APPLICATION FOR A PERMIT TO UTILIZE AND STORE
WASTEWATER SLUDGE IN DELAWARE

According to Part III, B. of the Departments Guidance and Regulations Governing the Land Treatment of wastes (http://regulations.delaware.gov/AdminCode/title7/7000/7100/7103.pdf), a permit application shall consists of the initial application form specified by the Department combined with a Project Development Report (PDR) containing any supplementary information and analysis necessary to enable the Department to review the proposed project to determine if it is consistent with Delaware law and regulation. An application shall demonstrate how the applicant plans to comply with the applicable requirements of Department regulations, as well as any additional operating requirements set forth in these regulations that are specifically applicable to the particular type of operation that is proposed.

PRELIMINARY INFORMATION

1. Name of facility: James Wells Farm Site

   Mailing address: 33711 South Coastal Lane, Frankford DE, 19945

   Location (street address, if different from mailing address): South Side of Slaughter Neck Rd (County rd 215), 6 miles SE of Milford

2. Name of contact: Tyler Fink

   Mailing address: 33711 South Coastal Lane, Frankford, DE,19945

   Telephone number: 302-855-7730

3. **Description of Sewage Sludge Use or Disposal Practices**. Provide the following information on the quantity (total dry metric tons per year) of sewage sludge handled or proposed to be handled at the applicant's facility:

   Amount of sewage sludge:

2437.50	generated at the facility:
2374.30	received from off-site:
72	land applied:
Approx 60	sent off-site for land application:
0	sent off-site for further treatment or distribution for ultimate land application:
127.65	used or disposed of by a method not described above, including sewage sludge sent to a municipal solid waste landfill (explain below):

   486 from Seaford

4. **Sludge Quality Data**. Attach sewage sludge data for the parameters listed in Section 117.2 of the Department's Guidance and Regulations Governing the Land Treatment of Wastes, pathogen reduction information in accordance with Sections 132-134, and vector attraction reduction information in accordance with Section 135.

5. Is this permit application being completed by a representative of the wastewater treatment facility? If no, list the relation of the entity completing the permit application (e.g. the operator or a separate company interested in utilizing sewage sludge).

_____ Yes __X__ No If no, please explain Sussex County will be taking over the lease for the James Well Farm and seeks to land apply Class B biosolids cake.

6. Indicate type of facility:
   _____ Federally owned treatment works
   _____ Privately owned treatment works
   __X__ Publicly owned treatment works (POTW)
   If a POTW, provide the following:
   Total population served: _____
   Design influent flow (MGD): _____
   _____ Other _____

7. Applicants NPDES Permit Number (if applicable) South Coastal Regional Wastewater Facility DE0050008

8. Does this applicant perform any collection, treatment, storage, application to land, or disposal of sewage on Indian Lands?
   _____ Yes __X__ No

9. Provide a topographic map (or other appropriate map if a topographic map is unavailable) that shows the following three items of information. Include the area one mile beyond all property boundaries of the applicants facility (submit as many maps as necessary to show the entire area).

   a. Location of sewage sludge management facilities (including on-site disposal sites).
   b. Location of all water bodies.
   c. Location of wells used for drinking water listed in public records or otherwise known to the applicant within 1/4 mile of the property boundaries.

10. Other Requirements:

   a. List all Federal, State, and local permits or construction approvals received or applied for that are not described above that regulate sewage sludge management practices used by this applicant.
   AGU - 2005 S - 03 - Bunting Farm & Tower Field
   State Permit No. 359141-08 & -07 Construction

   b. Submit, with the application information, any other information that the permitting authority requests to assess sewage sludge use and disposal practices or identify appropriate requirements.

SECTION A. SEWAGE SLUDGE GENERATION OR PREPARATION

Complete Section A if the applicant generates sewage sludge or derives material from sewage sludge.

A.1. Sewage Sludge Use and Disposal

a. Total dry metric tons per year generated: 2437.50

b. Total dry metric tons per year received from off site: 2374.30

If sewage sludge is received from off-site, list the owner and NPDES permit number (if applicable) of the off-site facility. Also list the quantity (total dry metric tons per year) of sewage sludge received from each source (attach additional pages if necessary).

Owner: See attached sheet.
NPDES Permit Number:
Quantity:

A.2. Off-Site Treatment or Distribution. To be completed if the applicant sends sewage sludge to another facility for treatment or distribution prior to application to the land.

a. Total dry metric tons per year sent to receiving facility by the applicant: 517.30 from SCRWF

b. Name and address of facility to which sewage sludge is sent

Name: South Coastal Regional Wastewater Facility
Address: 33711 South Coastal Lane, Frankford, DE 19945

c. Which class of pathogen reduction (if any) is met by the sewage sludge before it leaves the applicant's facility? Class B Alternative 1

Describe the process(es) (if any) used to meet this class of pathogen reduction.
Class A alternative 5 produced at Inland Bays

d. Which of the following vector attraction reduction requirements (if any) is met by the sewage sludge before it leaves the applicants facility?

_____ Minimum 38 percent reduction in volatile solids
_____ Anaerobic process, with bench-scale demonstration
_____ Aerobic process, with bench-scale demonstration
_____ Specific oxygen uptake rate (SOUR) for aerobically digested sludge
_____ Aerobic processes plus raised temperature
_____ Raise pH to 12 and retain at 11.5
_____ 75 percent solids with no unstabilized solids
__X__ 90 percent solids with unstabilized solids
_____ Other, explain.

Describe the process(es) used to meet this vector attraction reduction requirement.

e. Check all activities performed by the receiving facility on the applicants sewage sludge (if applicable).

__X__ Dewatering
_____ Composting
_____ Stabilization
_____ Pathogen reduction
_____ Vector attraction reduction
_____ Blending with sewage sludge from other treatment works
_____ Addition of bulking materials (wood chips, sawdust, manure)
__X__ Placement in bag or other container
_____ Sale or give-away to public
_____ Other

Describe the activities identified above. Attach a copy of all labels or notices that accompany the product.
Facility produces Class A sludge through biosolids dryer for a portion of the year.
Facility uses belt filter press to create cake from any liquid received.

A.3. To be completed if the applicant **processes or packages sewage sludge for sale or give-away in a bag or other container for application to land** (Distribution and Marketing permits)

a. Provide the total dry metric tons per year processed or packaged for sale or give-away in a bag or other container for application to land. 1050.39

b. Indicate which class of pathogen reduction is met by the sewage sludge processed or packaged for sale or give away in a bag or other container for application to land. Class A, Alternative 5 - Biosolids Dryer

Describe the process(es) used to meet this class of pathogen reduction. Heat Drying

Are all processes used to meet this class of pathogen reduction provided by the applicant?
_____ Yes __X__ No

If no, explain. Only preformed on months while dryer is in operation.

c. Which of the following vector attraction reduction requirements is met by the sewage sludge processed or packaged for sale or give away in a bag or other container for application to land?
_____ Minimum 38 percent reduction in volatile solids
_____ Anaerobic process, with bench-scale demonstration
_____ Aerobic process, with bench-scale demonstration
_____ Specific oxygen uptake rate (SOUR) for aerobically digested sludge
_____ Aerobic processes plus raised temperature
_____ Raise pH to 12 and retain at 11.5
_____ 75 percent solids with no unstabilized solids
__X__ 90 percent solids with unstabilized solids
_____ Other, explain. _____

Describe the process(es) used to meet this vector attraction reduction requirement. _____

Are all processes used for vector attraction reduction provided by the applicant?

X Yes _____ No

If no, explain: _____

d. Briefly describe any blending or manufacturing processes employed prior to sale or give away in a bag or other container.

_____

_____

e. Attach a copy of all labels or notices that accompany the product being sold or given away.

A.4. To be completed if sewage sludge from this facility is **applied to land** (Agricultural Utilization permits).

a. Provide the total dry metric tons per year from this facility applied or proposed to be applied and list each land application site

Amount	Land Application Site
72	Tower Field
162.25	Bunting Farm 1

b. Have all land application sites been identified at the time of permit application?
X Yes _____ No

If no, submit a copy of the land application plan with this application information. Complete Section B only for Class B land application sites identified at the time of permit application.

SECTION B. LAND APPLICATION (Agricultural Utilization Permits for Class B Sludge)

Complete Section B if the applicant seeks a permit to apply sewage sludge to land.

B.1. Amount of Sewage Sludge Applied to Land Application Site. Provide the total dry metric tons per hectare per year applied to this site. _____

B.2. Site Information.

a. Provide the name (if any) and street address of this land application site.

Name James Wells Farm
Address South Side of Slaughter Neck Rd (County rd 215), 6 miles SE of Milford

b. Provide the size of the land application site in hectares. 35.39

c. Federal, State, and local permit number(s) applicable to this land application site (attach additional pages if necessary).

Permit Number	Type of Permit
AGU-2003-S-03	Agricultural Utilization

d. Is this site owned/operated by the applicant?
_____ Yes __X__ No

e. What is the concentration of total nitrogen (as N on dry weight basis) in the bulk sewage sludge applied to this land application site? 2.93%

B.3. Person that Land Applies the Sewage Sludge. Sewage sludge is applied to the site by:
__X__ Facility generating the sewage sludge
_____ Site owner/operator
_____ Other _____
Provide the name and address of the person that applies sewage sludge to this site.

Name Sussex County Council
Address 2 The Circle PO Box 589
Georgetown, DE, 19947

B.4. Type of Land Application Site

__X__ Agricultural
_____ Forest
_____ Public contact
_____ Reclamation site
_____ Lawn or home garden
_____ Other _____

B.5. Vegetation Grown on Site.

a. What type of vegetation is grown on this site? Field Corn

b. What is the nitrogen requirement for this vegetation? 250 lb per acre

B.6. Other facilities. Is sewage sludge sent to this land application site by any facilities other than the applicant's facility?

____ Yes _X_ No

If yes, provide the names and addresses of other persons that send sewage sludge to the site.

Name _____

Address _____

_____

B.7. Sewage Sludge Applied to Land in a Different State. Is this land application site located in a State other than the State where the sewage sludge is generated or the material is derived from sewage sludge?

____ Yes _X_ No

If yes, describe how the applicant plans to notify the permitting authority for the State where the land application site is located. _____

B.8. Land Application Cumulative Pollutant Loading Rates. Is this sewage sludge applied to land subject to cumulative pollutant loading rates?

_X_ Yes ____ No

If yes, have the cumulative pollutant loading rates of each applicable pollutant in the sludge been determined?

_X_ Yes ____ No

If yes, provide the allotment remaining for the following pollutants (in kilograms per hectare).

41	Arsenic	300	Lead	420	Nickel
39	Cadmium	17	Mercury	36	Selenium
1200	Chromium	18	Molybdenum	2800	Zinc
1500	Copper				

B.9. Pathogen Reduction.

a. Which class of pathogen reduction is met by the sewage sludge applied to this site? Class B Alternative 5

b. Describe the process(es) used to meet this class of pathogen reduction. 7 random grab samples
Belt Filter Press

c. Are all processes used to meet this class of pathogen reduction provided by the applicant?

_X_ Yes ____ No

If no, explain. _____

B.10. Vector Attraction Reduction.

a. Which of the following vector attraction reduction requirements is met by the sewage sludge applied to this site?

_____ Minimum 38 percent reduction in volatile solids
_____ Anaerobic process, with further bench-scale demonstration
_____ Aerobic process, with further bench-scale demonstration
_____ Specific oxygen uptake rate (SOUR) for aerobically digested sludge
_____ Aerobic processes plus raised temperature
_____ Raise pH to 12 and retain at 11.5
_____ 75 percent solids with no unstabilized solids
_____ 90 percent solids with unstabilized solids
_____ Injection below land surface
__X__ Incorporation into soil within 6 hours
_____ Covering active sewage sludge unit daily
_____ Other, explain. _____

b. Describe the process(es) used to meet this vector attraction reduction requirement. _____
Field storage in under 7 days. Incorporated within 6hrs of being spread.

c. Are all processes used for vector attraction reduction provided by the applicant?
__X__ Yes _____ No

If no, explain. _____

SECTION C. SLUDGE STORAGE

Complete Section C if the applicant proposes to store sludge in Delaware.

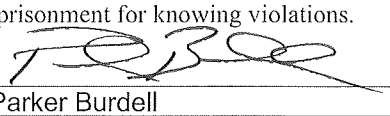
C.1. Is the application requesting a temporary or permeant sludge storage permit.

X Temporary _____ Permanent

C.2. The applicant shall submit all applicable information required in 7 Del. Admin. C. §7103-150 of Delaware's "*Guidance and Regulations Governing the Land Treatment of Waste*", Part III, B., *"Land Treatment of Sludges and Sludge Products"* http://regulations.delaware.gov/AdminCode/title7/7000/7100/7103.pdf with the submittal of this permit application in their project development report.

SECTION D. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Officer:	
Name of Officer:	Parker Burdell
Official Title of Officer:	Director of Enviornmental Services
Telephone Number:	302-855-7730
Date Signed:	11/21/2024