



Application for the Land Treatment of Waste Products (Part V)
Distribution and Marketing Permit
Land Treatment of Wastes Program
Delaware Department of Natural Resources and Environmental Control
Surface Water Discharges Section (SWDS)

General Information

Date: 01/31/2024

Facility Name: Veolia Water Delaware, Inc. (Stanton & Christiana WTP)

Facility Address: 2000 First State Blvd.
Wilmington, DE 19804

Contact Person : Robert Penman Contact Info: Senior Operations Manager

Out of state waste being utilized? Yes No
If yes, what state(s)

Waste Product Characterization (Part V, Section 164)

Describe in detail the source and constituent makeup of the waste product.

Waste Source Characterization (Part V, Subsection 165)

The following information shall be submitted to the Department's SWDS to characterize the source of the waste product.

- a. A process flow chart which identifies and explains each phase of the waste product generation process.
- b. A description of all major equipment and components used in the process that generates the waste product.
- c. A description of any stabilization or treatment process the waste product will undergo prior to final utilization.
- d. Estimated quantity of waste product generated (annual and monthly basis).
- e. Any waste containing pathogenic agents shall be stabilized in accordance with requirements in Part III, (B) Sections 132-135 of the Department's Guidance and Regulations Governing the Land Treatment of Wastes.

Waste Constituent Characterization (Part V, Subsection 166)

The waste generator(s) shall submit to the Department the most recent chemical analysis of the waste product for the parameters found in Appendix A, Table 1 of this form.

Waste Management Plan (Part V, Subsection 168)

An application for a permit, to utilize a waste product for a distribution and marketing program, shall include a Waste Management Plan for Department review and approval. The Waste Management Plan shall provide:

- a. An explanation of how the waste product will be utilized.
- b. An operation plan to include proposed application rates; the proposed life of the operation; processing equipment to be used at the site; storage practices; runoff/runoff control; site access control; and any other information requested by the Department.

Product Literature: (Part V, Subsection 169)

The applicant shall develop a printed product label for the waste product that provides the following information:

- a. The name, address, and phone number of the preparer.
- b. Instructions for the proper use and application methods for the waste product.
- c. Identify the source, chemical make-up of the waste product, and essential plant nutrient content.
- d. Provide detailed instructions for its use on different plant types, soils, and slopes, maximum loading rates for specified uses, and any unacceptable use of the material.
- e. Instructions for proper storage, stockpiling, and transportation.
- f. Describe steps necessary to reduce nuisances of product utilization to the public (setbacks, wind restrictions, etc.).
- g. A statement that land application of the material is prohibited except in accordance with the instructions on the label.

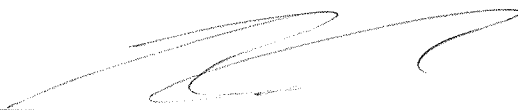
Additional Requirements

The Permit applicant shall provide to the Department the following documents prior to application approval:

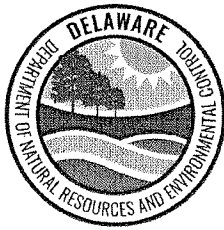
- a. Evidence that pathogenic organisms are absent from the waste product.
- b. Evidence that the waste product will be dried or otherwise amended to a minimum of twenty percent (20%) solids prior to distribution and marketing and evidence that the waste product contains no free liquids.
- c. Evidence that the waste produced does not exceed the limitations for heavy metals and other constituents as established in Part III, B, Subsection 117.1 of Part V of the Department's Guidance and Regulations Governing the Land Treatment of Wastes.
- d. Evidence that there is a market for the waste material.
- e. A description of the distribution and marketing system including the identification of end-users and the final use of the waste product.
- f. Signed user agreement(s) (for use in Delaware). The agreement(s) must identify the material(s) that will be land applied, indicate that the end-user agrees to comply with the product label, and include a signature line for the permittee and end-user.
- g. Documentation confirming that all requirements of the Delaware Department of Agriculture Regulations (Chapter 21, Title 3, Delaware Code) governing the sale of commercial fertilizers and soil conditioners have been met.
- h. Signature of Corporate Officer certifying under penalty of law that this document and all attachments were prepared under my

information submitted.

Signature of Corporate Officer:



1-31-24



Land Treatment of Waste Products (Part V) Distribution and Marketing Permit Appendix A

Delaware Department of Natural Resources and Environmental Control
Surface Water Discharges Section

Parameter	Measurement	Sample Type
pH	S.U.	Composite
Calcium Carbonate Equivalent	percent	Composite
Moisture content	percent	Composite
Percent Volatile Solids	percent	Composite
Total Nitrogen as N (dry weight basis)	mg/kg	Composite
Organic Nitrogen as N (dry weight basis)	mg/kg	Composite
Ammonia Nitrogen as N (dry weight basis)	mg/kg	Composite
Nitrate and Nitrite Nitrogen as N (dry weight basis)	mg/kg	Composite
Total Phosphorus as P (dry weight basis)	mg/kg	Composite
Potassium (dry weight basis)	mg/kg	Composite
Arsenic (dry weight basis)	mg/kg	Composite
Cadmium (dry weight basis)	mg/kg	Composite
Calcium (dry weight basis)	mg/kg	Composite
Chromium (dry weight basis)	mg/kg	Composite
Copper (dry weight basis)	mg/kg	Composite
Iron (dry weight basis)	mg/kg	Composite
Lead (dry weight basis)	mg/kg	Composite
Magnesium (dry weight basis)	mg/kg	Composite
Mercury (dry weight basis)	mg/kg	Composite
Molybdenum (dry weight basis)	mg/kg	Composite
Nickel (dry weight basis)	mg/kg	Composite
Selenium (dry weight basis)	mg/kg	Composite
Sodium (dry weight basis)	mg/kg	Composite
Zinc (dry weight basis)	mg/kg	Composite
PCB's (dry weight basis)	mg/kg	Composite
Fecal Coliform	MPN	Composite

Table 1(Waste)

Biosolids- Part-V. AF- (Last Revision 1/25/24)

* The Department may require the sampling for additional parameters on a case-by-case basis.

Note: The permittee shall conform to any requirements in County ordinances and policies in addition to DNREC permit requirements. County approval, if applicable, shall be obtained prior to Department permit issuance.

Documentation confirming that all requirements of the Delaware Department of Agriculture Regulations (**Chapter 21, Title 3, Delaware Code**) governing the sale of commercial fertilizers and soil conditioners, have been met is required prior to permit issuance.