

APPLICATION FOR A PERMIT TO UTILIZE WASTEWATER SLUDGE IN DELAWARE DM 1902-K-03

PRELIMINARY INFORMATION

1.	Name of facility:	Kent County Regional Resource Recovery Facility
	Mailing Address:	139 Milford Neck Rd. Milford, DE 19963
	Location (street add	lress, if different from mailing address):
2.	Name of operator:	Mr. Colby Harrington
	Mailing Address:	555 Bay Road Dover, DE 19901
	Telephone Number:	(302)744-2430
ι.	Does this facility haveXYes	ve a currently effective NPDES permit?No
2.	Is this facility require RCRA, UST, CERCI	
I: qu	f the answers to the all estions is yes, comple	pove questions are <u>both</u> no, complete Part 1 only. If the answer to <u>any</u> of the above ete Part 2 rather than Part 1.
Se	nd the completed app	lication information to:
		State of Delaware

PART 1: LIMITED BACKGROUND INFORMATION

Applicants that answered \square no \square to all questions in the Preliminary Information section (Part 1) complete Part 1 only. Applicants that answered yes to any of the questions to the Preliminary Information section complete Part 2.

Division of Water Resources

Department of Natural Resources and Environmental Control
Surface Water Discharges Section
89 Kings Highway, P.O. Box 1401
Dover, Delaware 19901

1.	Does this operator own the facility for which the information is submitted? Yes No
2.	Indicate type of facility:
	Federally owned treatment works
	Privately owned treatment works
	Publicly owned treatment works (POTW)
	Other
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 at the applicants facility:
	Amount of sewage sludge:
	generated at the facility:
	received from off-site:
	land applied on-site:
	sent off-site for land application:
	sent off-site for further treatment or distribution
	for ultimate land application:
	disposed of in a surface disposal unit on-site:
	sent off-site for surface disposal:
	used or disposed of by a method not described above,
	including sewage sludge sent to a municipal solid
	waste landfill unit (explain below):
4.	Sludge Quality Data. Attach any data available on the quality of the sewage sludge, including but not limited to pollutant concentrations and the level of pathogen reduction attained. The applicant may use the tables in Section A of Part 2 to provide any or all of this information.
5.	Certification. Sign the certification statement below.
	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with the system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person/s 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.
(Name of Officer: Official Title of Officer: Telephone Number: Signature of Officer: Date Signed:

 $\begin{tabular}{ll} \textbf{PART 2: PERMIT APPLICATION INFORMATION} \\ \textbf{Applicants that answered \square yes$ \square to any of the questions in the Preliminary Information section complete Part 2.} \end{tabular}$

SECTION A. GENERAL INFORMATION **A.1.** Applicants NPDES Permit Number **A.2.** Does this operator own the facility for which the application information is submitted? _____ Yes __X__ No **A.3.** Indicate type of facility: Federally owned treatment works Privately owned treatment works Publicly owned treatment works (POTW) If a POTW, provide the following: Total population served: Design influent flow (MGD): Other __ A.4. Does this applicant perform any collection, treatment, storage, application to land, or disposal of sewage on Indian Lands? Yes <u>X</u> No A.5. 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. A.6. 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. __DM 1902-K03

- b. Submit, with this application information, any other information that the permitting authority requests to assess sewage sludge use and disposal practices or identify appropriate requirements.
- **A.7.** Provide the information on sewage sludge generated or material derived from sewage sludge at the applicant's facility.

SECTION B. SEWAGE SLUDGE GENERATION OR PREPARATION

AGU 1901-K-03

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

B ,1	l. i	Sewage	e Slud	lge Us	e and	Disposa	l
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AGU 2104-K-03

a.	Total dry metric tons per year generated	10,000 - 12,000
b.	Total dry metric tons per year received from off site	<u>0</u>

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

d. Which of the following vector attraction reduction requirements (if any) is met by the sewage sludge before 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 90 percent solids with unstabilized solids Other, explain.		source (attach additional pages if necessary).
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 b. Name and address of facility to which sewage sludge is sent Name Address c. Which class of pathogen reduction (if any) is met by the sewage sludge before it leaves the applicant's facility? Describe the process(es) (if any) used to meet this class of pathogen reduction. d. Which of the following vector attraction reduction requirements (if any) is met by the sewage sludge before leaves the applicants facility? Minimum 38 percent reduction in volatile solids Anaerobic process, with bench-scale demonstration Aerobic 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 90 percent solids with unstabilized solids Other, explain. Describe the process(es) used to meet this vector attraction reduction requirement. Check all activities performed by the receiving facility on the applicants sewage sludge. Dewatering Composting Stabilization Pathogen reduction Vector attraction reduction Blending with sewage sludge from other treatment works Addition of bulking materials (wood chips, sawdust, manure) Placement in bag or other container Sale or give-away to public	N	VPDES Permit Number:
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Pathogen reduction Vector attraction reduction Blending with sewage sludge from other treatment works Addition of bulking materials (wood chips, sawdust, manure) Placement in bag or other container Sale or give-away to public		Composting
Vector attraction reduction Blending with sewage sludge from other treatment works Addition of bulking materials (wood chips, sawdust, manure) Placement in bag or other container Sale or give-away to public		Stabilization
Blending with sewage sludge from other treatment works Addition of bulking materials (wood chips, sawdust, manure) Placement in bag or other container Sale or give-away to public		Pathogen reduction
Addition of bulking materials (wood chips, sawdust, manure) Placement in bag or other container Sale or give-away to public		
Placement in bag or other container Sale or give-away to public		
Sale or give-away to public		Placement in hag or other container
Other	-	Sale or give-away to public
	-	Other
	_	

	I if the applicant processes or packages sewage sludge for sale or give-away in a bag or oth plication to land (as explained in the instructions)
	tal dry metric tons per year processed or packaged for sale or give-away in a bag or other application to land.
b. Indicate which	h class of pathogen reduction is met by the sewage sludge processed or packaged for sale of a bag or other container for application to land. Class A and Class B
	rocess(es) used to meet this class of pathogen reduction: Thermal treatment and lime
Are all processeX_ Yes	es used to meet this class of pathogen reduction provided by the applicant?No
If no, explain.	
packaged for Minimu Anaero Aerobi	following vector attraction reduction requirements is met by the sewage sludge processed of sale or give away in a bag or other container for application to land? In 38 percent reduction in volatile solids obic process, with bench-scale demonstration c process, with bench-scale demonstration c oxygen uptake rate (SOUR) for aerobically digested sludge
Aerobi	c processes plus raised temperature
	oH to 12 and retain at 11.5 cent solids
	ent solids with unstabilized solids
Other,	explain.
dewatering	cess(es) used to meet this vector attraction reduction requirement. <u>Lime addition followin</u>
Are all processes X Yes	used for vector attraction reduction provided by the applicant? No
n no, explain	
	e any blending or manufacturing processes employed prior to sale or give away in a bag or
e. Attach a copy of	f all labels or notices that accompany the product being sold or given away.
4. To be completed	if sewage sludge from this facility is applied to land.
a. Provide the tota	l dry metric tons per year from this facility applied to each land application site
Amount	Land Application Site
TBD	Kent County KSF1, KSF4, KSF5, and West Farms, (Multi-Farm)
TIDE	
TBD TBD	Kent County Vineyard Farm Application at sites Identified in BARRS Report Attached

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

b.	Total dry metric tons per year from the applicants facility disposed of in surface disposal site Name and location of surface disposal site Name Location
c.	If the surface disposal site is owned or operated by the applicant, go to B.6, and also complete Section D. I not, answer B.5.d through B.5.f.
	Provide the name and address of the site owner/operator. Name Address
e.	Which class of pathogen reduction is met for the sewage sludge disposed of in this surface disposal site?
	Describe the process(es) used to meet this class of pathogen reduction.
	Are all processes used to meet this class of pathogen reduction provided by the applicant? Yes No
T	f no. explain.
Ι	f no, explain.
Ι	f no, explain.
f.	Which of the following vector attraction reduction requirements is met for the sewage sludge disposed of this surface disposal site?
f.	Which of the following vector attraction reduction requirements is met for the sewage sludge disposed of this surface disposal site? Minimum 38 percent reduction in volatile solids
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f.	Which of the following vector attraction reduction requirements is met for the sewage sludge disposed of this surface disposal 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
f.	Which of the following vector attraction reduction requirements is met for the sewage sludge disposed of this surface disposal 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
f.	Which of the following vector attraction reduction requirements is met for the sewage sludge disposed of this surface disposal 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
f.	Which of the following vector attraction reduction requirements is met for the sewage sludge disposed of this surface disposal 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
f.	Which of the following vector attraction reduction requirements is met for the sewage sludge disposed of it this surface disposal 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
f.	Which of the following vector attraction reduction requirements is met for the sewage sludge disposed of this surface disposal 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 Incorporation into soil within 6 hours Covering active sewage sludge unit daily
f.	Which of the following vector attraction reduction requirements is met for the sewage sludge disposed of this surface disposal 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 Incorporation into soil within 6 hours

n no, explam.
SECTION C. LAND APPLICATION
Applicants whose sewage sludge is applied to land, and applicants that apply sewage sludge to land complete Section C.
C.1. Amount of Sewage Sludge Applied to Land Application Site. Provide the total dry metric tons per hectare per year applied to this site. 9.93
C.2. Site Information.
a. Provide the name (if any) and street address of this land application site.
Name Kent County (SEE PDR) Address
b. Provide the size of the land application site in hectares.
 Federal, State, and local permit number(s) applicable to this land application site (attach additional pages it necessary).
Permit Number Type of Permit
 d. Is this site owned/operated by the applicant? X Yes 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? Approx. 3.75%
C.3. Person that Land Applies the Sewage Sludge. Sewage sludge is applied to the site by: X Facility generating the sewage sludge X Site owner/operator Other Provide the name and address of the person that applies sewage sludge to this site.
Name Kent County Address 555 Bay Road Dover, DE 19901
C.4. Type of Land Application Site
X Agricultural Forest Public contact Reclamation site Lawn or home garden Other

C.5. Vegetation Grown on Site.

	a. What type of vegetation is grown on this site? <u>grain corn/soybeans/small grains</u>
	b. What is the nitrogen requirement for this vegetation? <u>0 lb/acre - 165 lb/acre</u>
C.6.	Other facilities. Is sewage sludge sent to this land application site by any facilities other than the applicant facility? Yes X No
	If yes, provide the names and addresses of other persons that send sewage sludge to the site.
	Name Address
C.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
C.8.	Land Application Cumulative Pollutant Loading Rates. Is this sewage sludge applied to land subject to cumulative pollutant loading rates? Yes X No
d	If yes, have the cumulative pollutant loading rates of each pollutant applied to land in accordance with been letermined? Yes No
If ye	s, provide the allotment remaining for the following pollutants (in kilograms per hectare).
	Arsenic Lead Nickel
	Cadmium Mercury Selenium
	Chromium Molybdenum Zinc Copper
C.9.	Pathogen Reduction.
	a. Which class of pathogen reduction is met by the sewage sludge applied to this site? Class A
<u>Tem</u> j	b. Describe the process(es) used to meet this class of pathogen reduction. Alternative II Time and perature Method
	c. Are all processes used to meet this class of pathogen reduction provided by the applicant> _X_YesNo
	If no, explain.

C.10. Vector Attraction Reduction.

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

<u></u>	 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
	Injection below land surface
	Incorporation into soil within 6 hours
	Covering active sewage sludge unit daily
	Other, explain.
b. Descr dewatering	ibe the process(es) used to meet this vector attraction reduction requirement. Lime addition after
	processes used for vector attraction reduction provided by the applicant> YesNo
If no, ex	xplain.
SECTION	D. SURFACE DISPOSAL
a 1. a	
Complete Sec	ction D if applicants own or operate a surface disposal site.
D.1. Name a	nd Location of Surface Disposal Site.
Name	
Address	
	Ship Status. Is this surface disposal site owned by the applicant? Yes No
surface o	Who Disposes of Sewage Sludge in the Surface Disposal Site. Sewage sludge is disposed of in the disposal site by (check all that apply) Facility generating the sewage sludge Site owner
	Other
Provide:	name and mailing address of person who disposes of sewage sludge in this surface disposal site.
Name	
Address	
D.4. Ground	-Water Monitoring.
	ound-water monitoring conducted at this surface disposal site?Yes No
If yes,	describe,
b. Has a	a ground-water monitoring plan been prepared for the surface disposal site?

	Yes No
	If yes, provide a copy of the ground-water monitoring plan.
	c. Has the applicant obtained a certification from a qualified ground-water scientist that ground-water contamination has not occurred? Yes No
	If yes, provide a copy of the certification.
	Provide the information requested in D.5 D.12. once for each active sewage sludge unit.
D.5.	Name or Number of Active Sewage Sludge Unit.
D.6.	Amount of Sewage Sludge Disposed of in the Unit. Provide the total dry metric tons per year disposed of in this sewage sludge unit.
D.7.	Pathogen Reduction.
	a. Which class of pathogen reduction is met for the sewage sludge disposed of in this sewage sludge unit?
	b. Describe the process(es) used to meet this class of pathogen reduction.
	c. Are all processes used to meet this class of pathogen reduction provided by the applicant? Yes No
	Yes No
D.8.	Yes No
D.8.	YesNo If no, explain. Vector Attraction Reduction. a. Which of the following vector attraction reduction requirements is met for the sewage sludge disposed of in this surface disposal 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
D.8.	YesNo If no, explain. Which of the following vector attraction reduction requirements is met for the sewage sludge disposed of in this surface disposal 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
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	If no, explain.	
prop	Distance from Property B perty line of the surface disp Yes No	coundary. Is the distance from the boundary of this sewage sludge unit to the losal site less than 150 meters?
	If yes, list the actual distant	ce:
D.10.	Liners. Does this sewage Yes No	sludge unit have a liner?
	If yes, describe the liner.	
D.11.	Leachate Collection Syst	ems. Does this sewage sludge unit have a leachate collection system?
	If yes, describe the method	d used for leachate disposal.
	Also if yes, provide Federa	al, State, and local permit number(s) for the disposal of leachate. Type of Permit
D.12.	Site-Specific Limits. Are sewage sludge unit? Yes No	site-specific pollutant limits being sought for the sewage sludge disposed of in this
SEC	TION F. CERTIFIC	ATION
super inform direct accura	vision in accordance with a nation submitted. Based or ly responsible for gathering ate, and complete. I am aw ossibility of fine and imprison	t this document and all attachments were prepared under my direction or system designed to assure that qualified personnel properly gather and evaluate the my inquiry of the person or persons who manage the system or those persons the information, the information is, to the best of my knowledge and belief, true, are that there are significant penalties for submitting false information, including comment for knowing violations.
Name Offici Telep	e of Officer: ial Title of Officer: hone Number:	iana J Halt 11-28-23 liana T. Golt ublic Works Director 02.744.2430