



Maryland
Department of
the Environment

Larry Hogan, Governor
Boyd K. Rutherford, Lt. Governor

Ben Grumbles, Secretary
Horacio Tablada, Deputy Secretary

MAILED
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copy

December 5, 2017

Mr. Thomas Fantom, Project Manager
Veolia Water North America-Central, LLC
(Operating as the Baltimore City Composting Partnership)
5800 Quarantine Road
Baltimore, MD 21226

Dear Mr. Fantom:

Enclosed is Maryland Sewage Sludge Utilization (SSU) Permit No. **2017-SCF-1206**, which is issued in accordance with your renewal modification application of August 25, 2017, and all subsequent revisions and addenda, including your most recent submittal, dated September 25, 2017.

Please note that this permit is subject to the enclosed terms and conditions. This permit may be appealed by filing a written request for a hearing within thirty (30) calendar days of receipt of this permit. The request should be addressed to Ms. Hilary Miller, Director, Land and Materials Administration, at the Department's address. You will subsequently be contacted regarding a hearing date. All permit hearings will be conducted in accordance with the Administrative Procedure Act. If no appeal is received within the specified time period, this will constitute acceptance of the terms and conditions of this permit.

If you have any questions, please call Mr. Nazeeh A. Freij, Lead, Treatment and Monitoring Unit at (410) 537-3948.

Sincerely,

John C. Sullivan III
Program Manager
Resource Management Program

Enclosure

cc: Oxiris Barbot, MD, Baltimore City Health Department (w/encl.)
Evelyn Rodriguez, MD, Baltimore City Health Department (w/encl.)
Tracy Moffatt, Baltimore City Environmental Engineering Section (w/encl.)
Hilary Miller
Brian Coblenz (w/encl.)

MARYLAND DEPARTMENT OF THE ENVIRONMENT



Larry Hogan
Governor

Land and Materials Administration • Resource Management Program
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Ben Grumbles
Secretary

Sewage Sludge Utilization Permit Number: 2017-SCF-1206

ISSUE DATE: December 5, 2017

EXPIRATION DATE: December 4, 2027

Issued to:

Veolia Water North America-Central, LLC (Operating as the Baltimore City Composting Partnership)

Authorizing:

The composting and distribution of the treated sewage sludge as specified in this permit.

At:

Baltimore City Composting Facility located at 5800 Quarantine Road in Baltimore City, Maryland.

This permit is renewed and modified pursuant to the provisions of Title 9 of the Environment Article, Annotated Code of Maryland, and regulations promulgated thereunder, and is subject to the attached terms and conditions, and compliance with all applicable laws and regulations.

Hilary Miller, Director
Land and Materials Administration

Part I: Referenced Documents

Permit application, plans, and specifications submitted to the Department:

1. Sewage Sludge Utilization (SSU) Treatment Permit Application and supporting documents submitted by Baltimore City Composting Partnership, dated September 20, 1985 and received on September 24, 1985.
2. Additional SSU Treatment Permit Application documents and plans entitled, "Permit Application to Construct a Sewage Sludge Composting Facility at Hawkins Point in the City of Baltimore" submitted by Martin Marietta Environmental Systems (4 volumes and 9 appendices), dated November 1985 and received on November 12, 1985.
3. Engineering plans for the facility (67 sheets) submitted by Metcalf & Eddy Services, Inc., dated August 1986 and received on August 11, 1986.
4. Operations and Maintenance (O&M) Manual submitted by Metcalf & Eddy Services, Inc., received on November 13, 1986.
5. Groundwater monitoring plans submitted by Metcalf & Eddy Services, Inc., dated December 12, 1987 and December 31, 1986 and received on December 26, 1986 and January 5, 1987, respectively.
6. SSU Treatment Permit Modification Application for six-month trial of 7-day acceptance of sewage sludge submitted by Metcalf & Eddy Services, Inc., dated and received on May 12, 1987.
7. Temperature probe locations submitted by Metcalf & Eddy Services, Inc., dated July 1, 1987 and received on July 2, 1987.
8. SSU Treatment Permit Renewal Application submitted by Metcalf & Eddy Services, Inc., dated November 16, 1987 and received on December 1, 1987.
9. SSU Distribution Permit Application and supporting documents including the facility's O&M Manual submitted by Baltimore City Composting Partnership, dated August 22, 1988 and received on August 30, 1988.
10. Additional documents consisting of revised limited distribution labeling information submitted by Baltimore City Composting Partnership, dated September 9, 1988 and received on September 12, 1988.
11. SSU Distribution Permit Modification Application and supporting documents submitted by Baltimore City Composting Partnership, dated September 25, 1989 and received on August 29, 1989.

12. Additional documents including revised general labels submitted by Baltimore City Composting Partnership, dated October 30, 1989 and received on November 3, 1989.
13. Revised general labels submitted by Baltimore City Composting Partnership, received on November 15, 1989.
14. SSU Permit Modification Application for composting lime stabilized Back River Wastewater Treatment Plant (WWTP) sewage sludge submitted by Metcalf & Eddy Services, Inc., dated and received on December 7, 1989.
15. SSU Permit Modification Application for composting of raw Back River WWTP sewage sludge, processing on weekends, and use of sliding scale with percent solids determining amount of sewage sludge accepted by facility, submitted by Metcalf & Eddy Services, Inc., dated January 5, 1990 and received on January 9, 1990.
16. Fire prevention and control plan submitted by Metcalf & Eddy Services, Inc., dated April 4, 1990 and received on April 5, 1990.
17. SSU Treatment Permit Renewal Application submitted by Metcalf & Eddy Services, Inc., dated March 20, 1991 and received on March 22, 1991.
18. SSU Distribution Permit Renewal Application submitted by Baltimore City Composting Partnership, dated March 20, 1991 and received on March 25, 1991.
19. SSU Treatment Permit Modification Application for composting raw Patapsco WWTP sewage sludge submitted by Metcalf & Eddy Services, Inc., dated July 31, 1991 and received on August 6, 1991.
20. SSU Distribution Permit Modification Application submitted by Baltimore City Composting Partnership, dated August 12, 1991 and received on August 13, 1991.
21. Revised limited and general distribution labels submitted by Baltimore City Composting Partnership, dated September 26, 1991 and received on September 27, 1991.
22. Revised compost distribution labeling submitted by Baltimore City Composting Partnership, dated June 18, 1992 and received on June 22, 1992.
23. SSU Distribution Permit Modification Application, compost labeling information and supporting documents submitted by Baltimore City Composting Partnership, dated August 19, 1992 and received on September 3, 1992.
24. Revised compost labeling and marketing information submitted by Baltimore City Composting Partnership, dated April 20, 1993 and received on April 29, 1993.
25. SSU Treatment Permit Modification Application for composting period to be reduced to 12 days if operating on weekends submitted by Metcalf & Eddy Services, Inc., dated June 24, 1993 and received on June 29, 1993.

26. Additional documents pertaining to compost product labeling submitted by Baltimore City Composting Partnership, dated December 9, 1993 and received on December 10, 1993.
27. SSU Distribution Permit Renewal Application submitted by Baltimore City Composting Partnership, dated August 10, 1994 and received on August 12, 1994.
28. Compost labeling and application rates information submitted by Baltimore City Composting Partnership, dated and received on November 28, 1996.
29. SSU Treatment Permit Modification Application to utilize wood as bulking agent amendment submitted by Professional Services Group, Inc., dated January 22, 1997 and received on January 30, 1997.
30. Proposed sewage sludge tonnage vs. percent solids acceptance chart submitted by Professional Service Group, Inc., dated February 5, 1997 and received on February 6, 1997.
31. Proposed analytical testing program submitted by Professional Services Group, Inc., dated March 1997 and received on March 21, 1997.
32. SSU Treatment Permit Renewal Application submitted by professional Services Group, Inc., dated December 10, 1997 and received on December 12, 1997.
33. SSU Treatment Permit Modification Application to allow for the acceptance of sewage sludge below 18% solids, include the use of carbon ash as an approved bulking agent, and allow a minimum in-feed mixture content of 37% total solids submitted by Professional Services Group, Inc., dated March 30, 1998 and March 3, 1999 and received on April 6, 1998 and March 8, 1999, respectively.
34. Revisions to the O&M Manual in support of requests for minor permit modifications submitted by Professional Services Group, Inc., dated March 18, 1999 and received on March 19, 1999.
35. SSU Distribution Permit Renewal Application and supporting documents including revised distribution labeling information submitted by Baltimore City Composting Partnership, dated September 7, 1999 and received on September 9, 1999.
36. Maryland Department of Agriculture compost certificate of registration submitted by Baltimore City Composting Partnership, dated April 5, 2000 and received on April 10, 2000.
37. SSU treatment Permit Renewal Application submitted by US Filter, Operating Services, dated December 15, 2000 and received on December 19, 2000.
38. Letter requesting the addition of ground brush as an approved bulking agent submitted by US Filter, Operating Services, dated January 24, 2001 and received on January 30, 2001.

39. Letter explaining the permittee organizational structure and its association to the partnership submitted by US Filter, Operating Services, dated March 22, 2001 and received on April 4, 2001.
40. Additional material including an affidavit of ownership, proof of both companies good standing as Maryland chartered companies, a performance bond, and update to the facility's O&M Manual submitted by US Filter, Operating Services, dated May 31, 2001 and received on June 1, 2001.
41. Revised SSU Treatment Permit Renewal Application submitted by US Filter, Operating Services, dated June 6, 2001 and received on June 11, 2001.
42. SSU Treatment Permit Renewal Application submitted by US Filter, Operating Services, dated January 13, 2004 and received on January 22, 2004.
43. Letter requesting the use of spent mushroom compost (SMC) to augment or replace the blanket of compost on curing piles submitted by US Filter, Operating Services, dated January 22, 2004 and received on January 28, 2004.
44. Letter stating that US Filter, Operating Services, will be known as Veolia Water North America, Operating Services, submitted by Veolia Water North America, dated February 4, 2004 and received on March 5, 2004.
45. SSU Distribution Permit Renewal Application submitted by Baltimore City Composting Partnership, dated March 14, 2005 and received on March 23, 2005.
46. Revised SSU Distribution Permit Renewal Application submitted by Mercot II, Inc. and M&E II, Inc. (Operating as the Baltimore City Composting Partnership), dated April 15, 2005 and received on April 20, 2005.
47. SSU Treatment Permit Renewal Application submitted by Mercot II, Inc. and M&E II, Inc. (Operating as the Baltimore City Composting Partnership), dated February 20, 2007 and received on March 13, 2007.
48. SSU Composting and Distribution Permit Renewal Application submitted by Mercot II, Inc. and M&E II, Inc. (Operating as the Baltimore City Composting Partnership), dated June 11, 2010 and received on June 14, 2010.
49. Workers' Compensation Insurance Policy submitted by Mercot II, Inc. and M&E II, Inc. (Operating as the Baltimore City Composting Partnership), dated and received on September 17, 2010.
50. Revised SSU Composting and Distribution Permit Renewal Application submitted by Mercot II, Inc. and M&E II, Inc. (Operating as the Baltimore City Composting Partnership), dated October 12, 2010 and received on October 18, 2010.

51. Updated O&M Manual submitted by Merscot II, Inc. and M&E II, Inc. (Operating as the Baltimore City Composting Partnership), dated July 21, 2011 and received on July 28, 2011.
52. Supplemental documents pertain to the pending SSU Permit Renewal Application submitted by Merscot II, Inc. and M&E II, Inc. (Operating as the Baltimore City Composting Partnership), dated August 16, 2017 and received on August 18, 2017.
53. SSU Permit Renewal and Modification Application submitted by Veolia Water North America-Central, LLC, dated and received on August 28, 2017.
54. Revised SSU Permit Renewal Application submitted by Merscot II, Inc. and M&E II, Inc. (Operating as the Baltimore City Composting Partnership), dated August 25, 2017 and received on August 31, 2017.
55. Revised compost distribution label submitted by Merscot II, Inc. and M&E II, Inc. (Operating as the Baltimore City Composting Partnership), dated and received by email on September 12, 2017.
56. Copy of first amendment to sewage sludge disposal agreement of March 4, 2008, between Baltimore City Government, represented by the Northeast Maryland Waste Disposal Authority, and the composting facility owner/operator Veolia Water North America-Central, LLC, submitted by Veolia Water North America-Central, LLC, dated June 26, 2013 and received by email on September 25, 2017.

Part II: Facility Specific Conditions (Applicable to Sewage Sludge Composting and Distribution from In State Facility)

A. Composting Authorization:

1. This permit authorizes only the composting of sewage sludge to be classified as Class A sewage sludge at the Baltimore City Composting Facility (the "Facility") located at 5800 Quarantine Road, Baltimore City, Maryland as specified in this facility's SSU Permit Application and its supporting documents referenced in Part I of this permit.
2. This permit authorizes only the composting of sewage sludge from the Back River and the Patapsco Wastewater Treatment Plants to be classified as Class A sewage sludge with respect to pathogens in accordance with Class A-Alternative 5 of the Code of Federal Regulations 40 CFR 503.32(a)(7). The permittee shall ensure that the sewage sludge generated by the Facility is treated by a Process to Further Reduce Pathogens (PFRPs) by:
 - Composting: utilizing the within-vessel composting method. The permittee shall ensure that the sewage sludge composting requirements

are achieved as presented and approved in the supplemental operation document dated August 16, 2017 and received on August 18, 2017. The permittee shall ensure that the sewage sludge composting requirements are achieved as follows:

- a. The temperature of the sewage sludge compost shall be maintained throughout each constructed regiment/section in the compost reactor at 55°C (131°F) or higher for three (3) consecutive days or longer;
- b. The composting process shall be followed by a minimum of eleven (11) consecutive days during which temperature throughout the mass of the sewage sludge profile is measured at over 40°C (104°F) with an average temperature of over 45°C (113°F);
- c. The piles including, at a minimum, the pile designation and construction date shall clearly be marked for identification throughout the treatment process;
- d. Records shall be maintained showing the amount of sewage sludge utilized in constructing each within-vessel regiment/section, the amount and type of bulking agent mixed with the sewage sludge, the date of construction, daily oxygen readings, daily temperature readings, date of cell tear-down, and descriptions of problems encountered and their solutions;
- e. Once the sewage sludge piles achieved the pathogen and vector attraction reduction requirements, a minimum of thirty (30) days curing period shall be achieved prior to the distribution of the finished compost so that the piles are no longer self-heating, and to allow for further reduction of volatile solids and odor potential;
- f. The finished compost and curing piles shall be stored in accordance with this facility's SSU Permit Application and its supporting documents referenced in Part I of this permit. The finished compost and curing piles shall be limited to a maximum height of 12 feet; and
- g. Microbiological testing shall be conducted at the end of the curing process when compost is prepared for distribution. Compost which is stored on site for extended periods of time until it can be distributed shall be tested for compliance with the microbiological limits when it is to be disposed.

B. Sampling and Analysis Requirements:

1. The permittee shall analyze the Class A sewage sludge compost for constituents specified in Code of Maryland Regulations (COMAR) 26.04.06.06A(2). Representative samples of the Class A sewage sludge compost that is generated by the Facility and is intended for distribution in Maryland shall be collected individually from the cured pile(s). A composite of the collected samples shall be formed and analyzed for the constituents listed in this Site Specific Condition in accordance with

COMAR 26.04.06.06B at a frequency of once a month.

2. The sampling, sample handling, and analyses of analytical constituents required in this permit shall be performed in accordance with Code of Federal Regulations 40 CFR Part 503, which requires that testing for inorganic constituents be done in accordance with the most recent edition of the "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846. This publication lists procedures for sample handling and preservation, and categorizes the inorganic analytes as aqueous and solid samples. Aqueous samples are required to be preserved, while solid samples do not need to be preserved. The SW-846 does not define what is considered an aqueous sample as opposed to a solid sample. Sewage sludge sample that is less than one percent solids is considered to be a liquid. The liquid sample may be preserved in the lab, and any cooling of the sample is optional when it comes to analysis for the inorganic analytes.
3. All test results for nutrients, metals, and PCBs shall be reported in units of milligrams per kilogram (mg/kg), parts per million (ppm), or percent (%) on a dry weight basis.
4. All sample analyses shall be performed by an independent laboratory or another laboratory acceptable by the Department, using standards, procedures, and methods that are acceptable to the Department.
5. If analytical results for samples collected from the sewage sludge generated at this facility exceed the allowable levels or other health standard, the permittee shall notify the Department at (410) 537-3315 within 24 hours of receipt of the analytical data indicating this occurrence.
6. Upon detection of an exceedance of an allowable level or other health standard, the permittee shall investigate this exceedance within 48 hours following notification of the permittee of the exceedance of the standard by the analytical laboratory performing the original analysis of the sample which indicated the exceedance. The permittee shall also reanalyze within 7 calendar days the sewage sludge that exceeded the allowable level or other health standard to verify the initial detection.

C. Distribution Authorization:

1. The permittee is authorized to distribute the Class A sewage sludge compost as specified in this facility's SSU Permit Application and its supporting documents referenced in Part I of this permit.
2. This permit authorizes only the distribution in Maryland of composted classified as Class A sewage sludge, known as "ORGRO High Organic

Compost”, generated at the Facility that has been composted in accordance with Site Specific Condition A.2 of this permit.

3. Class A sewage sludge intended for distribution in Maryland shall not exceed the following concentrations of constituents on a dry weight basis:

<u>Constituent</u>	<u>Concentration</u> <u>(parts per million)</u>
Arsenic	41
Cadmium	39
Copper	1500
Lead	300
Mercury	17
Nickel	420
Selenium	100
Zinc	2800
PCBs	10

4. Composted sewage sludge shall be accompanied by labeling information approved in writing by the Department. Any changes to these labels shall be approved in writing by the Department prior to implementation. The label for composted sewage sludge containing more than 40,000 ppm iron on a dry weight basis shall warn against using the compost on pasture land.
5. Any contract entered into between the permittee or its agents and dealers to distribute composted sewage sludge shall contain provisions which assure compliance with all the conditions of this permit including specific provisions requiring a distribution log of all initial sales of the product made by the permittee and proper labeling of the material.

D. Hours of Construction and Operation:

1. The permittee may construct and operate this facility during 24 hours a day. The hours and days of operation may be changed upon written approval by the Department. For approval, a letter requesting the change of hours and a letter from the appropriate local government office stating

that the change is consistent with local zoning and land use requirements must be submitted with such a request.

2. A statement of the days and hours of operation shall be posted at the entrance to this facility.

E. Transportation Authorization:

1. This permit authorizes only the transportation of sewage sludge generated by the Back River and Patapsco Wastewater Treatment Plants to the Baltimore City Composting Facility.
2. The permittee shall not transport sewage sludge generated by the Back River and Patapsco Wastewater Treatment Plants to destinations other than authorized by this permit, including out-of-State, without first obtaining a separate SSU Permit issued by the Department.

Part III: General Conditions (Applicable to Sewage Sludge Composting and Handling-Distribution From In State Facility)

A. Property Rights:

The issuance of this permit does not intend to convey any property rights in either real or personal property, or any exclusive privilege or franchise, 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.

B. Suspension or Revocation:

1. This permit may be suspended or revoked upon a final, unreviewable determination that the permittee lacks, or is in violation of, any federal, State or local approval necessary to conduct the activity authorized by this permit.
2. The Department may suspend, revoke, or modify this permit in whole or part, if the Department finds that:
 - a. The application contained false or inaccurate information;
 - b. There has been a substantial deviation from:
 - i. The documents accepted by the Department as part of this permit application; or
 - ii. Any requirement established by the Department;
 - c. A representative of the Department has been denied entry to any area in which activities regulated by this permit are conducted or to any documents required to be maintained by this permit;
 - d. There is or has been a violation of the terms and conditions of this permit or any applicable State law or regulation; or
 - e. There is any other good cause.
3. The provisions of this permit are severable. If any provision of this permit shall be held invalid for any reason, the remaining provisions shall remain in full force and effect. If the application of any provision of this permit for any circumstance is held invalid, its application to other circumstances shall not be affected.

C. Civil or Criminal Liability:

Nothing in this permit shall be construed to preclude the institution of any legal action nor relieve the permittee from civil or criminal responsibilities and/or penalties for non-compliance with Title 9 of the Environment Article, Annotated Code of Maryland, or any federal, local or other State laws or regulations.

D. Facility Operations:

1. The permittee shall operate this facility in accordance with this facility's SSU Permit Application and its supporting documents referenced in Part I of this permit.
2. The permittee shall operate this facility in a manner as to prevent public health hazards, environmental degradation, or health nuisance conditions.
3. The permittee shall clearly identify any sewage sludge that fails to meet the standards established in this permit and identified in this facility's SSU Permit Application and its supporting documents referenced in Part I of this permit. The permittee shall either recycle this sewage sludge into the process for further composting or remove and handle this sewage sludge in accordance with a separate SSU Permit, and the following:
 - a. The sewage sludge generated shall not be utilized at this facility without a SSU Permit issued by the Department that authorizes all sewage sludge utilization activities; and
 - b. The permittee shall submit to the Department a written report within five working days following the removal of any sewage sludge generated during emergency conditions that did not meet the treatment standards set by this permit. The written report shall include, but not limited to, the dates the sewage sludge was generated and removed from this facility, the quantity of sewage sludge removed, the destination and final utilization of the sewage sludge; and actions implemented to handle the sewage sludge that did not meet the treatment standards set by this permit.
4. Composted sewage sludge authorized for distribution in Maryland may not be mixed with other materials without a SSU Permit issued by the Department that authorizes this activity.
5. The permittee shall control the dispersion of odors, prevent infestation by insects, rodents, or other vectors at this facility in accordance with this facility's SSU Permit Application and its supporting documents referenced

in Part I of this permit. If applicable, the permittee shall maintain the sewage sludge loading and unloading areas in a sanitary condition, including washing and cleaning, as is necessary to control nuisance odors off-site. In the event of odor problems, the permittee shall take immediate steps as directed by the Department to alleviate the condition. The immediate steps may include, but are not limited to, additional liming and obtaining and maintaining a SSU Permit to transport the sewage sludge from this facility. Such a permit must be obtained before the sewage sludge may be transported from this facility.

6. The permittee shall control public access to this facility.
7. The permittee shall maintain a 1,000 foot buffer zone between the sewage sludge composting area and the nearest inhabited off-site dwelling.
8. The permittee shall inspect all structural components of this composting facility for degradation and damages and repair or replace as required.
9. The permittee shall employ additional sediment and erosion control measures at this facility, if required by the Department.
10. The permittee shall regularly wash and maintain all equipment used at this facility in a clean manner in order to avoid movement of sewage sludge or composted sewage sludge from this facility. The permittee shall maintain this facility and the surrounding road surfaces in a clean manner at all times.
11. The permittee shall maintain all equipment used for controlling dust generated during the sewage sludge composting process in good working condition at all times. Should failure in the system occurs, the permittee shall contact the Department to report the situation and the permittee's plan of action.
12. The permittee shall ensure that the construction, operation, and maintenance of any required air quality and odor control systems are in compliance with all applicable rules and regulations and valid permits issued by the Department. Should any of these systems fail or shutdown for a long period of time, other than for routine maintenance; the permittee shall contact the Department to report the situation and the permittee's plan of action.
13. The permittee shall repair or replace equipment as required. The permittee shall obtain substitute equipment when breakdown or maintenance renders essential operating equipment inoperative for a period in excess of 24 hours during days of operation.

14. Any modification to this facility or its operating plans must be approved in writing by the Department prior to implementation. Modifications include, but are not limited to, any changes that alter a significant structural feature, operational procedure, element of design, or type of equipment described in this facility's SSU Permit Application and its supporting documents referenced in Part I of this permit.

E. Air Quality Control:

If applicable, the permittee shall comply with all of the air emissions standards, provisions, and requirements set forth in this facility's Operating Permit issued by the Department's Air and Radiation Administration.

F. As-Built Plans:

The permittee shall submit to the Department a certified copy of the as-built engineering plans and specifications after completion of the construction of structures as specified in this facility's SSU Permit Application and its supporting documents referenced in Part I of this permit.

G. Ground and Surface Water Monitoring Plan:

1. Except for a facility that is located within the perimeter of a wastewater treatment plant, the permittee shall monitor the ground and surface waters of the State around and beneath this facility in accordance with a Ground and Surface Water Monitoring (G&SWM) Plan approved by the Department.
2. The permittee shall conduct the G&SWM Plan in accordance with the following:
 - a. The permittee shall arrange for a qualified groundwater scientist to sample, or to oversee qualified environmental technicians who sample the wells in accordance with the following schedule:

Twice annually samples shall be collected and analyzed for the life of this facility for the following constituents and their Practical Quantitation Limits (PQL): pH, alkalinity, ammonia nitrogen, nitrate nitrogen, nitrite nitrogen, chloride, specific conductance, total dissolved solids, total coliforms, fecal coliforms, fecal streptococcus, total phosphorus, total organic carbon, calcium, sulfate, turbidity, barium, cadmium, copper, chromium, mercury, nickel, lead, selenium, zinc, iron, and chemical oxygen demand. The Department may approve an alternative list of constituents or

an alternative PQL;

- b. The sampling, sample handling, analyses and reporting of analytical parameters shall be performed in accordance with a G&SWM Plan approved by the Department;
- c. A qualified independent laboratory certified for water quality analysis by the Department or which is otherwise acceptable to the Department shall perform the analyses;
- d. A qualified groundwater scientist or professional shall evaluate the results and advise the permittee of any changes in water quality or any exceedance of the State and Federal Maximum Contaminant Level (MCL), Action Level or other health standard;
- e. If analytical results for samples collected from any wells associated with the composting facility or surrounding properties exceed MCL, Action Level or other health standard for the first time, the permittee shall notify the Department in writing within 24 hours of receipt of the analytical data detecting this occurrence. Thereafter, if there is any significant increases above the MCL, Action Level, or other health standard, the permittee shall notify the Department in writing within 24 hours of receipt of the analytical data detecting this occurrence;
- f. Upon detection of the exceedance of an MCL, Action Level or other health standard for the first time, the permittee shall immediately resample the monitoring point(s) in which the standard was exceeded to verify the initial detection. This resampling shall occur as soon as possible, and no later than 30 days following notification of the permittee of the exceedance of the standard by the analytical laboratory performing the analysis of the sample which indicated the exceedance;
- g. Upon detection of the exceedance of an MCL, Action Level or other health standard after the resampling has taken place, the permittee shall immediately provide the Department with a plan of action to investigate and verify the source of contamination, and solutions to stop further contamination;
- h. All "J" values must be reported. "J" values are analytical results that are below the PQL but can be estimated; and
- i. The requirements of 40 CFR §258 subpart E concerning groundwater monitoring and remediation shall be followed to the satisfaction of the Department.

H. Liquids Management:

1. Under no circumstances may any collected contaminated liquids be discharged by any means, except to the sanitary sewerage system or any permitted composting facility, without written authorization from the Department. Any discharge to a sanitary sewerage system shall comply with the applicable provisions of the State's pre-treatment program, as described in COMAR 26.08.08.
2. Stormwater management at this facility shall be in accordance with the requirements of COMAR 26.17.02. Any point source discharge of pollutants to waters of the State is prohibited unless permitted by the Department.

I. Pollution Monitoring and Control Device Requirements:

1. All pollution control and ground and surface water monitoring systems (including stormwater management and sediment control systems) shall be installed in accordance with the manufacturer's recommendations and plans and specifications identified in this facility's SSU Permit Application and its supporting documents referenced in Part I of this permit. All pollution control and ground and surface water monitoring systems shall remain operational and shall be maintained in accordance with the provisions of this facility's SSU Permit Application and its supporting documents referenced in Part I of this permit.
2. Any incidence of damage to this facility's monitoring or pollution control systems shall be reported to the Department at (410) 537-3315 within two hours of the incident, or within two hours of the discovery of the damage if the damage occurred outside of working hours. All repairs needed to correct the damage shall be completed as soon as practical or as specified by the Department.
3. During construction and operation of this facility, the sediment and stormwater basins shall be cleaned out whenever (a) a clean-out elevation is reached; (b) construction is completed; (c) the amount of sediment reaches 50% capacity, and/or (d) as specified by the approved Sediment and Erosion Control Plan.

J. Roads:

The permittee shall provide all-weather access roads to this facility and to all required pollution control and monitoring systems and devices. Roads shall be maintained in such a manner so as to prevent the tracking of sewage sludge or soil

onto any public road and/or to cause a public nuisance. If necessary, vehicles shall be cleaned prior to leaving this facility. Additional actions or facilities may be required at the discretion of the Department in order to control tracking of sewage sludge or soil.

K. Controlled Access:

Access to this facility shall be controlled at all times. Gates, fencing, and other ingress/egress controls around the perimeter of this facility shall be adequate to control access when this facility is not in operation. All gates shall be locked when this facility is unattended. Access shall be limited to those times when authorized personnel are on duty at this facility.

L. Recordkeeping and Reporting Requirements:

1. The permittee shall maintain all records required by this permit for a period of five years after the generation of the records. The records shall include, but not limited to, the following:
 - a. **An Annual Report.** The permittee shall submit to the Department an Annual Report regarding the activities of this facility for each calendar year ending December 31. The permittee shall submit the Annual Report to the Department by **February 15** of the following year on the form provided by the Department. The Annual Report shall include, but not limited to:
 - i. The sources, types, and quantity including documentation, of sewage sludge received and composted at this facility;
 - ii. The sewage sludge composting methods;
 - iii. Process monitoring and operating information demonstrating that the composted sewage sludge meets the requirements as specified in this permit;
 - iv. The quantity, including documentation, of composted and uncomposted sewage sludge transported or distributed from this facility;
 - v. The dates of transportation and distribution of the composted and uncomposted sewage sludge from this facility;
 - vi. The destinations and final utilization of the composted and uncomposted sewage sludge from this facility;

- vii. The time periods during which this facility is inoperational;
 - viii. Descriptions of problems encountered and their solutions;
 - ix. Other related information regarding this facility as required by this permit; and
 - x. Other information requested by the Department;
- b. **An Annual Generator Report.** The permittee shall submit to the Department an Annual Generator Report for each calendar year ending December 31. The permittee shall submit the Annual Generator Report to the Department by **January 31** of the following year on the form provided by the Department;
- c. **Sewage Sludge Analysis Reports.** The permittee shall submit to the Department Sewage Sludge Analysis reports for the sewage sludge chemical quality for constituents listed in COMAR 26.04.06.13F(1) or an alternate list approved by the Department. The Sewage Sludge Analysis reports shall be submitted to the Department in accordance with a frequency as specified in COMAR 26.04.06.13F(2), or an alternate frequency approved by the Department. The Sewage Sludge Analysis reports shall include, but not limited to, a summary of the results of laboratory analysis including copies of all analysis of chemical quality of the composted sewage sludge generated at this facility for all constituents listed in this permit. In the event that a constituent exceeded the allowable level, a discussion or explanation of the exceedance shall be included; and
- d. **A Semiannual Water Quality Report.** If required, the permittee shall submit to the Department a Semiannual Water Quality Report **within ninety days** of the close of every first and third calendar quarters unless an alternative schedule is specified in the G&SWM Plan approved by the Department. Sampling shall occur during the period between **January through March and July through September** unless an alternative schedule is specified in the G&SWM Plan approved by the Department. The Semiannual Water Quality Report shall include, but not limited to:
- i. A summary of the results of laboratory analysis including copies of all analysis of water quality of all constituents listed in this permit. In the event that a constituent exceeded the allowable level, a discussion or explanation of the exceedance shall be included;

- ii. A complete copy of the laboratory data and the qualified groundwater scientist or professional's interpretive findings shall be included in the water quality report referenced in this permit;
 - iii. All data for each well must be summarized and presented in time series format. The data for each well must be presented in a spreadsheet so that the water quality data for each parameter for each well can be observed simultaneously. The discussion should emphasize historical trends in the data;
 - iv. A statistical analysis methods in evaluating groundwater monitoring data;
 - v. A copy of the most current topographic map generated by a survey performed as required in this permit shall be included in each semiannual report on water quality and shall depict the location of all monitoring wells and piezometers in existence at the time of the survey; and
 - vi. A copy of a current groundwater contour map depicting the location of all monitoring wells from which groundwater data is collected shall be included in each semiannual report on water quality. Multiple aquifers shall be depicted on separate groundwater contour maps.
2. The permittee shall submit all reports required by this permit for each year this permit is in effect to:

**Maryland Department of the Environment
Land and Materials Administration
Resource Management Program
1800 Washington Boulevard, Suite 610
Baltimore, Maryland 21230-1719**

M. Transportation:

1. The permittee is authorized to transport sewage sludge as specified in the SSU Permit Application and its supporting documents referenced in Part I of this permit.
2. Liquid sewage sludge (percent solids less than 15%) may be pumped and transported by pipeline. If liquid sewage sludge is transported by truck,

rail, or barge, the permittee shall use closed watertight vessels such as tank trucks and railroad tank cars.

3. Sewage sludge cake (percent solids 15% to 35%) may be transported in watertight boxes, such as dump trucks or dump trailers properly sealed to prevent leaks, or cement transport type vehicles. When sewage sludge cake is transported in dump trucks or dump trailers, the permittee shall comply with the following standards:
 - a. The trucks shall be equipped with splash guards firmly attached horizontally at the front and rear of the trailer;
 - b. Each splash guard shall cover at least 25% of the trailer's open area; and
 - c. A minimum two feet of freeboard shall be maintained between the sewage sludge and the top of the trailer unless the top of the trailer is completely sealed.
4. Dried sewage sludge (percent solids greater than 35%) may be transported in open boxes, such as dump trucks, which are properly sealed to prevent leakage. The permittee shall cover the trucks with tarps or the equivalent.
5. If sewage sludge with percent solids of 20 to 35% is transported in Maryland, the permittee transporting the sewage sludge may elect to modify the manner in which the sewage sludge is transported as follows:
 - a. The permittee shall ensure that the transporting trucks are equipped with metal splash guards firmly welded horizontally to the front and rear body of the trailer. Each splash guard shall cover at least four feet of the length of the trailer. No gaps through which sewage sludge may escape shall exist between the splash guards and the trailer body; and
 - b. A medium to heavy-duty solid vinyl tarp shall cover the open area of the trailer and shall overlap the splash guards horizontally by a minimum of one foot. The tarp shall be drawn tightly across the top of the trailer and be firmly held in place with straps that are attached to ratchets bolted to the trailer. The tarp shall cover the top of the trailer so that there is no vertical gap through which sewage sludge may escape between the tarp and the sides of the trailer, or the tarp and the splash guards. A minimum of two feet of freeboard must still be maintained between the sewage sludge and the top of the transport vehicle if the hauler elects to use the shorter splash guard and tarp.

6. The permittee shall clean the transport vehicle(s) on site to prevent drag-out of dirt or sewage sludge onto public roads. In the event dirt or sewage sludge is tracked onto the roads, the permittee shall immediately initiate clean-up procedures.
7. The permittee shall have available in the cab of each transport vehicle(s) a copy of page one of this SSU Permit, and a copy of the sewage sludge analysis report that was submitted to the Department as part of the application for this permit.

N. Spill Control:

1. The permittee shall report to the Department, within one hour of becoming aware of its occurrence, any spills or unauthorized discharges of sewage sludge occurring either in transit or due to site conditions at either (410) 537-3315 during working hours, or at (866) 633-4686 during non-working hours.
2. In the event of a spill, the permittee shall ensure that cleanup procedures are initiated as soon as possible, but no later than two hours after becoming aware of the spill. The permittee shall complete the cleanup to the satisfaction of the Department.

O. Right of Entry:

The permittee shall ensure that the Secretary of the Maryland Department of the Environment, or the local health official, or their authorized representatives are permitted, at reasonable times and upon presentation of credentials to:

1. Enter upon the permittee's premises or where any records are required to be kept under the terms and conditions of this permit;
2. Have access to and copy any records required to be kept under the terms and conditions of this permit;
3. Inspect any collection, transport vehicles, composting, pollution management, or control facilities required under this permit; and
4. Obtain any photographic documentation or evidence.

P. Application for Renewal:

At least two calendar weeks before the expiration date of this permit, unless the Department has granted permission for a later date, the permittee shall submit an

application for a permit renewal or notify the Department of the intent to cease operating by the expiration date. In the event that a timely and complete permit renewal application has been submitted and the Department is unable, through no fault of the permittee, to issue a permit renewal before the expiration date of this permit, the terms and conditions of this permit are automatically continued and remain fully effective and enforceable until a new permit is issued or a determination is made on the status of the renewal application.

Q. Transfer of Permit or Ownership:

1. This permit is only valid for the permittee named and may not be transferred to another entity. In order for a new entity to become the permittee for this activity, the new entity must first obtain a new SSU Permit from the Department.
2. Within 30 days of any change in control or ownership of the property, the permittee shall provide the succeeding owner(s), by certified mail, with a copy of the owner's written authorization signed by the current legal owner(s), a copy of this permit, and notify the succeeding owner(s) of any outstanding permit noncompliance. At the same time, the permittee shall provide the Department with a copy of the notification.

R. Compliance:

1. The permittee shall comply with the terms and conditions of this permit, and with all applicable federal, local and State laws and regulations.
2. If for any reason the permittee does not comply or is unable to comply with any of the terms or conditions of this permit, the permittee shall notify the Department at (410) 537-3315 on the same day or on the next working day, following any noncompliance. Within five (5) working days after this notification, the permittee shall provide the Department with the following information in writing:
 - a. Description of the noncompliance, including dates, time, and type of noncompliance;
 - b. Cause of the noncompliance;
 - c. Anticipated time the noncompliance is expected to continue or if such condition has been corrected;
 - d. Steps taken by the permittee to correct the noncompliance; and
 - e. Steps to be taken by the permittee to prevent recurrence of the

noncompliance.

3. If the permittee discovers through any means, including notification by the Department, that a noncompliance with any condition of this permit has occurred, the permittee shall immediately take all necessary steps to eliminate the condition of noncompliance and to minimize the adverse impact on public health, safety, welfare, or the environment.
4. If the permittee discovers that a noncompliance with any condition of this permit has affected the public health, safety, welfare, or the environment, the permittee shall immediately notify the Department.

S. Severability:

If any provision of this permit shall be held invalid for any reason, the remaining provisions shall remain in full force and effect, and such invalid provision shall be considered severed and deleted from this permit.

T. Signatory Requirements:

All applications, request for modifications or transfer, renewal requests, reports, or information submitted to the Department shall be signed and verified in accordance with Section 1-201 of the Environment Article, Annotated Code of Maryland, by the permittee or authorized representative of the permittee as being true.

Sewage Sludge Utilization (SSU) Permit Annual Report

Reporting period ____ / ____ / ____ to ____ / ____ / ____

Permittee: _____ SSU Permit #: _____ Exp. Date: _____

Please use a separate report form for each SSU Permit. Questions or for additional information, please call the Department at (410) 537-3314. This report is due to the Department by **February 15** following each year the SSU Permit is in effect. Mail completed form to:

Maryland Department of the Environment
Land Management Administration
Resource Management Program
1800 Washington Blvd, Suite 610
Baltimore MD 21230-1719

Please check the applicable permit type and provide the required information on the established report form.

- Transportation Permit**
- Disposal or Alternative Utilization at a Municipal Landfill Permit**

Quantity of sewage sludge transported from the facility and its final utilization - Please use Table 2 on Page 3.

Destination Name: _____ County: _____
(where the sewage sludge is being transported to/disposed at)

Destination Address: _____

- Composting Facility Permit**
- Treatment Facility Permit**
- Energy Generation/Incineration Facility Permit**
- Marketing Permit**
- Storage Facility Permit**
- Distribution Facility Permit**

Facility Name: _____ County: _____

Facility Address: _____

Sources, types, and quantity of sewage sludge received to be composted/treated/ marketed/incinerated/stored - Please use Table 1 on Page 3 and use the origination facility(ies) as the "Sewage Sludge Source".

Quantity of sewage sludge transported from the facility and its final utilization - Please use Table 2 on Page 3 and use your facility as the "Sewage Sludge Source". For **Composting/Treatment Facilities**, please provide information on both composted/treated and untreated sewage sludge. For **Energy Generation/Incineration Facilities**, please provide information on both unincinerated sewage sludge and the ash generated by the facility and record the information separately.

Description of problems encountered and their solutions (including time periods which the facility was inoperational)

(please attach separate page if more space is needed)

- Innovative Permit
- Research Permit

Site Name: _____ County: _____

Site Address: _____

Please attach the current status/results of the project.

Sources, types, and quantity of sewage sludge utilized – Please use Table 1 on Page 3 and use the origination facility(ies) as the “Sewage Sludge Source”.

Quantity of sewage sludge transported from the site – Please use Table 2 on Page 3 and use your site as the “Sewage Sludge Source”. Please provide information on both utilized and unutilized sewage sludge.

Description of problems encountered and their solutions (including time periods which the project was inoperational) _____

(please attach separate page if more space is needed)

Tables Instructions:

1. **Source:** The permitted sewage sludge source(s) (Wastewater Treatment Plant, Lagoon, etc) as described above and also specified in Table 1 and Table 2. *Please use only 1 source per line.*
2. **Quantity:** List the quantity of sewage sludge received, transported, or distributed *in wet tons (WT)* as well as *dry tons (DT)*, as specified in Table 1 and Table 2. Total *WT* are tallied by weight tickets or converted from Gal to WT and DT. Use additional sheet or provide copy of records to support this information.
3. **% Solids:** List the *average percent solids* of sewage sludge at time of receiving, transportation, or based on recent sewage sludge analysis, as specified in Table 1 and Table 2.
4. **Treatment Method:** Please indicate the sewage sludge treatment method (Untreated, Lime Stabilized, Anaerobically digested, Heat dried, etc...), as specified in Table 1 and Table 2.
5. **Destination:** List the site, County, and State that received the sewage sludge, as specified in Table 2.
6. **Utilization:** Final Utilization of the material (examples: further treatment, seeding, distributed to public, etc...), as specified in Table 2.

Conversions Formulas:

To convert Gal to lb; **lb = (total gallons) x (8.34)**

To convert lb to WT; **WT = (weight in pounds) ÷ (2000)**

To convert WT to DT = **(WT) x (% Solids)**

CERTIFICATION:

I, as an authorized representative of the permittee named on this form, do solemnly affirm under the penalties of perjury, that the contents of this document are true to the best of my knowledge, information, and belief. Information in this form is subject to audit by the Maryland Department of the Environment (the “Department”). I hereby authorize the representatives of the Department, upon request, to have access to any records supporting the information provided in this form.

Name (Printed)

Title

Representing (Town, Company,...)

Signature

Date

Phone Number

Fax Number

Email Address

Table 1: Applicable to Sewage Sludge Composting, Treatment, Distribution and Marketing Permits, or related Permitted Facilities.

Prior Treatment		Sewage Sludge Received for Treatment	
How sewage sludge was treated prior to receiving or meeting Class A or Class B treatment standards? e.g. untreated, aerobically digested, etc...			
Sewage Sludge Source(s)	Treatment Method	Amount (Wet Tons)	% Solids

Table 2: For All SSU Permits Listed On Page 1 and 2

Sewage Sludge Source(s) <i>Indicate source name even if "0" was hauled or received for treatment, storage, etc...</i>	Treatment Method <i>e.g. raw, composted, pelletized, aerobically digested, etc...</i>	Av. % Solids	Total Wet Tons Utilized	Total Dry Tons Utilized	Sewage Sludge Utilization Destination <i>(List the site and indicate County and State)</i>	Date of Utilization <i>e.g. when was distributed, hauled, stored, etc...</i>	Final Utilization <i>e.g. distributed, hauled, incinerated, stored, etc...</i>

* Please attach additional copies of table as needed

