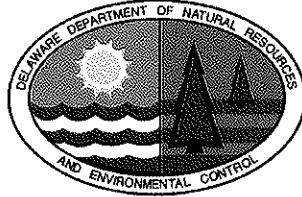


Amended: Change of PFRP process and added
the production of heat dried EQ biosolids
Pages Affected: All

State Permit Number: DM 0902-K-03
Effective Date: June 1, 2009
Amendment Dates: March 1, 2011
January 14, 2013
Expiration Date: May 31, 2014



AUTHORIZATION TO CONDUCT
A LIMITED DISTRIBUTION AND MARKETING PROGRAM
FOR THE UTILIZATION OF SLUDGE OR SLUDGE PRODUCTS

Pursuant to the provisions of 7 Del. C., 6003

Kent County Levy Court
555 Bay Road
Dover, Delaware 19901

is hereby granted authorization to conduct a limited distribution and marketing program for the utilization of the following EQ biosolids products generated at the Kent County Wastewater Treatment Facility:

- 1) Thermally treated and lime stabilized sludge product (sludge thermally treated in thermal driers)
- 2) Heat dried sludge (sludge dried in greenhouses)

The general requirements, monitoring requirements and other permit conditions are set forth in Parts I, II and III hereof.

Bryan Ashby, Program Manager
Surface Water Discharges Section
Division of Water
Department of Natural Resources
and Environmental Control

1/14/13

Date Signed

GENERAL DESCRIPTION OF OPERATION

The operation involves two methods of sewage sludge stabilization to an EQ biosolids rating.

One method involves the thermal treatment (reaches and maintains a temperature of 75° Centigrade (C) for a minimum of 20 minutes) of sewage sludge generated by the Kent County Wastewater Treatment Facility. Additionally, the sludge is lime stabilized (sludge reaches and maintains a pH of 12 S.U. for a minimum of 2 hours and then maintains a pH of 11.5 or higher for an additional 22 hours) to meet vector attraction reduction requirements.

The other method involves the Parkson Thermo Drying System for stabilization through wastewater treatment and heat drying (demonstration that Fecal Coliform, Salmonella, Enteric Viruses and Viable Helminth Ova are below regulated levels) of sewage sludge generated by the Kent County Wastewater Treatment Facility in greenhouses. The sludge is dried to at least 75% solids before distribution.

The stabilization process begins when unstabilized sewage sludge is dewatered on a belt filter press (to a range of 15-21% solids) and then mixed with lime using a variable speed pug mill mixer.

Sludge that is thermally treated is then conveyed to one of two non-direct contact dryers used to heat the sludge to temperatures in excess of 75° C for a minimum of 20 minutes. The resultant EQ Class A thermally treated biosolids product, marketed as "Kentorganite", will be utilized as a liming material for agronomic purposes in accordance with the "Kentorganite" product label.

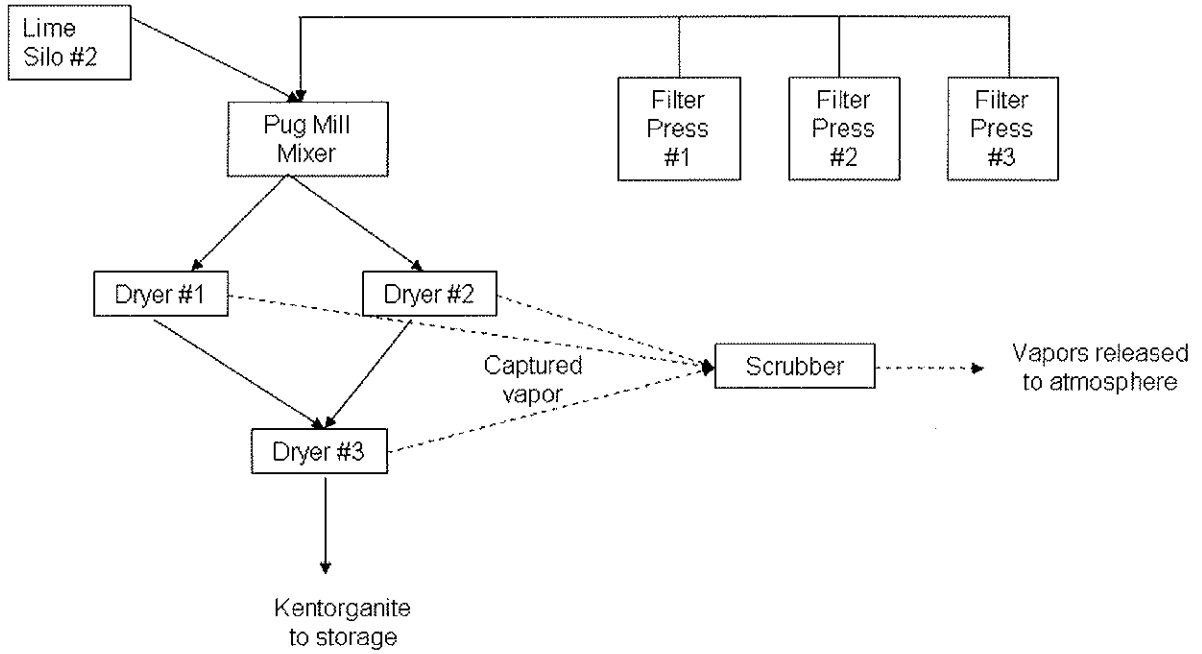
Sludge that will be heat dried in greenhouses is loaded into a spreader truck and transported to the Kent County Wastewater Treatment Plant greenhouses from the thermal treatment processing building/cake storage shed to a greenhouse. The material is then spread to an even depth of four to twelve inches throughout the greenhouses (except for a 6 foot arc in the corners is left intentionally empty due to inaccessibility of the sludge leveling/mixing mole to turn the material sufficiently). Greenhouses receive heat for sludge drying from solar radiance through the glass panels and/or heating of the greenhouse floor. Sludge remains in the greenhouses until the dry solids content reaches 75% or more at which time the sludge is piled in the rear of the greenhouses or in a three sided enclosure under the cake storage shed for testing to demonstrate the sludge meets EQ biosolids criteria.

Upon receiving results documenting that a batch of sludge from the greenhouses has achieved an EQ biosolids rating the material may be distributed. EQ biosolids products will also be marketed as "Kentorganite" and will be utilized as a liming material for agronomic purposes for crops that will not be utilized for human consumption.

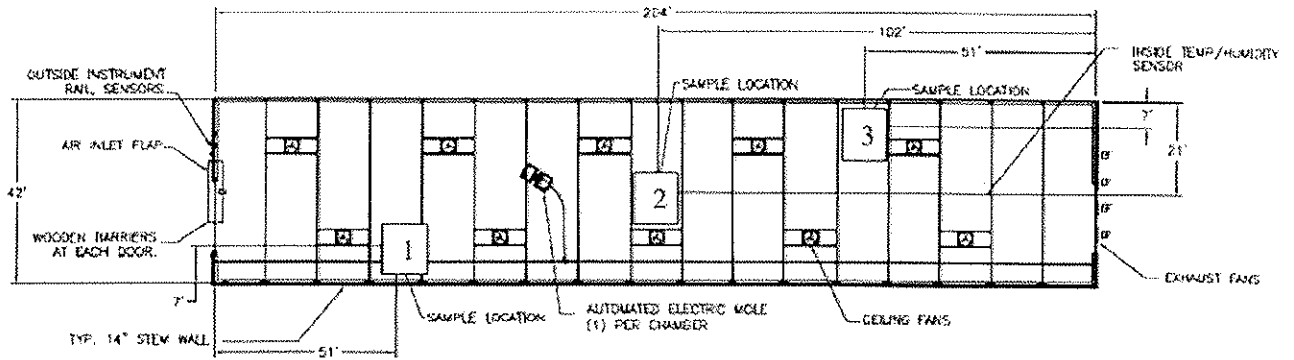
After distribution, EQ biosolids will be land applied at the land application farm within seven (7) days of delivery to the site. All product will be produced, stored and handled in accordance with specifications and instructions in the "Kentorganite" product label.

Heat dried EQ biosolids produced in greenhouses that will be utilized in a cement kiln will not have lime added to the biosolids product during treatment.

Thermal Treatment Process



Typical Greenhouse Layout



The limited distribution and marketing program shall be conducted in accordance with the following documents:

1. The Department's Guidance and Regulations Governing the Land Treatment of Wastes, Part III, (B); (October 1999 Revision);
2. The original permit application, dated April 2, 1993;
3. Further submittals regarding storage, QA/QC, process design, and further research on application rates, received June 4, 1993;
4. An amended Quality Assurance/Quality Control plan, received July 2, 1993;
5. Title 40 of the Code of Federal Regulations Part 503, "Standards for the Use and Disposal of Sewage Sludge";
6. The application for renewal of LDM 0008/93C dated January 13, 2009;
7. The request dated December 21, 2010 to amend the method listed in the LDM permit DM 0902-K-03 to achieve Class A (PFRP) sludge requirements;
8. The Project Development Report for Biosolids in Greenhouse dated November 21, 2012; and
9. Kentorganite product label dated November 21, 2012.

A. PROGRAM LIMITATIONS

During the period beginning on the effective date and lasting through the expiration date the permittee is authorized to conduct a Limited Distribution and Marketing Program for thermally treated and heat dried EQ biosolids generated at the Kent County Wastewater Treatment Facility. The program limitations are specified below:

Only thermally treated and heat dried sludge, known as Kentorganite, which satisfies the EQ requirements as specified in Part III, (B), of the Guidance and Regulation Governing the Land Treatment of Wastes may be distributed under this permit.

Thermally Treated EQ Biosolids:

In order to satisfy the minimum requirements for EQ conditions, the thermally treated lime-amended sludge must be maintained at operating temperatures of 75 Degrees Centigrade or greater for a minimum of twenty (20) minutes. Additionally, the sludge must be maintained at a pH of 12 S.U. for a minimum of 2 hours and then at a pH of 11.5 or higher for an additional 22 hours. Furthermore, the fecal coliform in the sewage sludge must be less than 1,000 most probable number per gram of total solids or the density of Salmonella sp. bacteria in the sewage sludge shall be less than three (3) most probable number per four (4) grams of total solids.

Heat Dried (Greenhouse) EQ Biosolids:

In order to satisfy the minimum requirements for EQ conditions, the fecal coliform in the heat dried sludge must be less than 1,000 most probable number per gram of total solids and the density of Salmonella sp. bacteria in the sewage sludge shall be less than three (3) most probable number per four (4) grams of total solids. The density of enteric viruses in the sludge shall be less than one Plaque-forming Unit per four grams of total solids (dry weight basis). The density of viable Helminth Ova in the sludge shall be less than one per four grams of total solids (dry weight). Additionally, the sludge must be dried until the dry solids content reaches 75% or more.

Off-spec sludge product shall not be distributed. The sludge product shall be deemed to be off-spec if it fails to meet PFRP Class A conditions, vector control requirements, or any of the following pollutant concentrations are exceeded on a dry weight basis:

Arsenic	41 mg/kg	Cadmium	39 mg/kg	Chromium	1200 mg/kg	Copper	1500 mg/kg
Lead	300 mg/kg	Mercury	17 mg/kg	Molybdenum	*	Nickel	420 mg/kg
PCB's	10 mg/kg	Selenium	36 mg/kg	Zinc	2800 mg/kg	-	-
Fecal Coliform				1000 colonies/gm (MPN)			
				Salmonella Density (sp) 3/4gm (MPN)			

* Reserved. (No limit has been established for this parameter at the time of permit issuance.)

Utilization of off-spec sludge product must receive separate authorization from the Department prior to distribution if not re-processed.

A. PROGRAM LIMITATIONS (continued)

The permittee shall resample the sludge product and submit to the Department additional analysis if there has been a significant increase (greater than 25%) from a baseline established in the permit application. Based upon a review of the data submitted the Department may require the permittee to make changes in the product literature, may limit the allowable end uses, or may otherwise modify or revoke this permit.

EQ biosolids product generated at the Kent County Wastewater Treatment Facility shall not be land applied on crops for direct human consumption and shall not be applied to land where root vegetables or vegetables which are eaten raw or are grown or will be grown within twenty-four (24) months. Kentorganite can be used on turf or sod farms and any crop that is a secondary consumption crop for humans such as animal feed crops.

EQ biosolids product may only be distributed as a liming material to raise soil pH for agricultural purposes and for use on athletic fields, golf courses, roadside grass strips and other similar grassy areas.

Copies of the product literature sheet, as submitted to the Department in the permit application, shall be distributed to each end-user.

Additional end uses of Kentorganite may be approved by the Department following Departmental written approval of use-specific product literature.

The permittee shall not knowingly allow any customer to use the EQ biosolids product in any manner which is inconsistent with the product literature.

EQ biosolids will be land applied at the land application farm within seven (7) days of delivery to the site. All product will be stored and handled in accordance with the product label. No EQ biosolids product may be stored or applied so as to cause surface or groundwater pollution, run-on/runoff, cause odor, adversely affect the food chain, attract vectors, or adversely affect private or public water supplies.

The permittee shall require the use of tarps or otherwise assure that all vehicles transporting EQ biosolids products from the facility are properly sealed to retain the EQ biosolids product in the vehicle during transportation.

B. MONITORING REQUIREMENTS

During the period beginning on the effective date and lasting through the expiration date the permittee is authorized to conduct a Limited Distribution and Marketing program for the EQ biosolids product generated at the Kent County Wastewater Treatment Facility. Product for distribution and marketing shall be monitored by the permittee as specified below:

B.1 THERMALLY TREATED AND HEAT DRIED SLUDGE PRODUCT

Parameter	Measurement	Minimum Frequency	Sample Type
Moisture content	percent	Monthly	Composite
Total Nitrogen as N (dry weight basis)	percent	Monthly	Composite
Organic Nitrogen as N (dry weight basis)	percent	Monthly	Composite
Ammonium as N (dry weight basis)	percent	Monthly	Composite
Nitrate Nitrogen as N (dry weight basis)	percent	Monthly	Composite
Phosphorus (dry weight basis)	percent	Monthly	Composite
Potassium (dry weight basis)	percent	Monthly	Composite
Volatile solids	percent	Monthly	Composite
Calcium Carbonate Equivalence	percent	Monthly	Composite
Fecal Coliform (Colonies/gm)	MPN	Monthly	Composite
Salmonella (sp) (Colonies/4gm)	MPN	Monthly	Composite
pH	S.U.	Monthly	Composite
Aluminum (dry weight basis)	mg/kg	Monthly	Composite
Arsenic (dry weight basis)	mg/kg	Monthly	Composite
Cadmium (dry weight basis)	mg/kg	Monthly	Composite
Chromium (dry weight basis)	mg/kg	Monthly	Composite
Chlorides (dry weight basis)	mg/kg	Monthly	Composite
Copper (dry weight basis)	mg/kg	Monthly	Composite
Iron (dry weight basis)	mg/kg	Monthly	Composite
Lead (dry weight basis)	mg/kg	Monthly	Composite
Mercury (dry weight basis)	mg/kg	Monthly	Composite
Molybdenum (dry weight basis)	mg/kg	Monthly	Composite
Nickel (dry weight basis)	mg/kg	Monthly	Composite
Selenium (dry weight basis)	mg/kg	Monthly	Composite
Sodium (dry weight basis)	mg/kg	Monthly	Composite
Zinc (dry weight basis)	mg/kg	Monthly	Composite
PCB's (dry weight basis)	mg/kg	Monthly	Composite
Priority pollutant scan (see NOTE)	---	Every 3 years	Composite

* Thermally treated sludge samples shall be collected at the following location: Dryer three (3) discharge belt. Sampling for the above parameters shall not be required for heat dried sludge unless monthly thermally treated sludge is not produced and samples are not collected in which case every batch of heat dried sludge shall be tested. If one batch sample has already been collected for the month, additional batch samples are not required.

Note: Every batch sample collected for heat dried sludge shall be analyzed for fecal coliform and salmonella. All processed sludge samples shall be collected and analyzed in accordance with the Quality Assurance Program.

See Part I, F.1. for reporting requirements. The Department may modify the sampling frequency based upon review of continuing or additional analyses.

NOTE: A list of the 126 priority pollutants can be found in 40 CFR, Part 423, Appendix A, 1987.

B.2 THERMALLY TREATED SLUDGE PRODUCT STABILIZATION AND TREATMENT PROCESS MONITORING

<u>Parameter</u>	<u>Unit Measurement</u>	<u>Minimum Sampling Frequency</u>	<u>Sample Type</u>
Temperature	Degrees Centigrade	Initially and at least twenty (20) minutes thereafter	Grab
Fecal	MPN (dry weight basis)	Monthly	Composite
pH	S.U.	Initially, two (2) hours and 22 hours thereafter	Grab

NOTE: Temperature and pH monitoring results shall be recorded in a bound log book submitted as part of the Quality Control Program. See Part I, F.2 for reporting requirements.

B.3 HEAT DRIED SLUDGE PRODUCT STABILIZATION AND TREATMENT PROCESS MONITORING

<u>Parameter</u>	<u>Unit Measurement</u>	<u>Minimum Sampling Frequency</u>	<u>Sample Type</u>
Fecal and Salmonella	MPN (dry weight basis)	Every Batch	Composite
Enteric Viruses	Plaque-forming unit per four grams of total solids (dry weight basis)	Every Batch	Composite
Viable Helminth Ova	One per four grams of total solids (dry weight basis)	Every Batch	Composite
Dry Solids Content	%	Every Monday, Wednesday and Friday for every batch	Composite
pH	S.U.	At completion of every batch initially, two (2) hours and 22 hours thereafter.	Grab

NOTE: Dry solids and pH monitoring results shall be recorded in a bound log book submitted as part of the Quality Control Program. pH adjustment and monitoring is not required if biosolids are to be utilized at a cement kiln as a fuel source. Provided that none of the samples fail to meet exceptional quality requirements during within one year of this modification date of this permit, heat treated biosolids materials from the three greenhouses may be combined into a single pile and a composite sampled collected for the parameters above.

See Part I, F.2 for reporting requirements.

C. SCHEDULE OF COMPLIANCE

None

D. BONDING

Not required pursuant to Part III, (B), Section 500 of the Guidance and Regulations Governing the Land Treatment of Wastes.

E. MONITORING

1. Representative Sampling

- a. Samples and measurements taken as required herein shall be representative of the volume and nature of the sludge product to be distributed and marketed.
- b. All thermally treated and/or heat dried sludge product must be analyzed for the parameters identified in Part I, B.1, B.2 and B.3 of this permit, as applicable, prior to distribution.

2. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date and time of sampling and/or measurement;
- b. The person(s) who performed the sampling and/or measurement;
- c. The dates and analyses were performed and the time the analyses were begun;
- d. The person(s) who performed the analyses;
- e. The results of each analysis, along with the original laboratory report; and
- f. The analytical methods employed.

3. Records Retention

All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed and calibration and maintenance of instrumentation and recording from continuous monitoring instrumentation, shall be retained for five (5) years. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Department.

F. REPORTING

1. Monthly Report

- a. Sludge product analytical and stabilization process monitoring data obtained during the previous one (1) month shall be summarized for each month and postmarked no later than the 28th day of the month following the completed reporting period. Signed copies of these, and all other reports required herein, shall be submitted to

the Department at the following address:

DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL, DIVISION OF WATER, SURFACE WATER DISCHARGES SECTION, 89 KINGS HIGHWAY, DOVER, DELAWARE 19901 TELEPHONE: (302) 739-9946

When submitting monitoring results, copies of the original laboratory sheets should be included. If more than one sample is analyzed during any month, a table showing the range of constituent concentration values shall be prepared and included with the submittal.

- b. Temperature and pH monitoring of the sludge product as required in Part I, B.2 and B.3 of this permit, shall be summarized in the monthly report.

2. Annual Report

The permittee shall submit to the Department an annual report to include the date, customer, shipping destination and quantity per customer for all sludge products distributed during the previous year. The annual report may be submitted electronically or in any format specified by the Department. The annual report shall be due on February 1 of each year, and the information contained in the report shall cover the previous calendar year.

3. Test Procedures

Test procedures for laboratory analyses shall conform to the applicable test procedures identified in Section 152 of Part III, (B), of the Guidance and Regulations Governing the Land Treatment of Wastes, Title 40, Code of Federal Regulations, Part 503, Subsection 503.8 and to the applicable test procedures identified in the Quality Control Program.

G. DEFINITIONS

1. "Composite" means a series of grab samples which have been collected in a manner such that the final sample is representative of the volume and characteristics of the sludge to be distributed.
2. "Distribute" means to barter, sell, offer for sale, consign, furnish, provide, or otherwise supply a material as part of a commercial enterprise or giveaway program.
3. "Exceptional Quality Biosolids" ("EQ Biosolids") sludge that has been stabilized by a PFRP, meets Vector Attraction Reduction Requirements and contains lower metal concentrations than the allowable Pollutant Concentration levels.
4. "Food chain crops" means tobacco, crops grown for human consumption, and crops grown to feed animals whose products are consumed by humans.
5. "Handling" means any way in which sludge, treated sludge, or any other product containing these materials is dealt with, other than collection, burning, storage, treatment, land application, disposal, or transportation. It includes distribution of treated sludge.
6. "Heat dried sludge product" means sludge which has undergone processing to meet PFRP standards that is verified by testing. The sludge is heat dried by using thermal radiance from the sun to dry the product to a dry solids content of 75% or greater.
7. "Label" means the display of all written, printed, or graphic material on the immediate container, or information accompanying the material.
8. "Landfill" means a natural topographic depression, man-made excavation or diked area formed primarily of earthen materials, which has been lined with man-made materials or remains unlined and which is designed to hold an accumulation of solid wastes.
9. "Person" means an individual, trust, firm, joint stock company, federal agency, corporation (including a government corporation), partnership, association, state, municipality, commission, political subdivision of a state, or any interstate body.
10. "PFRP" means process to further reduce pathogens. Also known as Class "A" sludge.
11. "Sewage" means water-carried human or animal wastes from septic tanks, water closets, residences, buildings, industrial establishments, or other places, together with such groundwater infiltration, subsurface water, admixture of industrial wastes or other wastes as may be present.

12. "Sewage sludge" means sludge which derives in whole or in part from sewage.
13. "Sludge" means the accumulated semi-liquid suspension, settled solids, or dried residue of these solids that is deposited from (a) liquid waste in a municipal or industrial wastewater treatment plant, (b) surface or ground waters treated in a water treatment plant, whether or not these solids have undergone treatment. Septage is included herein as sludge.
14. "Solid waste" means any garbage, refuse, rubbish, and other discarded materials resulting from industrial, commercial, mining, agricultural operations and from community activities which does not contain free liquids. Containers holding free liquids shall be considered solid waste when the container is designed to hold free liquids for use other than storage (e.g. radiators, batteries, transformers) or the waste is household waste.
15. "Storage" means the interim containment of sludge, treated sludge, or any other product containing these materials after removal from the wastewater and before disposal or utilization.
16. "Thermally treated sludge product" means sludge which has undergone processing to meet PFRP standards by increasing temperature to 75°C or greater for a minimum of twenty (20) minutes.
17. "Treatment" means a process which alters, modifies or changes the biological, physical, or chemical characteristics of sludge or liquid waste.

Part II

A. MANAGEMENT REQUIREMENTS

1. Noncompliance Notification

The permittee shall report to the Department:

- a. In writing, thirty (30) days before any planned change to the sludge treatment process or the distribution and marketing program, if that change would result in any alterations to the program as represented in the permit application.
- b. In writing thirty (30) days before any anticipated change which would result in noncompliance with any permit condition, the Guidance and Regulations Governing the Land Treatment of Wastes or 40 CFR, Part 503, Standards for the Use and Disposal of Sewage Sludge.
- c. Orally within twenty-four (24) hours from the time the permittee became aware of any noncompliance which may endanger the public health or the environment, at (800) 662-8802. In addition, a call must be placed at (302) 739-9946 during normal business hours, and;
- d. In writing as soon as possible but within five (5) days of the date the permittee knows or should know of any noncompliance unless extended by the Department. This report shall contain:
 - 1) A description of the noncompliance and its cause.
 - 2) The period of noncompliance including to the extent possible, times and dates and, if the noncompliance has not been corrected, the anticipated time it is expected to continue.
 - 3) Steps taken or planned to reduce or eliminate reoccurrence of the noncompliance.
- e. In writing as soon as possible after the permittee becomes aware of relevant facts not submitted or incorrect information submitted, in a permit application or any report to the Department. Those facts or the correct information shall be included as a part of this report.

2. Minimize Impacts

The permittee shall take all necessary actions to eliminate and correct any adverse impact on the public health or the environment resulting from permit noncompliance.

B. RESPONSIBILITIES

1. Renewal Responsibilities

At least 180 days before the expiration date of this permit, the permittee shall submit a new application for a permit or notify the Department of the intent to cease operation of the distribution and marketing program by the expiration date. In the event that a timely and sufficient reapplication has been submitted and the Department is unable, through no fault of the permittee, to issue a new permit before the expiration date of this permit, the terms and conditions of this permit are automatically continued and remain fully effective and enforceable.

2. Entry and Access

The permittee shall allow the Department, consistent with 7 Del. C., Chapter 60, to:

- a. Enter the permitted facility.
- b. Inspect any records that must be kept under this permit.
- c. Inspect any facility, equipment, practice, or operation permitted or required by this permit.
- d. Sample or monitor for the purpose of assuring permit compliance, any substance or any parameter at the facility or land application site.

3. Provide Information

The permittee shall furnish to the Department within a reasonable time, any information requested, including copies of records, which may be used by the Department to determine whether cause exists for modifying, revoking, reissuing, or terminating the permit, or to determine compliance with the permit or Part III, (B), of the Guidance and Regulations Governing the Land Treatment of Wastes.

4. Transfer of Ownership or Control

This permit shall be transferable to a new owner or operator provided that the permittee notifies the Department by requesting a minor modification of the permit before the date of transfer and provided that the transferee shows evidence of a legal right to use the site and is otherwise in compliance with all applicable provisions of the Department's Guidance and Regulations Governing the Land Treatment of Wastes.

5. Operation of Facility

The permittee shall at all times properly maintain and operate all structures, systems, and equipment for treatment, control and monitoring, which are installed or used by the permittee to achieve compliance with 7 Del. C., Chapter 60, this permit, or Part III, (B), of the Guidance and Regulations Governing the Land Treatment of Wastes.

6. Permit Revocation and Modification

a. After notice and opportunity for a hearing, this permit may be modified or revoked in whole or in part during its term for causing including, but not limited to, the following:

- 1) Violation of any terms or conditions of this permit;
- 2) Obtaining this permit by misrepresentation or failure to disclose fully all of the relevant facts;
- 3) Any change in operating conditions that requires either a temporary or permanent permit modification; or
- 4) If the Department finds that the public health, safety or welfare requires emergency action, the Department shall incorporate findings in support of such action in a written notice of emergency revocation issued to the permittee. Emergency revocation shall be effective upon receipt by the permittee. Thereafter, if requested by the permittee in writing, the Department shall provide the permittee a revocation hearing and prior notice thereof. Such hearings shall be conducted in accordance with 7 Del. C., Chapter 60.

b. The Department may revoke this permit if the permittee violates any permit condition, any provisions of Part III, (B), of the Guidance and Regulations Governing the Land Treatment of Wastes, or fails to pay applicable Department fees.

7. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation.

8. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any

infringement of Federal, State or local laws or regulations.

9. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application or any provision of this permit to any circumstances, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

10. Compliance Required

The permittee shall comply with all conditions of the permit.

11. Reopener

In the event that the Part III, B, of the Guidance and Regulations Governing the Land Treatment of Wastes or applicable Federal Regulations are revised, this permit may be reopened and modified accordingly after notice and opportunity for a public hearing.

Part III

A. SPECIAL CONDITIONS

1. Supersedes Previous Permit

This permit supersedes State Permit No. DM 0008/93C, effective June 1, 2004.
2. The Facility must comply with the Federal Code of Regulations, Title 40, Part 503, "Standards for the Use and Disposal of Sewage Sludge" in the production, distribution and management of the sludge products.
3. For contractors who may utilize more than 100 tons of sludge product per year, a plan must be submitted to the Department which addresses the following:
 - a. The end use(s) of the material
 - b. Maximum application rates
 - c. Total amount of material to be utilized
 - d. Storage practices
 - e. Transportation methods
4. The permittee shall maintain a log of all persons that receive more than ten (10) cubic yards of sludge product material on an annual basis. At minimum this log shall include the name of the purchaser, the amount purchased, the date of the purchase, and the proposed end use. This log shall be maintained in accordance with Part I, E. 3 of this permit.
5. Product literature sheets, as submitted to the Department in the permit application, shall be distributed to each end-user.
6. The Department in accordance with the Department's Regulations Governing Solid Waste must approve utilization or disposal of sludge at landfill sites in writing before the sludge may be transported to the landfill.
7. Off-spec sludge compost that has not met the EQ criteria shall be transported only in accordance with a valid Delaware Waste Transporters Permit.
8. The permittee shall require the use of tarps or otherwise assure that all vehicles transporting sludge compost from the facility are properly sealed to retain the sludge compost in the vehicle during transportation.