transmission of data; or (2) The charges billed by any laboratory for performing the analysis of audit samples collected pursuant to testing or monitoring required by this permit or the certificate to operate. [N.J.A.C. 7:27-8.13(g)]
20. Any exceedance of the operating requirements or emission concentrations specified in a preconstruction permit shall be reported within three (3) business days, by writing to the Regional Enforcement Office. [N.J.A.C. 7:27-8.13(h)]

21. The permittee shall, when requested by the Department, provide such testing facilities exclusive of instrumentation and sensing devices as may be necessary for the Department to determine the kind and amount of air contaminants emitted from the equipment or control apparatus. The testing facilities shall include the utilities, the structure to hold testing equipment and/or personnel, and any ports in stacks needed to carry out testing required by this permit. During testing by the Department, the equipment and control apparatus shall be operated under such conditions within their capacities as may be requested by the Department. The test facilities may be either permanent or temporary, at the discretion of the person responsible for their provision, and shall conform to all applicable laws, regulations, and rules concerning safe construction and safe practice. Testing facilities, which contain platforms and other means of personnel access, shall conform to OSHA standards. [N.J.A.C. 7:27-8.13(i)]
22. Upon request of the Department, the permittee shall submit to the Department any record relevant to any permit or certificate. Such records shall be submitted to the Department within thirty (30) days of the request by the Department or within a longer time period if approved in writing by the Department. [N.J.A.C. 7:27-8.15(a)]
23. The permittee shall submit any required report in a format and on a schedule approved by the Department. Such report shall be transmitted on paper, on computer disk, or electronically, at the discretion of the Department. [N.J.A.C. 7:27-8.15(b)]
24. Any report submitted to the Department, including but not limited to, a report submitted as an amendment of this permit or the certificate to operate pursuant to N.J.A.C. 7:27-8.3(c) shall include, as an integral part of the report, certifications complying with N.J.A.C. 7:27-1.39. [N.J.A.C. 7:27-8.15(c)]
25. Upon request of the Department, the permittee shall report on forms obtained from the Department the air contaminant actual emissions and information relevant thereto, of any air contaminant or category of air contaminant emitted by the equipment, control apparatus, or source operation. [N.J.A.C. 7:27-8.15(d)]
26. This listing of requirements reflects the state rules and regulations that apply to a majority of sources. If a specific requirement in a rule or regulation that applies to a permittee is not included in this section or in the Facility Specific Requirements it does not relieve the permittee from the obligation to comply with that regulation.
27. Process monitors must be operated at all times when the associated process equipment is operating except during outage time allowed by Department guidelines/procedures or as outlined in Technical Manual 1005. The Permittee must keep a service log as required.
28. Each permittee shall meet all requirements of the approved source emissions testing and monitoring protocol during the term of the operating permit. Whenever the facility 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 facility must recertify the CEMS or COMS in accordance with Section V.B. and Appendix E of Technical Manual 1005. The facility is responsible for contacting the Emission Measurement Section to determine the need for recertification and/or to initiate the recertification process. The facility is responsible for any downtime associated with the replacement, modification, change or repair of the CEMS or COMS. [N.J.A.C. 7:27-8.13(d)]

29. The following Department offices may be referenced in a preconstruction permit. Please use the following addresses when submitting any correspondence to these offices:

Emission Measurement Section  
Mail Code: 09-01, P.O. Box 420  
Trenton, NJ 08625-0420

Central Regional Enforcement Office  
P. O. Box 407  
Trenton, NJ 08625-0407

Northern Regional Enforcement Office  
7 Ridgedale Avenue  
Cedar Knolls, NJ 07927

Southern Regional Enforcement Office  
2 Riverside Drive – Suite 201  
Camden, NJ 08102

30. In accordance with the Air Pollution Control Act at N.J.S.A. 26:2C-19(e), any operation of the equipment which may cause off-property effect, including odors, shall be immediately reported by calling the NJDEP Environmental Action Hotline at (877) 927-6337.
31. In accordance with N.J.A.C. 7:27-21, facilities are required to submit annual emission statements of their actual emissions if the Potential-to-emit for the entire facility exceeds the following thresholds (including all emissions from the facility, both permitted and unpermitted). Additional information about Emission Statement reports can be obtained by calling (609) 984-5483.

| <b>AIR CONTAMINANT</b>                               | <b>Threshold in Tons per Year</b> |
|--|-----------------------------------|
| VOC (Volatile Organic Compounds)                     | 10                                |
| NO <sub>x</sub> (Oxides of Nitrogen)                 | 25                                |
| CO (Carbon Monoxide)                                 | 100                               |
| SO <sub>2</sub> (Sulfur Dioxide)                     | 100                               |
| TSP (Total Suspended Particulates)                   | 100                               |
| PM <sub>2.5</sub> (Particulate Matter ≤ 2.5 microns) | 100                               |
| PM <sub>10</sub> (Particulate Matter ≤ 10 microns)   | 100                               |
| NH <sub>3</sub> (Ammonia)                            | 100                               |
| Lead   | 5                                 |

32. In accordance with N.J.A.C. 7:27-22, facilities are required to submit a Title V Operating Permit application, within one year, if the potential-to-emit for the entire facility exceeds any of the following thresholds (including all emissions from the facility, both permitted and unpermitted). Additional Information about Operating Permits can be obtained by calling the Operating Permit Hotline at (609) 633-8248.

| <b>AIR CONTAMINANT</b>                             | <b>Threshold in Tons per Year</b> |
|--|-----------------------------------|
| VOC (Volatile Organic Compounds)                   | 25                                |
| NO <sub>x</sub> (Oxides of Nitrogen)               | 25                                |
| CO (Carbon Monoxide)                               | 100                               |
| SO <sub>2</sub> (Sulfur Dioxide)                   | 100                               |
| TSP (Total Suspended Particulates)                 | 100                               |
| PM <sub>10</sub> (Particulate Matter ≤ 10 microns) | 100                               |
| Lead   | 10                                |
| Any HAP (Hazardous Air Pollutant)                  | 10                                |
| All HAPs Collectively                              | 25                                |
| Any other Air Contaminant                          | 100                               |

33. In accordance with N.J.A.C. 7:27-8.13(e), facilities are subject to 4 billable compliance inspections over the life of the Operating Certificate. Facilities will be invoiced for a service fee per inspection pursuant to N.J.A.C. 7:27-8.6 after the periodic compliance inspection is conducted.

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**AIR POLLUTION CONTROL PRECONSTRUCTION PERMIT**

**Section D**

**Facility Name: CUMBERLAND CNTY BIOSOLIDS & ORGANICS RF**  
**Facility ID No.: 75839**  
**Permit Activity No.: PCP190001**

**PERMIT INFORMATION**

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FACILITY SPECIFIC REQUIREMENTS

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EMISSION POINT INVENTORY

EMISSION UNIT/BATCH PROCESS INVENTORY

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**AIR POLLUTION CONTROL PRECONSTRUCTION PERMIT**

**Section D**

**Facility Name: CUMBERLAND CNTY BIOSOLIDS & ORGANICS RF**

**Facility ID No.: 75839**

**Permit Activity No.: PCP190001**

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PCP190001

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

**Emission Unit:** U1 Compost Process including material receiving, handling and storage

**Subject Item:** CD1 Biofilter

| Ref.# | Applicable Requirement   | Monitoring Requirement   | Recordkeeping Requirement  | Submittal/Action Requirement |
|-------|--|--|--|------------------------------|
| 1     | Bed Operating Temperature $\geq$ 50 and Bed Operating Temperature $\leq$ 115 degrees F. [N.J.A.C. 7:27- 8.13(a)] | Bed Operating Temperature: Monitored by temperature instrument daily, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27- 8.13(d)2ii]                                      | Bed Operating Temperature: Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [N.J.A.C. 7:27- 8.13(d)3]             | None.                        |
| 2     | Bed Operating pH $\geq$ 5 and Bed Operating pH $\leq$ 9 standard units. [N.J.A.C. 7:27- 8.13(a)]                 | Bed Operating pH: Monitored by pH instrument each week during operation, based on an instantaneous determination from a representative grab sample. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27- 8.13(d)2ii] | Bed Operating pH: Recordkeeping by manual logging of parameter or storing data in a computer data system each week during operation. [N.J.A.C. 7:27- 8.13(d)3] | None.                        |
| 3     | Pressure Drop $\geq$ 1 and Pressure Drop $\leq$ 8 inches w.c.. [N.J.A.C. 7:27- 8.13(a)]                          | Pressure Drop: Monitored by pressure drop instrument daily, based on an instantaneous determination. The permittee shall install, calibrate and maintain the monitor(s) in accordance with the manufacturer's specifications. The monitor(s) shall be ranged such that the allowable value is approximately mid-scale of the full range current/voltage output. [N.J.A.C. 7:27- 8.13(d)2ii]  | Pressure Drop: Recordkeeping by manual logging of parameter or storing data in a computer data system daily. [N.J.A.C. 7:27- 8.13(d)3]                         | None.                        |
| 4     | Bed Moisture $\geq$ 80 %. [N.J.A.C. 7:27- 8.13(a)]   | Bed Moisture: Monitored by grab sampling each week during operation, based on an instantaneous determination. [N.J.A.C. 7:27- 8.13(d)2ii]  | Bed Moisture: Recordkeeping by manual logging of parameter each week during operation. [N.J.A.C. 7:27- 8.13(d)3]   | None.                        |



PCP190001

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

| Ref.# | Applicable Requirement   | Monitoring Requirement  | Recordkeeping Requirement   | Submittal/Action Requirement |
|-------|--|---|---|------------------------------|
| 5     | <p>The biofilter shall be operated at all times that materials are being processed in the indoor composting facility. A negative pressure shall be maintained in each area in the indoor composting facility to prevent potential fugitive emissions.</p> <p>All doors to the indoor composting facility and other other natural draft openings that have the potential to affect negative pressure in the building shall remain closed except during times of incoming or outgoing material shipments. [N.J.A.C. 7:27- 8.13(a)]</p> | <p>Other: Exceedance of any biofilter operating parameter or failure of the biofilter shall be immediately investigated and corrected. Corrective actions shall involve partial or total replacement of biofilter media, pH and/or moisture adjustment of the media or other action which would result in the proper operation of the biofilter. In the case where the biofilter fails to operate and the Permittee fails to correct the problem within three (3) days, the Permittee shall take the following steps:</p> <ul style="list-style-type: none"> <li>a) remove readily identifiable odorous materials;</li> <li>b) remove all existing precompost feed stock to be disposed of through an alternative method;</li> <li>c) remove the active compost piles to be disposed of through an alternative method; [N.J.A.C. 7:27- 8.13(a)].</li> </ul> | <p>Recordkeeping by manual logging of parameter or storing data in a computer data system upon occurrence of event. Records shall be maintained, for at least five years from the date of each, investigation, testing, and corrective action taken. [N.J.A.C. 7:27- 8.13(d)]</p> | <p>None.</p>                 |
| 6     | <p>Minimum VOC Destruction and Removal Efficiency &gt;= 90 %. [N.J.A.C. 7:27- 8.13(a)]</p>   | <p>None.</p>  | <p>Other: Maintain Manufacturer specifications on site.[N.J.A.C. 7:27- 8.13(d)].</p>  | <p>None.</p>                 |

PCP190001

New Jersey Department of Environmental Protection  
 Facility Specific Requirements

Emission Unit: U1 Compost Process including material receiving, handling and storage

Operating Scenario: OS Summary

| Ref.# | Applicable Requirement   | Monitoring Requirement   | Recordkeeping Requirement | Submittal/Action Requirement   |
|-------|--|--|---------------------------|--|
| 1     | TSP <= 5.71 tons/yr. [N.J.A.C. 7:27-8.13(h)]   | None.  | None.                     | None.  |
| 2     | PM-10 (Total) <= 5.7 tons/yr. [N.J.A.C. 7:27- 8.13(h)]   | None.  | None.                     | None.  |
| 3     | PM-2.5 (Total) <= 5.7 tons/yr. [N.J.A.C. 7:27- 8.13(h)]  | None.  | None.                     | None.  |
| 4     | VOC (Total) <= 4.41 tons/yr. [N.J.A.C. 7:27- 8.13(h)]  | None.  | None.                     | None.  |
| 5     | Ammonia <= 3.83 tons/yr. [N.J.A.C. 7:27-8.13(h)]   | None.  | None.                     | None.  |
| 6     | No visible emissions except for 3 minutes in any consecutive 30 minute period.[N.J.A.C. 7:27- 8.13(a)]   | None.  | None.                     | None.  |
| 7     | No person shall cause, suffer, allow or permit to be emitted into the outdoor atmosphere of one or more air contaminants in such quantities and duration as are, or tend to be, injurious to human health or welfare, animal or plant life or property, or would unreasonably interfere with the enjoyment of life or property throughout the State and in such territories of the State as shall be affected thereby and excludes all aspects of employer-employee relationship as to health and safety hazards. [N.J.A.C. 7:27- 5.2] | Other: If requested by the Department, and based on the detection and verification of odors emanating from the product storage area at the nearest offsite receptor, or based on the detection of other air contaminant emissions from this area, the Permittee shall control emissions from the product storage piles. Control measures may include, but are not limited to to comply with N.J.A.C. 7:27-5.2(a).[N.J.A.C. 7:27- 8.13(a)]. | None.                     | Comply with rule/regulation: Upon occurrence of event. Implement control measures as applicable based on the source of the odors or other air contaminants that may include, but are not limited to: covering or enclosing the storage piles and venting all air emissions to a properly designed control device. [N.J.A.C. 7:27- 8.13(a)] |

PCP190001

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

**Emission Unit:** U1 Compost Process including material receiving, handling and storage

**Operating Scenario:** OS1 Composting

| Ref.# | Applicable Requirement   | Monitoring Requirement   | Recordkeeping Requirement   | Submittal/Action Requirement |
|-------|--|--|---|------------------------------|
| 1     | Maximum Waste Feed Rate <= 70 dry tons/day (at 30% solids). Each delivery of biosolids sludge shall be sampled and the biosolids sludge solids content determined. [N.J.A.C. 7:27- 8.13(a)]    | Maximum Waste Feed Rate: Monitored by gravimetric monitoring daily, based on a 1 month average. [N.J.A.C. 7:27- 8.13(d)]                 | Maximum Waste Feed Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system once per calendar day during operation. The Permittee shall record the date, the tonnage in wet tons, the percent moisture and the tonnage in dry tons for each delivery. [N.J.A.C. 7:27- 8.13(d)]        | None.                        |
| 2     | Maximum Waste Feed Rate <= 25,550 dry tons/yr (at 30% solids). Each delivery of biosolids sludge shall be sampled and the biosolids sludge solids content determined. [N.J.A.C. 7:27- 8.13(a)] | Maximum Waste Feed Rate: Monitored by gravimetric monitoring daily, based on a monthly volume-weighted average. [N.J.A.C. 7:27- 8.13(d)] | Maximum Waste Feed Rate: Recordkeeping by manual logging of parameter or storing data in a computer data system each month during operation. The Permittee shall record the date, the tonnage in wet tons, the percent moisture and the tonnage in dry tons for each delivery, and annual total. [N.J.A.C. 7:27- 8.13(d)] | None.                        |
| 3     | VOC (Total) <= 1.17 lb/hr maximum hourly emissions. [N.J.A.C. 7:27- 8.13(h)]   | None.  | None.   | None.                        |
| 4     | Ammonia <= 1.02 lb/hr. [N.J.A.C. 7:27- 8.13(h)]  | None.  | None.   | None.                        |

PCP190001

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

**Emission Unit:** U1 Compost Process including material receiving, handling and storage

**Operating Scenario:** OS3 Material screening on trommel screen

| Ref.# | Applicable Requirement                                 | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1     | TSP <= 1.25 lb/hr. [N.J.A.C. 7:27- 8.13(h)]            | None.                  | None.                     | None.                        |
| 2     | PM-10 (Total) <= 1.25 lb/hr. [N.J.A.C. 7:27- 8.13(h)]  | None.                  | None.                     | None.                        |
| 3     | PM-2.5 (Total) <= 1.25 lb/hr. [N.J.A.C. 7:27- 8.13(h)] | None.                  | None.                     | None.                        |

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PCP190001

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

**Emission Unit:** U1 Compost Process including material receiving, handling and storage

**Operating Scenario:** OS4 Conveyors on trommel screen

| Ref.# | Applicable Requirement                                | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|---|------------------------|---------------------------|------------------------------|
| 1     | TSP <= 0.6 lb/hr. [N.J.A.C. 7:27- 8.13(h)]            | None.                  | None.                     | None.                        |
| 2     | PM-10 (Total) <= 0.6 lb/hr. [N.J.A.C. 7:27- 8.13(h)]  | None.                  | None.                     | None.                        |
| 3     | PM-2.5 (Total) <= 0.6 lb/hr. [N.J.A.C. 7:27- 8.13(h)] | None.                  | None.                     | None.                        |

PCP190001

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

**Emission Unit:** U1 Compost Process including material receiving, handling and storage

**Operating Scenario:** OS5 Compost Amendments  
Storage and Handling

| Ref.# | Applicable Requirement                                       | Monitoring Requirement   | Recordkeeping Requirement   | Submittal/Action Requirement |
|-------|--|--|---|------------------------------|
| 1     | TSP <= 0.5 lb/hr. [N.J.A.C. 7:27- 8.13(h)]                   | None.  | None.   | None.                        |
| 2     | PM-10 (Total) <= 0.5 lb/hr. [N.J.A.C. 7:27- 8.13(h)]         | None.  | None.   | None.                        |
| 3     | PM-2.5 (Total) <= 0.5 lb/hr. [N.J.A.C. 7:27- 8.13(h)]        | None.  | None.   | None.                        |
| 4     | Total Throughput <= 37,500 tons/yr. [N.J.A.C. 7:27- 8.13(h)] | Total Throughput: Monitored by gravimetric monitoring per delivery, based on a consecutive 12 month period (rolling 1 month basis). [N.J.A.C. 7:27- 8.13(d)] | Total Throughput: Recordkeeping by manual logging of parameter or storing data in a computer data system per delivery. [N.J.A.C. 7:27- 8.13(d)] | None.                        |

PCP190001

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

**Emission Unit:** U1 Compost Process including material receiving, handling and storage  
**Operating Scenario:** OS6 Compost Storage and Handling

| Ref.# | Applicable Requirement                                 | Monitoring Requirement | Recordkeeping Requirement | Submittal/Action Requirement |
|-------|--|------------------------|---------------------------|------------------------------|
| 1     | TSP <= 0.62 lb/hr. [N.J.A.C. 7:27- 8.13(h)]            | None.                  | None.                     | None.                        |
| 2     | PM-10 (Total) <= 0.62 lb/hr. [N.J.A.C. 7:27- 8.13(h)]  | None.                  | None.                     | None.                        |
| 3     | PM-2.5 (Total) <= 0.61 lb/hr. [N.J.A.C. 7:27- 8.13(h)] | None.                  | None.                     | None.                        |

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

**Permit Being Modified**

**Permit Class:**                      **Number:** 0

**Description**                      Construction of a biosolids and organics recycling facility in Deerfield Township,  
**of Modifications:** Cumberland County.

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New Jersey Department of Environmental Protection  
Facility Profile (General)

**Facility Name (AIMS):** Cumberland Cnty Biosolids & Organics Recy

**Facility ID (AIMS):** 75839

**Street** LEBANON RD  
**Address:** BLOCK 76 LOT 3  
DEERFIELD TWP , NJ 08332

**Mailing** 435 WILLIAMS CT STE 100  
**Address:** BALTIMORE, MD 21220

**County:** Cumberland

**Location** NJ Route 55 is located approximately 1.5  
**Description:** miles east of the site and is the major freeway  
in the area. The site is accessed via Lebanon  
Road

|                                 |               |
|---------------------------------|---------------|
| <b>State Plane Coordinates:</b> |               |
| <b>X-Coordinate:</b>            | 320,774       |
| <b>Y-Coordinate:</b>            | 228,009       |
| <b>Units:</b>                   | Feet          |
| <b>Datum:</b>                   | NAD83         |
| <b>Source Org.:</b>             | Other/Unknown |
| <b>Source Type:</b>             |               |

|                       |        |
|-----------------------|--------|
| <b>Industry:</b>      |        |
| <b>Primary SIC:</b>   |        |
| <b>Secondary SIC:</b> |        |
| <b>NAICS:</b>         | 325314 |

New Jersey Department of Environmental Protection  
Facility Profile (General)

**Contact Type: Air Permit Information Contact**

**Organization:** Synagro-WCWNJ, LLC

**Org. Type:** Corporation

**Name:** Bala Vairavan

**NJ EIN:**

**Title:** Senior Project Engineer

**Phone:** (443) 489-9186 x

**Mailing Address:** 435 Williams Court, Suite 100  
Baltimore, MD 21220

**Fax:** ( ) - x

**Other:** ( ) - x

**Type:**

**Email:** bvairavan@synagro.com

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**Contact Type: Consultant**

**Organization:** T & M Associates

**Org. Type:** Corporation

**Name:** Donald Pinto

**NJ EIN:**

**Title:** Vice President

**Phone:** (614) 339-3380 x

**Mailing Address:** 4675 Lakehurst Court, Suite 200  
Columbus, OH 43016

**Fax:** ( ) - x

**Other:** ( ) - x

**Type:**

**Email:** dpinto@tandmassociates.com

---

**Contact Type: Fees/Billing Contact**

**Organization:** Synagro-WCWNJ, LLC

**Org. Type:** Corporation

**Name:** Bala Vairavan

**NJ EIN:**

**Title:** Senior Project Engineer

**Phone:** (443) 489-9186 x

**Mailing Address:** 435 Williams Court, Suite 100  
Baltimore, MD 21220

**Fax:** ( ) - x

**Other:** ( ) - x

**Type:**

**Email:** bvairavan@synagro.com

New Jersey Department of Environmental Protection  
Facility Profile (General)

**Contact Type: General Contact**

**Organization:** Synagro-WCWNJ, LLC

**Org. Type:** Corporation

**Name:** Bala Vairavan

**NJ EIN:**

**Title:** Senior Project Engineer

**Phone:** (443) 489-9186 x

**Mailing Address:** 435 Williams Court, Suite 100  
Baltimore, MD 21220

**Fax:** ( ) - x

**Other:** ( ) - x

**Type:**

**Email:** bvairavan@synagro.com

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**Contact Type: Operator**

**Organization:** Synagro-WCWNJ, LLC

**Org. Type:** Corporation

**Name:** Synagro-WCWNJ, LLC

**NJ EIN:**

**Title:**

**Phone:** ( ) - x

**Mailing Address:** 435 Williams Court, Suite 100  
Baltimore, MD 21220

**Fax:** ( ) - x

**Other:** ( ) - x

**Type:**

**Email:**

---

**Contact Type: Owner (Current Primary)**

**Organization:** Synagro-WCWNJ, LLC

**Org. Type:** Corporation

**Name:** Synagro-WCWNJ, LLC

**NJ EIN:**

**Title:**

**Phone:** ( ) - x

**Mailing Address:** 435 Williams Court, Suite 100  
Baltimore, MD 21220

**Fax:** ( ) - x

**Other:** ( ) - x

**Type:**

**Email:**

New Jersey Department of Environmental Protection  
Facility Profile (General)

**Contact Type:** Responsible Official

**Organization:** Synagro-WCWNJ, LLC

**Name:** John Goodwin

**Title:** Senior Vice President

**Phone:** (443) 489-9069 x

**Fax:** ( ) - x

**Other:** ( ) - x

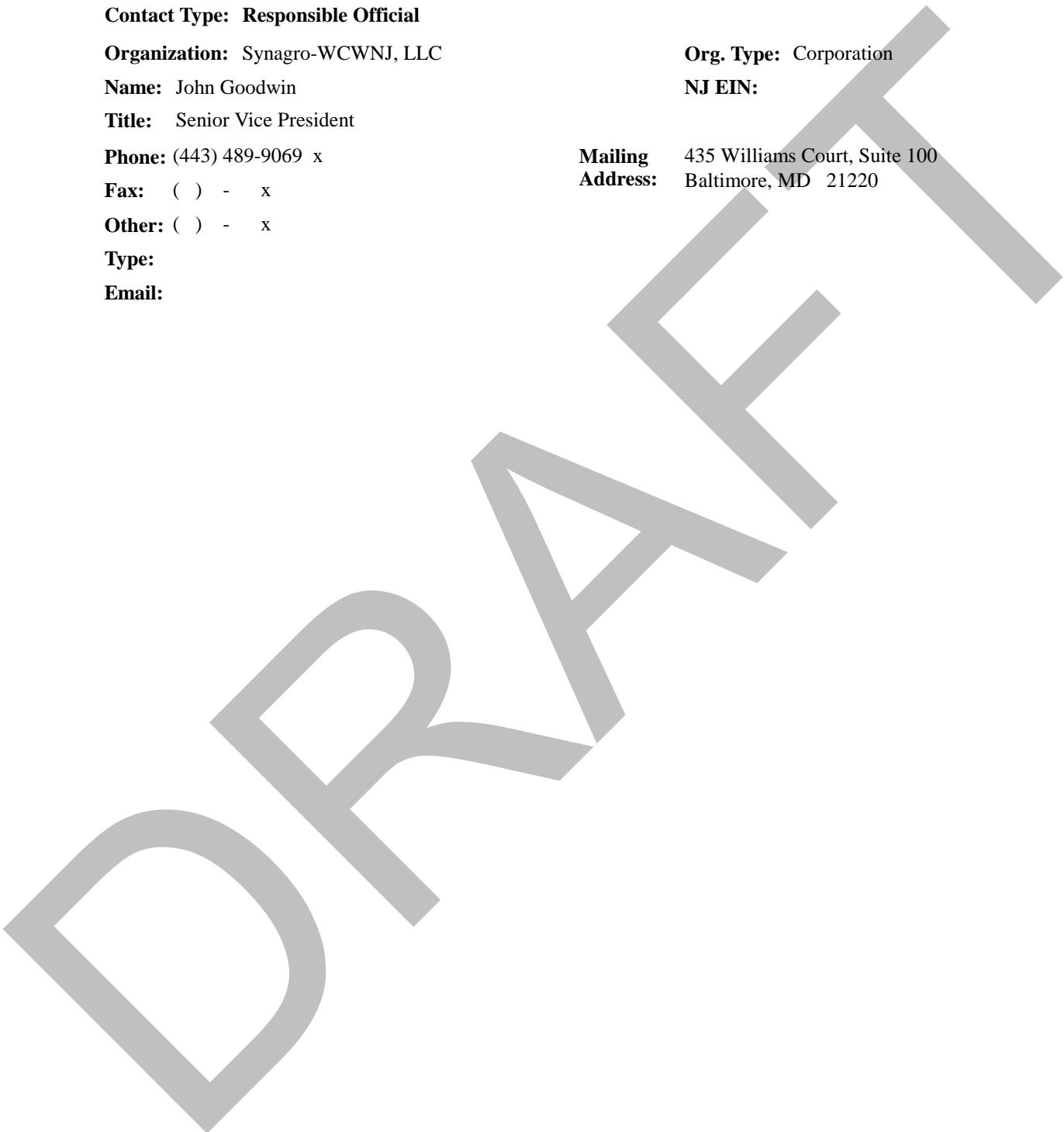
**Type:**

**Email:**

**Org. Type:** Corporation

**NJ EIN:**

**Mailing Address:** 435 Williams Court, Suite 100  
Baltimore, MD 21220

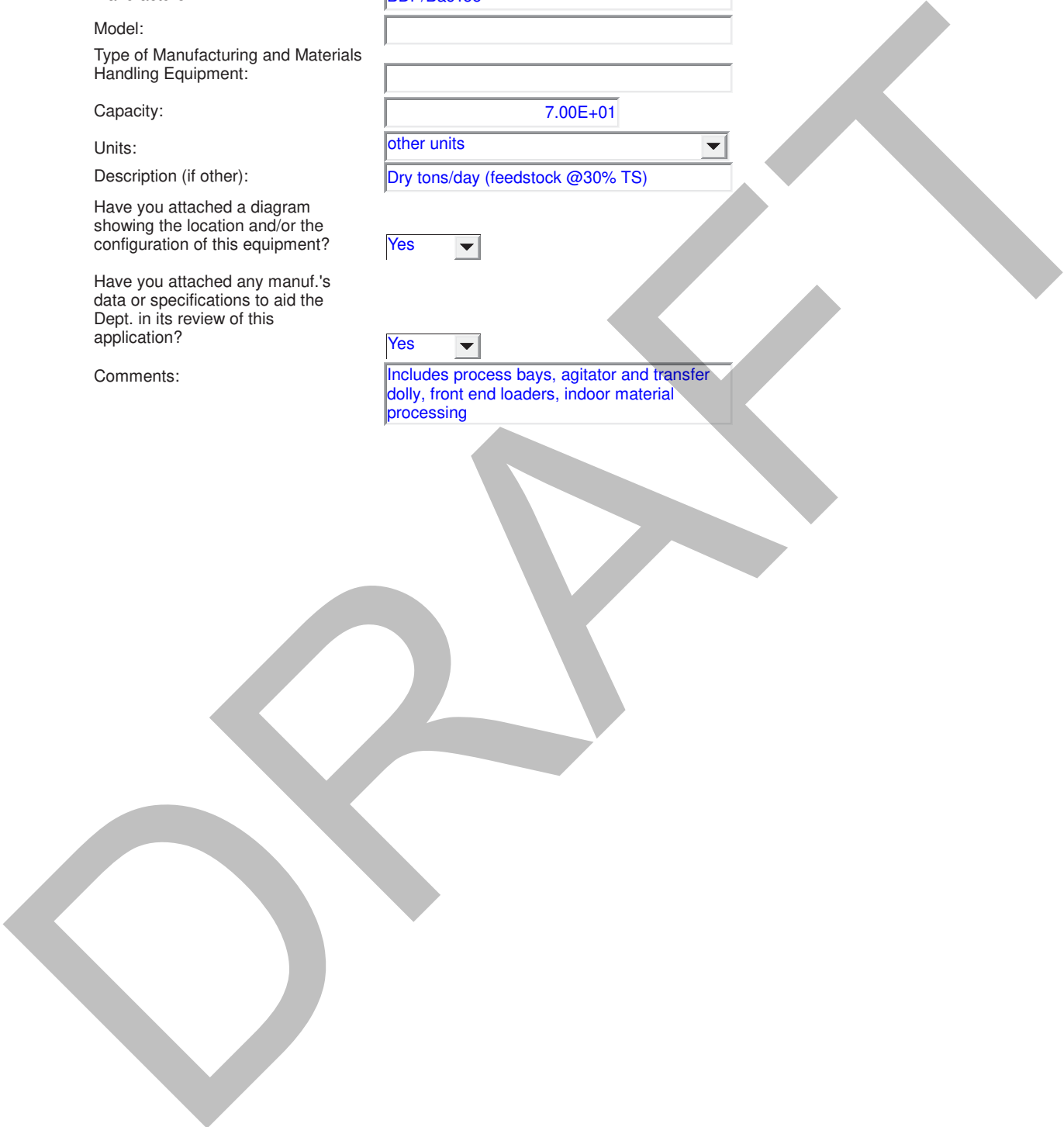


New Jersey Department of Environmental Protection  
Equipment Inventory

| Equip. NJID | Facility's Designation | Equipment Description                        | Equipment Type                                 | Certificate Number | Install Date | Grand-Fathered | Last Mod. (Since 1968) | Equip. Set ID |
|-------------|------------------------|--|--|--------------------|--------------|----------------|------------------------|---------------|
| E1          | Comp_Equip             | Compost process indoor equipment             | Manufacturing and Materials Handling Equipment |                    |              | No             |                        |               |
| E3          | Screen                 | Tommel screen - Product Screen               | Manufacturing and Materials Handling Equipment |                    |              | No             |                        |               |
| E4          | Amm_Storage            | Amendments storage pad and material handling | Manufacturing and Materials Handling Equipment |                    |              | No             |                        |               |
| E5          | Comp_Storage           | Compost storage pad and material Handling    | Manufacturing and Materials Handling Equipment |                    |              | No             |                        |               |

75839 CUMBERLAND CNTY BIOSOLIDS\_ORGANICS RF PCP190001 E1 (Manufacturing and Materials Handling Equipment)

|   |  |
|---|--|
| Make:   | <input type="text"/>   |
| Manufacturer:   | <input type="text" value="BDP/BacTee"/>  |
| Model:  | <input type="text"/>   |
| Type of Manufacturing and Materials Handling Equipment:   | <input type="text"/>   |
| Capacity:   | <input type="text" value="7.00E+01"/>  |
| Units:  | <input type="text" value="other units"/>   |
| Description (if other):   | <input type="text" value="Dry tons/day (feedstock @30% TS)"/>  |
| Have you attached a diagram showing the location and/or the configuration of this equipment?              | <input type="text" value="Yes"/>   |
| Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? | <input type="text" value="Yes"/>   |
| Comments:   | <input type="text" value="Includes process bays, agitator and transfer dolly, front end loaders, indoor material processing"/> |



75839 CUMBERLAND CNTY BIOSOLIDS\_ORGANICS RF PCP190001 E3 (Manufacturing and Materials Handling Equipment)

|   |  |
|---|--|
| Make:   | <input type="text"/>                     |
| Manufacturer:   | <input type="text" value="Vermeer"/>     |
| Model:  | <input type="text" value="TR626"/>       |
| Type of Manufacturing and Materials Handling Equipment:   | <input type="text"/>                     |
| Capacity:   | <input type="text" value="2.00E+02"/>    |
| Units:  | <input type="text" value="other units"/> |
| Description (if other):   | <input type="text" value="cu-yd/hr"/>    |
| Have you attached a diagram showing the location and/or the configuration of this equipment?              | <input type="text" value="Yes"/>         |
| Have you attached any manuf.'s data or specifications to aid the Dept. in its review of this application? | <input type="text" value="Yes"/>         |
| Comments:   |  |

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**75839 CUMBERLAND CNTY BIOSOLIDS\_ORGANICS RF PCP190001 E4 (Manufacturing and Materials Handling Equipment)**

Make:

Manufacturer:

Model:

Type of Manufacturing and Materials Handling Equipment:

Capacity:

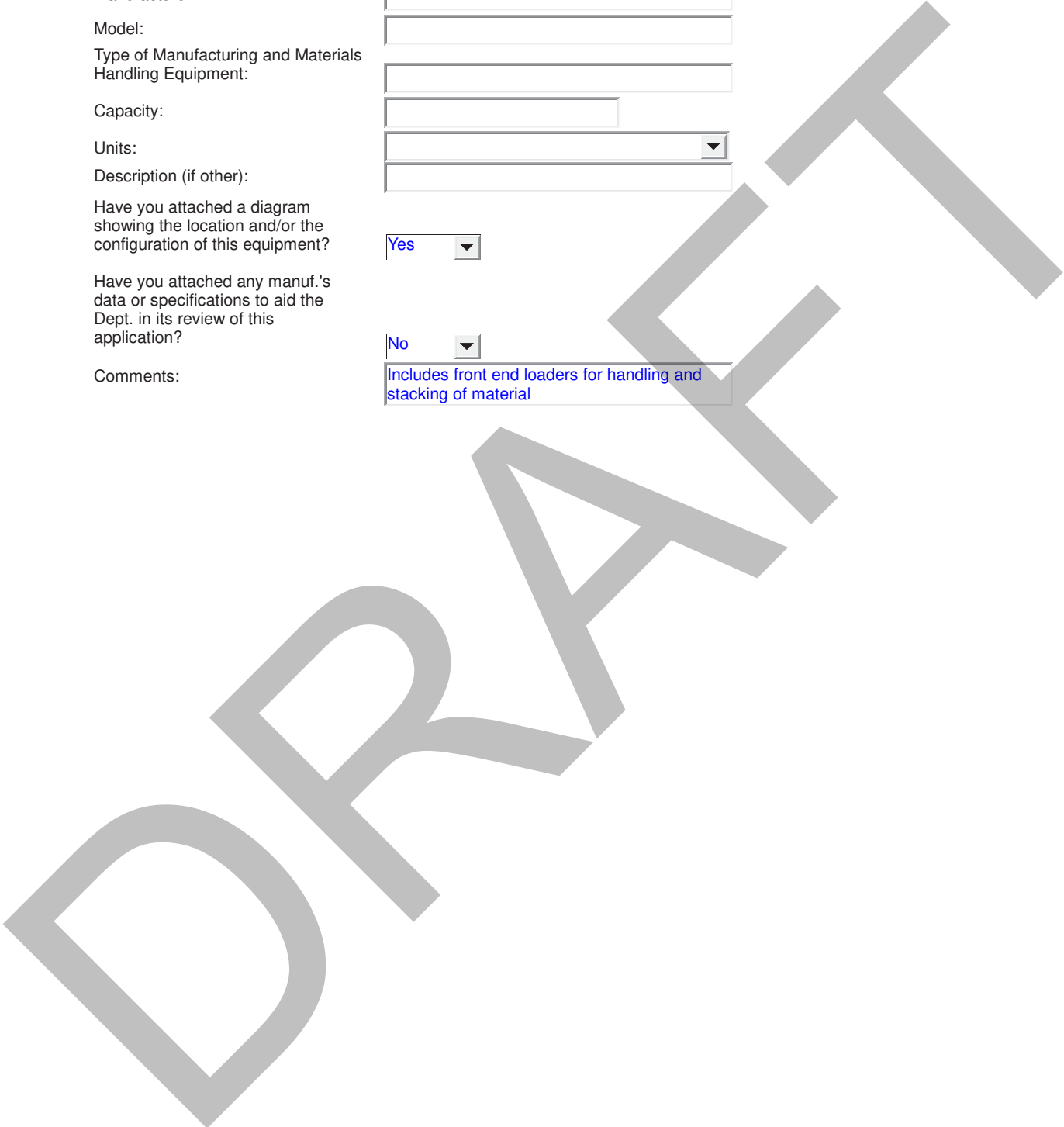
Units:

Description (if other):

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:





75839 CUMBERLAND CNTY BIOSOLIDS\_ORGANICS RF PCP190001 E5 (Manufacturing and Materials Handling Equipment)

Make:

Manufacturer:

Model:

Type of Manufacturing and Materials Handling Equipment:

Capacity:

Units:

Description (if other):

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

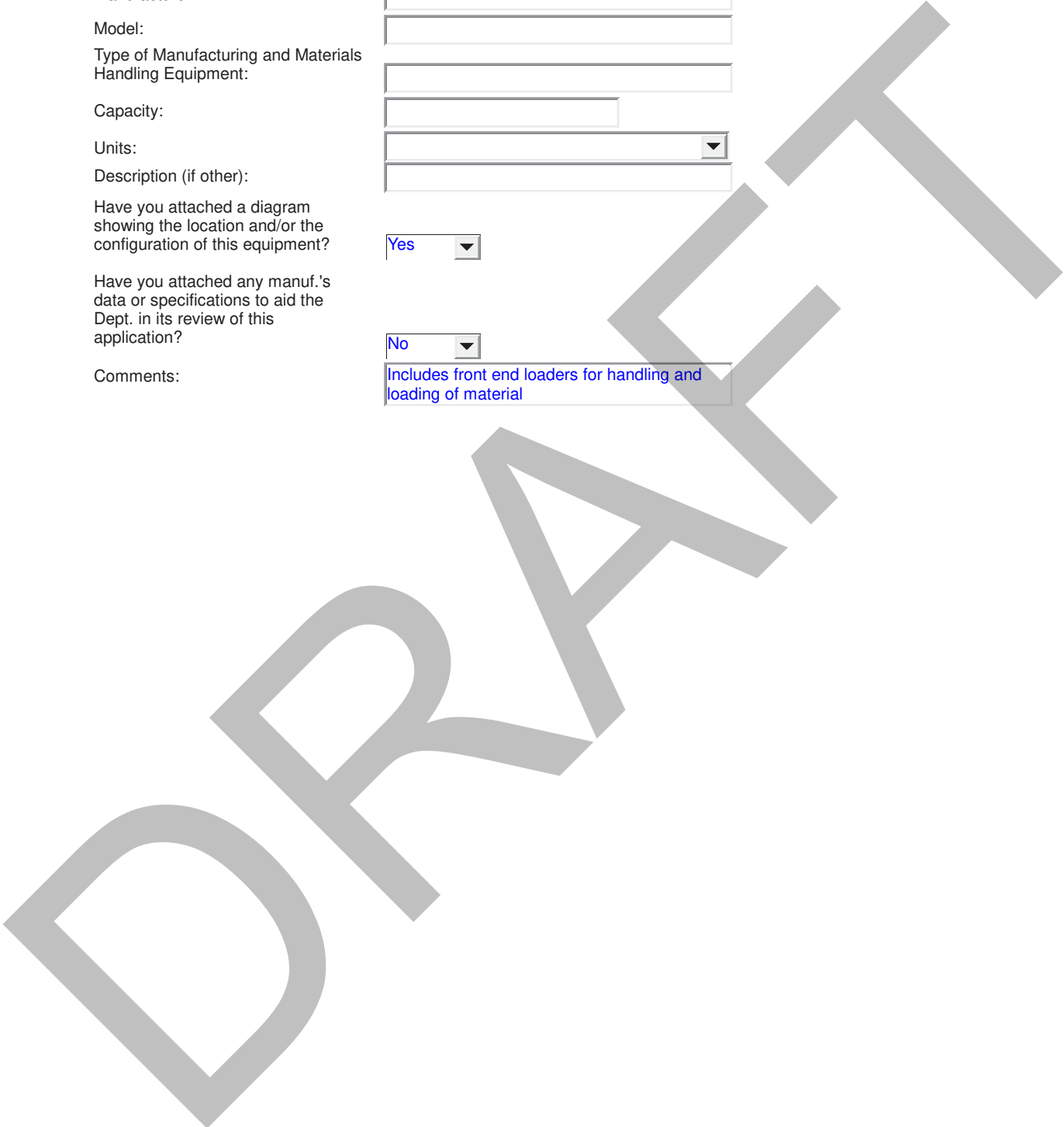
Yes

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

No

Comments:

Includes front end loaders for handling and loading of material



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     | Biofilter              | Biofilter   | Biofilter |              | No             |                        |           |

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75839 CUMBERLAND CNTY BIOSOLIDS\_ORGANICS RF PCP190001 CD1 (Biofilter)

Print Date: 7/13/2020

|  |   |
|--|---|
| Make:  |   |
| Manufacturer:  | BDP - BacTee  |
| Model:   |   |
| Maximum Air Flow Rate to Biofilter (acfm):                 | 190000  |
| Maximum Temperature of Vapor Stream to Biofilter (°F):     | 115   |
| Minimum Temperature of Vapor Stream to Biofilter (°F):     | 50  |
| Minimum Moisture Content of Vapor Stream to Biofilter (%): | 80  |
| Bed Composition:   | Wood chips from hardwood/softwood trees or pallet material in a blend, including some bark, root, leaves, compost and other suitable material         |
| Type of Adsorbate:   | organics, odorous compounds, NH3  |
| Bed Height:  | 6.5   |
| Bed Length:  | 280   |
| Bed Width:   | 123   |
| Units:   | Feet  |
| Other Bed Dimension:                                       |   |
| Value:   |   |
| Units:   |   |
| Minimum Pressure Drop Across Biofilter (in. H2O):          | 1   |
| Maximum Pressure Drop Across Biofilter (in. H2O):          | 8   |
| Bed Activity (pH):   | 9   |
| Method Used to Maintain Bed Moisture:                      | Ventilation air at/near saturation (100%rH) prior to entering biofilter media. Humidification sys -water spray, or air washer, or fogging misting sys |
| Method Used to Maintain Bed Activity:                      | Proper aeration and humidification. The bed is self-sustaining with the microbial species.  |
| Method Used to Maintain Bed Temperature:                   | The blend of ambient ventilation air mixing with the energy from the enclosed composting process will maintain bed temp w/o external source of energy |
| Method Used to Reactivate Biofilter Material:              | Remove the material from pad, remix/replace some/all with additional new wood chip material. Re-balance pH by adding lime or other pH buffer.         |

Method Used to Determine When Biofilter Should be Reactivated:

Monitoring backpressure of the media with pressure sensor(s) in the plenum/trench just upstream of the biofilter cells. PH and moisture level sampling

Method used to Dispose of Biofilter Material?

Unless a chemical analysis indicates the presence of problematic compounds, used wood chips can be used as an amendment for the composting feedstock

Is the Biofilter Covered?

Yes  No

Is the Biofilter Heated?

Yes  No

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:

Have you attached data from recent performance testing?

Yes  No

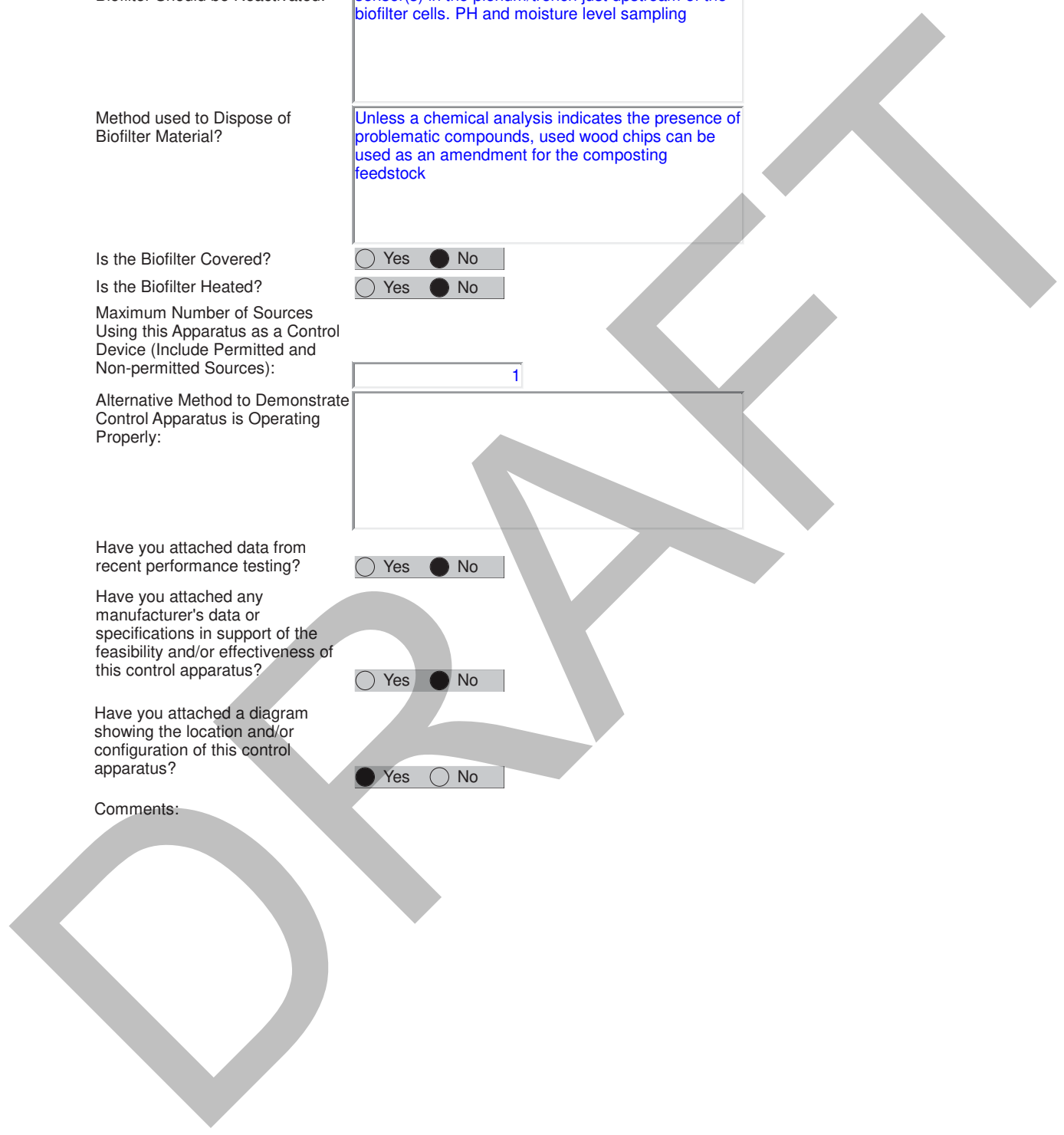
Have you attached any manufacturer's data or specifications in support of the feasibility and/or effectiveness of this control apparatus?

Yes  No

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

Yes  No

Comments:



**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     | BF1                    | Biofilter Surface                         | Surface | 999                | 7            | 194                      | 70.0                   | 50.0  | 115.0 | 190,000.0           | 190,000.0 | 190,000.0 | Up                  |           |
| PT2     | AMEND                  | Ammendment Storage Surface Area           | Surface | 999                | 20           | 233                      | 70.0                   | 70.0  | 70.0  |                     |           |           | Up                  |           |
| PT3     | COMP                   | Compost Storage Surface Area              | Surface | 999                | 20           | 217                      | 70.0                   | 70.0  | 70.0  |                     |           |           | Up                  |           |
| PT4     | TROM_ICE               | Trommel ICE                               | Round   | 6                  | 15           | 361                      | 797.0                  | 797.0 | 797.0 | 562.0               | 562.0     | 562.0     | Up                  |           |
| PT5     | TROM_SCR               | Trommel Screening/Conveyance Surface Area | Surface | 382                | 16           | 361                      | 70.0                   | 70.0  | 70.0  |                     |           |           | Up                  |           |

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

U 1 EU-1 Compost Process including material receiving, handling and storage

| 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      | OS-1                   | Composting                              | Normal - Steady State | E1             | CD1 (P)           | PT1               | 5-01-007-01 | 8,760.0            | 8,760.0 | A         | 190,000.0   | 190,000.0 | 50.0          | 115.0 |
| OS3      | OS-3                   | Material screening on trommel screen    | Normal - Steady State | E3             |                   | PT5               | 3-07-999-98 | 500.0              | 1,320.0 |           | 0.1         | 0.1       | 70.0          | 70.0  |
| OS4      | OS-4                   | Conveyors on trommel screen             | Normal - Steady State | E3             |                   | PT5               | 3-07-040-04 | 500.0              | 1,320.0 |           | 0.1         | 0.1       | 70.0          | 70.0  |
| OS5      | OS-5                   | Compost Amendments Storage and Handling | Normal - Steady State | E4             |                   | PT2               | 3-07-040-02 | 8,760.0            | 8,760.0 |           |             |           | 70.0          | 70.0  |
| OS6      | OS-6                   | Compost Storage and Handling            | Normal - Steady State | E5             |                   | PT3               | 3-02-999-99 | 8,760.0            | 8,760.0 |           |             |           | 70.0          | 70.0  |

Volume of Gas Discharged from  
this source (acfm):

190,000.00

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75839 CUMBERLAND CNTY BIOSOLIDS\_ORGANICS RF PCP190001 U1 OS1 (Efficiency Table - CD1)  
 Print Date: 7/13/2020

| Pollutant Category | Capture Efficiency (%) | Removal Efficiency (%) | Overall Efficiency (%) |
|--------------------|------------------------|------------------------|------------------------|
| CO                 |                        |                        |                        |
| HAP (Total)        |                        |                        |                        |
| NOx                |                        |                        |                        |
| Other (Total)      | 100                    | 90                     | 90                     |
| PM-10              |                        |                        |                        |
| PM-2.5             |                        |                        |                        |
| Pb                 |                        |                        |                        |
| SO2                |                        |                        |                        |
| TSP                |                        |                        |                        |
| VOC (Total)        | 100                    | 90                     | 90                     |

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