



STATE OF DELAWARE
**DEPARTMENT OF NATURAL RESOURCES AND
ENVIRONMENTAL CONTROL**
DIVISION OF WATER
RICHARDSON & ROBBINS BUILDING
89 KINGS HIGHWAY
DOVER, DELAWARE 19901

Commercial & Government Services

Telephone: (302) 739-9948

TECHNICAL RESPONSE MEMORANDUM

To: Lisa A. Vest, Hearing Officer

Through: Steven Smailer, P.G., Director, Division of Water (DW) *MS*
Jennifer Roushey, Environmental Program Administrator, DW JR 10/17/22
John Rebar Jr., Environmental Program Manager II, DW *JR* 10-05-22

From: Katharyn Potter, Engineer II, DW

RE: Response to comments received during the Public Hearing (Docket #2019-P-W-0030) held on January 8, 2020, and associated Comment Period, on the application submitted by Allen Harim Foods, LLC seeking a State of Delaware Non-Hazardous Liquid Waste Transporters Permit authorizing the transportation of non-hazardous liquid waste (i.e., poultry process wastewater) from Allen Harim's Hatchery No. 2 in Dagsboro and Allen Harim's Pinnacle Processing Facility in Millsboro to Allen Harim's Harbeson Processing Facility for treatment and disposal.

Date: October 5, 2022

This Technical Response Memorandum (TRM) was prepared at the request of the presiding Hearing Officer to assist in the completion of the Hearing Officer's Report to the Secretary of the Delaware Department of Natural Resources and Environmental Control (the Department). The TRM was prepared by the Division of Water (DW) and provides the information necessary to inform the final decision on the issuance of a State of Delaware Non-Hazardous Liquid Waste Transporters Permit authorizing the collection, transport, and disposal of non-hazardous liquid waste (i.e., poultry process wastewater) to Allen Harim's Harbeson Processing Facility for treatment and disposal.

On October 4, 2019, the Division of Water received an application submitted by Allen Harim Foods, LLC seeking a State of Delaware Non-Hazardous Liquid Waste Transporters Permit authorizing the transportation of non-hazardous liquid waste (i.e., poultry process wastewater) from Allen Harim's Hatchery No. 2 in Dagsboro and Allen Harim's Pinnacle Processing Facility in Millsboro to Allen Harim's Harbeson Processing Facility for treatment and disposal. After deeming the application administratively complete, the Division advertised the application and notification of a Public Hearing in the *Delaware State News* and the *News Journal* on December 15, 2019.

A Public Hearing was held on the Allen Harim Foods, LLC's transporter permit application and proposed draft permit on Wednesday, January 8, 2020, at the Indian River Senior Center at 6:00 PM. Comments were offered by five (5) individuals: three (3) offered oral and written comments, one (1) offered oral comments only, and (1) offered written comments only. During the preparation of this *response to comments* document, the Division paraphrased and grouped similar comments together. Comments and the Division's responses follow.

1. Multiple comments expressed concern that the application provided limited information and asked if the application was [technically] complete?

Section 5.3.32.3 of the of the *Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems* (the Regulations) states [in part] that a technically complete application must include:

- a. Company and Owner's Information
- b. A detailed description of the transport vehicles to include vehicle type, make and model, vehicle year, license number, state of registration, capacity size, number, and all modifications made to prevent spills and leaks
- c. Type(s) of non-hazardous liquid waste being transported
- d. List of all disposal facilities to be utilized, for each waste stream
- e. Approval letters/documents from each disposal facility
- f. An operations plan to include transportation route, days and hours of operation, spill reporting and cleanup plans, plans to keep transportation vehicles clean, and recordkeeping procedures
- g. Certificate of Insurance
- h. A list of Class F licensees working for the company (if applicable)
- i. Copy of Bond (if applicable)

All required information and supplemental documents were submitted as part of the application or were already on-file with the Department and the application was deemed technically complete.

In accordance with the information provided with the application Allen Harim Foods intends to operate two Freightliner® trucks (2003 and 2005) along with one 1998 Brenner tank trailer with a 6,000-gallon storage capacity (Appendix I: Application). Wastewater hauling from Allen Harim's Hatchery No. 2 and Allen Harim's Pinnacle Processing Facility is restricted to 40,000 gallons per day from each site. This hauling limitation is in accordance with Allen Harim's Onsite Wastewater Treatment and Disposal System (OWTDS) Operations Permit for the wastewater treatment system receiving the wastewater at the Allen Harim Harbeson Processing Facility (Appendix II: Permit). Please note the Regulations *do not require* hauling limits in transporters permits. However, pursuant to the OWTDS Operations Permit, Allen Harim will be required to record the volume of wastewater received from the Hatchery and Pinnacle Facility daily. The daily and total volumes from each site will be submitted to the Department in monthly monitoring report submittals.

2. Multiple comments expressed concerns with the water quality proposed to be transported to the Allen Harim Harbeson Processing Facility’s wastewater treatment system. Specifically, several commentors raised concerns about the presence of quaternary ammonium compounds (QACs) and potential impacts on the wastewater treatment process and environment. Other commentors discussed the need for sampling wastewater prior to hauling.

The Department issues Non-Hazardous Liquid Waste Transporters Permits to specifically regulate the safe hauling, conveyance, or transport of any non-hazardous liquid waste with the intention of delivering this non-hazardous liquid waste from one location to another over the public roads of the State of Delaware. Allen Harim Foods is seeking authorization to transport poultry processing wastewater which can also include brines from reverse osmosis treatment systems. While poultry processing wastewater contains high levels of organic and inorganic constituents that could impact the environment; it is considered a non-hazardous liquid waste and the treatment and disposal of the waste is regulated through the treatment and disposal permits of the facilities receiving the waste.

Quaternary ammonium compounds (QACs) are disinfection agents that can impact activated sludge wastewater treatment systems operations and have been identified in treated effluent, biosolids, and ultimately, surface waters impacting natural microbial environments. The application included a wastewater analysis that indicates that the presences of QACs is low to non-detect (Appendix III: Analytical Data) and below the 10-40 mg/L concentrations that can inhibit activated sludge processes communities (Hora, P.I., S.G. Pati, P.J. McNamara, and W.A. Arnold. 2020. Increased Use of Quaternary Ammonium Compounds during the SARS-CoV-2 Pandemic and Beyond: Consideration of Environmental Implications. Environmental Science and Technology Letters doi: 10.1021/acs.estlett.0c00437).

In addition, poultry processing wastewater as a waste stream, is well characterized in the scientific literature (Table 1) and therefore the Department does not require routine or random sampling.

Table 1: Physical and Chemical Characteristics of Poultry Processing Wastewater

Parameter	Average	Minimum	Maximum
TSS	3438	377	5462
BOD5	1602	1341	1821
COD	5422	3154	7719
TOTAL N	361	162	563
TOTAL P	12	7	17
PH	8.0	7.3	8.6

Citation: Yaakob, M.A., et. al. 2018. Characteristics of Chicken Slaughterhouse Wastewater. Chemical Engineering Transactions 63 doi: 10.3303/CET1863107

3. Multiple comments raised concerns regarding the environmental safety of hauling activities and impacts to traffic patterns.

The Transporters Permit does include operational and maintenance requirements to ensure that non-hazardous liquid wastes are collected and transported in a manner that is protective of public health and the environment. All vehicles used to transport non-hazardous liquid wastes must be operated and maintained in compliance with all State and Federal Transportation Regulations. Every vehicle used for waste transporting purposes must be equipped with a leak-proof tank or body and must be maintained in a clean and sanitary condition. All pumps, hoses, and vehicle tanks or bodies must be maintained to prevent leakage. Provisions must be made to discharge all liquid wastes through a leak-proof hose from the tank compartment of the vehicle; and all waste transporting truck pumping and discharge hoses shall be fitted with automatic shut-off valves at the tank compartment of the vehicle(s). In addition, all vehicles must include a copy of the Transporters Permit and a copy of a Spill and Cleanup Plan. The plan must include the following elements:

- a. Department Notification (spill hotline)
- b. Name of the individual reporting the spill
- c. Date and time the spill occurred
- d. Location of the spill
- e. Identification of the substance spilled
- f. Amount spilled (estimated)
- g. The time and duration of the spill
- h. Description of cleanup activities

Once a transporter safely delivers non-hazardous liquid waste to an authorized facility it is that facility's responsibility to safely treat and/or dispose of the waste in a manner that is protective of public health and the environment. All disposal facilities that receive non-hazardous liquid waste are permitted by the Department. The permits issued to these facilities include effluent limitations (if applicable), monitoring, reporting, and operational requirements. Facilities that discharge or land apply wastes have permit requirements that include effluent composite sampling for nutrients, metals, pH, and other inorganics, soil monitoring, groundwater monitoring, and authorize land application at specific agronomic rates. In addition, Section 3.20 of the Regulations authorizes the Department to require Permittees to take all necessary actions to eliminate and correct any adverse impact on public health or the environment resulting from Permit noncompliance.

The Department does not regulate traffic impacts and travel routes associated with transporter permits. For questions concerning traffic impacts, travel routes, and general truck traffic safety requirements please contact DelDOT or the Delaware State Police.

4. Multiple comments discussed existing and alleged surface water and groundwater impacts in the area associated with poultry operations.

Please note, this hearing matter is specific to the safe transport of non-hazardous liquid waste on State roads by Allen Harim Foods, LLC. The proposed draft permit (if approved) will include vehicle operational and maintenance requirements designed to protect public health and the environment. Concerns associated with specific facilities and potential operational impacts to water resources is not the subject of this application and proposed draft permit.

Recommendations

Allen Harim Foods, LLC's application submittal for a proposed Non-Hazardous Liquid Waste Transporters Permit is complete and in accordance with the applicable regulatory requirements of 7 Del. Admin. C. § 7101 *Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems*. The proposed draft permit specifically governs the safe hauling, conveyance, or transport of non-hazardous liquid waste (i.e., poultry process wastewater) with the intention of delivering this waste from one location to another over the public roads of the State of Delaware. The proposed draft permit is written to be protective of human health and the environment, and consistent with applicable State and Federal Regulations.

Therefore, the Division of Water recommends issuance of the Non-Hazardous Liquid Waste Transporters Permit (DE OH-679) as proposed and without significant changes to Allen Harim Foods, LLC authorizing the transportation of poultry processing wastewater (Appendix IV: Finalized Non-Hazardous Liquid Waste Transporters Permit).

Appendix I

RECEIVED

OCT - 4 2019

GROUNDWATER



NON-HAZARDOUS LIQUID WASTE TRANSPORTERS PERMIT APPLICATION

**Groundwater Discharges Section, Division of Water
Delaware Department of Natural Resources and Environmental Control
89 Kings Highway, Dover DE 19901
(302) 739-9948**

1. Permit Number (For renewals only):

2. Company Information

Company Name:

Allen Harim Foods, LLC

Telephone:

302-629-9136

Fax:

302-684-1566

Address (street, city, state and zip code):

*29984 Pinnacle Way
P.O. Box 1380*

Millsboro, DE 19666

Company Email Address & Contact Name:

msause@allenharimllc.com

Michael Sause

3. Owner/President Business Information

Name:

Dr. Key Lee, CEO

Business Telephone:

302-629-9136 ext 6091

Business Address if different from above (street, city, state and zip code):

Same address

4. Vehicle(s) Information (Attach additional sheets if necessary to identify each vehicle used for transport.)

	Vehicle Type (i.e. Tank, trailer, etc.)	Vehicle Make & Model	Vehicle Year	License No. and State of Registration	Capacity (gal)
i.	<i>Truck</i>	<i>FRHT</i>	<i>2005</i>	<i>CL118607 DE</i>	<i>N/A</i>
ii.	<i>Truck</i>	<i>FRHT</i>	<i>2003</i>	<i>CL118608 DE</i>	<i>N/A</i>

*** Please submit a Certificate of Insurance for each vehicle listed demonstrating commercial automobile liability insurance with a combined single limit of at least \$100,000.** *see additional sheets*

5. Please Check Type(s) of Waste Being Transported and Provide the Information Requested in the Indicated Sections for Each Waste Type Checked

	Waste Type	Quantity Collected	Provide the Information in the Following Sections for Each Waste Type Checked
i.	Septage	gal/yr	A
ii.	Holding Tank Waste	gal/yr	A
iii.	Grease Trap Waste and/or Cooking Oil Waste	gal/yr	B
iv.	Portable Toilet Waste	gal/yr	C
v.	Municipal or Industrial Biosolids	# wet tons/yr	D
vi.	Sludge From Package Treatment Plants	# wet tons/yr	D
vii.	<input checked="" type="checkbox"/> Other Non-Hazardous Liquid Waste	<i>6,200,000</i> gal/yr	E

01 1007'19 10:58 12481 PLU MH PERMIT \$450.00

Documents required for all new permit applications *and* renewals:

- Attach an Operation Plan detailing the following:
 - a spill reporting and clean-up plan,
 - plans for cleaning vehicles,
 - recordkeeping procedures and
 - days and hours of operation.

- Attach a list of all disposal facilities to be used. Include a copy of the permit/authorization letter from each disposal facility stating the company is currently authorized to discharge the requested waste stream (i.e. septage, holding tank waste, portable toilet waste, etc.) to the facility. Authorization documentation is required for both new and renewal applications.

7 DelC §6023(d): No person shall haul, convey or transport any liquid waste in any container without a license issued by the Department.

Section A. Septage & Holding Tanks

1. Attach a list of all Class F Licensees currently working for the company.

If there are no Class F Licensees currently working for the company, please note according to Section 4.1.6 of the State of Delaware Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems, all individuals who will be responsible for removal, transportation or disposal of the solid and liquid contents of septic tanks, cesspools, grease traps, seepage pits, holding tanks, portable toilets or other wastewater treatment or disposal facilities must obtain a Class F license before pumping. In order for an individual to obtain a Class F license.

For a Class F License application, please contact Dawn Dryden at 302-739-9948.

2. Part III B, Section 500 of the Guidance and Regulations Governing the Land Treatment of Wastes directs, as a requirement for keeping a permit issued under these Regulations, the permittee to file a bond or other security in the amount of Five Thousand Dollars (\$5,000) with the Department. The bond is to be payable to the Department and the obligation of the bond shall be conditioned upon the fulfillment of all requirements related to the permit. **If this application is for permit renewal, please submit a copy of the current Transporters Bond certification.**

3. Applicants for a renewal permit must be in compliance with the Pump Reporting requirements in accordance with the State of Delaware Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems ('On-Site Regulations'): §4.12.6.7.1: *The Class F license shall submit quarterly reports documenting the location, the 911 mailing address and amount of septage removed in total gallons.*

Section B. Grease Trap Waste and/or Cooking Oil Waste

1. Attach a list of all disposal facilities to be used.

2. Attach an Operation Plan.

Section C. Portable Toilets

1. Attach a list of all Class F Licensees currently working for the company.

If there are no Class F Licensees currently working for the company, please note according to Section 4.1.6 of the State of Delaware Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems, all individuals who will be responsible for removal, transportation or disposal of the solid and liquid contents of septic tanks, cesspools, grease traps, seepage pits, holding tanks, portable toilets or other wastewater treatment or disposal facilities must obtain a Class F license before pumping.

For a Class F License application, please contact Dawn Dryden at 302-739-9948.

2. Quantity of portable toilets you own.

Section D. Municipal and Industrial Biosolids & Sludge From Package Treatment Plants

1. Identify all Facilities the company will service by attaching a table listing the following:

Facility Name of Sludge Generator | Estimated Volume of Sludge to be Transported | Disposal Facility*

* If sludge is to be land applied, include the current Agricultural Utilization Permit Number for that facility.

2. Provide transportation routes from all generating facilities to all applicable disposal facilities.

3. Indicate any treatment the sludge has undergone before transportation (for example anaerobic digestion, aerobic digestion, lime stabilization, composting, or dewatering).

4. Provide results of a laboratory analysis of a representative sample of the sludge which was obtained not more than 6 months before submission of the application unless these results would be submitted as a part of the land application program. The analysis shall include, as a minimum, percent solids, pH, and the dry weight concentration of total nitrogen, ammonium, nitrate, total phosphorous, total potassium, cadmium, copper, mercury, nickel, lead, zinc, arsenic, selenium, and molybdenum.

5. Part III B, Section 500 of the Guidance and Regulations Governing the Land Treatment of Wastes directs, as a requirement for keeping a permit issued under these Regulations, the permittee to file a bond or other security in the amount of Five Thousand Dollars (\$5,000) with the Department. The bond is to be payable to the Department and the obligation of the bond shall be conditioned upon the fulfillment of all requirements related to the permit. **If this application is for permit renewal, please submit a copy of the current Transporters Bond certification.**

Section E. Other Non-Hazardous Liquid Wastes

1. Describe the source, nature and make-up of the non-hazardous liquid waste to be transported. *see attached*

2. Will any of the wastes contain petroleum products (i.e. oil, gas, grease, etc.)? Yes No

* Transportation of liquid wastes containing any petroleum products will require a permit from the Division of Waste & Hazardous Substances (302-739-9400).

6. Permit Fee

This application will not be considered complete and cannot be processed unless accompanied by a fee in the amount of Four Hundred Fifty Dollars (\$450.00), payable to the State of Delaware, which is required for all new applicants. Pursuant to House Bill No. 360, June 25, 1991, Permittees are subsequently required to pay an annual permit fee of Four Hundred Fifty Dollars (\$450.00), payable to the State of Delaware. **If this application is for permit renewal, please do not submit the Four Hundred Fifty Dollar (\$450.00) fee with this application.** Annual permit renewal billing is done separately by our accounting department.

7. Public Notification Fee

Pursuant to 7 Del. C., Chapter 60, §6004, an advertisement shall be placed in a newspaper of general circulation in the county(ies) in which the activity is proposed and in a daily newspaper of general circulation through the State, notifying the public that the application has been received by the Department and offering a brief description of the nature of the proposed activity. In accordance with 7 Del. C., Chapter 60, §6004, the cost of such advertisement shall be borne by the applicant. **This application will not be considered complete and cannot be processed unless accompanied by an advertising fee in the amount of \$210.00, payable to the State of Delaware.**

8. Certification

I certify that all information submitted as part of this application is true and correct to the best of my knowledge and belief.

Signature of Applicant:

Michael R. Sausé

Date:

10-4-2019

Printed Name of Applicant:

Michael R. Sausé

Title of Applicant:

Environmental Manager

This application must be signed by an official owner, operator or authorized representatives of your operation such as an operations manager, superintendent or person of equal responsibility.

ALLEN HARIM FOOD, LLC

DAGSBORO HATCHERY 2

SECTION 4 – VEHICLE INFORMATION cont.



Allen Harim Foods, LLC
Dagsboro Hatchery 2
26887 Nine Foot Road
Dagsboro, DE 19939
Phone (302) 732-9511

Section 4 Vehicle Information continued.

Vehicle Type	Vehicle Make & Model	Vehicle Year	License No. State of Reg.	Capacity (gal.)
Tanker	Brenner Tanker	1998	227229C Maine	6,000 gallons

ALLEN HARIM FOODS, LLC

DAGSBORO HATCHERY 2

CERTIFICATES OF INSURANCE

STATE OF DELAWARE APPORTIONED CAB CARDS



ADDITIONAL REMARKS SCHEDULE

AGENCY AssuredPartners of SC, LLC - Columbia		NAMED INSURED Allen Harim Foods, LLC 29984 Pinnacle Way P.O. Box 1380 Millsboro, DE 19966	
POLICY NUMBER SEE PAGE 1		EFFECTIVE DATE: SEE PAGE 1	
CARRIER SEE PAGE 1	NAIC CODE SEE P 1		

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
 FORM NUMBER: ACORD 25 FORM TITLE: Certificate of Liability Insurance

Description of Operations/Locations/Vehicles:

Hale Trailer Brake & Wheel, Inc listed as is Additional Insured with respect to Auto Liability and Loss Payee with respect to Auto Physical Damage for leased and rented vehicles.

30 day notice of cancellation, 10 day notice of non payment is given

AUTO PHYSICAL DAMAGE COVERAGE:

Comprehensive and collision coverage applies to all owned, leased or rented autos with a cost new of \$25,000 or more for the following (Trailers are included in the definition of owned, leased or rented vehicles):

- Private passenger "autos" subject to a \$5,000 deductible
- "Autos" other than private passenger "autos" with a gross vehicle weight less than or equal to 20,000 pounds subject to a \$10,000 deductible
- "Autos" other than private passenger "autos" with a gross vehicle weight greater than 20,000 pounds subject to a \$20,000 deductible



State of Delaware Apportioned Cab Card
Keep this certificate in your vehicle

The vehicle described herein has been proportionally registered between
 The State of Delaware and the Jurisdictions below

Expiration Date: 03/31/2020 Plate Number: CL118608 VIN: 1FUJA6CV93LL73559

Account #	Fleet	Supplement	Reg Date	Color/Color	Unit #	Fuel	Year	Make
5276	1	1	08/06/2019	BLU/	3028	D	2003	FRHT

Unladen Weight	Manufacturer's Gross Vehicle Weight Rating	Power Unit Gross Vehicle Weight	Combined Gross Gross Vehicle Weight	TYPE	AXLES
16,000	52,000	52,000	80,000	TT	3

ALLEN HARIM FOODS LLC

Registrant	Carrier Responsible for Safety	CRFS USDOT
ALLEN HARIM FOODS LLC 29984 PINNACLE WAY MILLSBORO, DE 19966	ALLEN HARIM FOODS LLC 29984 PINNACLE WAY MILLSBORO, DE 19966	2184266

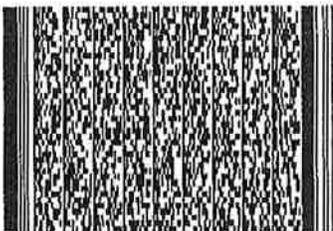
AB 36287k	FL 80000	MB 36287k	ND 80000	OK 80000	TN 80000	** ****
AL 80000	GA 80000	MD 80000	NE 80000	ON 36287k	TX 80000	** ****
AR 80000	IA 80000	ME 80000	NH 80000	OR 80000	UT 80000	** ****
AZ 80000	ID 80000	MI 80000	NJ 80000	PA 80000	VA 80000	** ****
BC 36287k	IL 80000	MN 80000	NL 36287k	PE 36287k	VT 80000	** ****
CA 80000	IN 80000	MO 80000	NM 80000	QC 5 AXLE	WA 80000	** ****
CO 80000	KS 80000	MS 80000	NS 36287k	RI 80000	WI 80000	** ****
CT 80000	KY 80000	MT 80000	NV 80000	SC 80000	WV 80000	** ****
DC 80000	LA 80000	NB 36287k	NY 80000	SD 80000	WY 80000	** ****
DE 80000	MA 80000	NC 80000	OH 80000	SK 36287k	** ****	** ****

1. This is neither a driver's license nor a certificate of title to a motor vehicle
2. Always keep this registration card with the vehicle it describes
3. Your insurance ID card must be with the vehicle when it is being operated
4. A new owner may not drive under this registration

Owners Signature Allen Harim Foods LLC BY James P. Gull

****WARNING****

IRP registration is NOT transferable to a new owner. Please contact our office at 302-744-2702 if you have any questions.



M31 EXPIRES
AR 20
 CL118608



State of Delaware Apportioned Cab Card
Keep this certificate in your vehicle

The vehicle described herein has been proportionally registered between
 The State of Delaware and the Jurisdictions below

Expiration Date: 03/31/2020				Plate Number: CL118607			VIN: 1FUJA6CG45LU22882		
Account #	Fleet	Supplement	Reg Date	Color/Color	Unit #	Fuel	Year	Make	
5276	1	1	08/06/2019	BLU/	3023	D	2005	FRHT	
Unladen Weight	Manufacturer's Gross Vehicle Weight Rating		Power Unit Gross Vehicle Weight	Combined Gross Gross Vehicle Weight		TYPE	AXLES		
16,000	50,000		50,000	80,000		TT	3		
ALLEN HARIM FOODS LLC									

Registrant	Carrier Responsible for Safety	CRFS USDOT
ALLEN HARIM FOODS LLC 29984 PINNACLE WAY MILLSBORO, DE 19966	ALLEN HARIM FOODS LLC 29984 PINNACLE WAY MILLSBORO, DE 19966	2184266

AB 36287k	FL 80000	MB 36287k	ND 80000	OK 80000	TN 80000	** ****
AL 80000	GA 80000	MD 80000	NE 80000	ON 36287k	TX 80000	** ****
AR 80000	IA 80000	ME 80000	NH 80000	OR 80000	UT 80000	** ****
AZ 80000	ID 80000	MI 80000	NJ 80000	PA 80000	VA 80000	** ****
BC 36287k	IL 80000	MN 80000	NL 36287k	PE 36287k	VT 80000	** ****
CA 80000	IN 80000	MO 80000	NM 80000	QC 5 AXLE	WA 80000	** ****
CO 80000	KS 80000	MS 80000	NS 36287k	RI 80000	WI 80000	** ****
CT 80000	KY 80000	MT 80000	NV 80000	SC 80000	WV 80000	** ****
DC 80000	LA 80000	NB 36287k	NY 80000	SD 80000	WY 80000	** ****
DE 80000	MA 80000	NC 80000	OH 80000	SK 36287k	** ****	** ****

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3. Your insurance ID card must be with the vehicle when it is being operated
4. A new owner may not drive under this registration

Owners Signature Allen Harim Foods LLC BY James P. Gull

****WARNING****

IRP registration is NOT transferable to a new owner. Please contact our office at 302-744-2702 if you have any questions.



M31 EXPIRES
A R 20
 CL118607

ALLEN HARIM FOODS, LLC

DAGSBORO HATCHERY 2

ALLEN HARIM OPERATIONS PLAN

EXAMPLE OF MANIFEST

SPCC PLAN – COVER

ALLEN HARIM HARBESON TRUCK WASH



Allen Harim Foods, LLC
Dagsboro Hatchery 2
26887 Nine Foot Road
Dagsboro, DE 19939
Phone (302) 732-9511

ALLEN HARIM OPERATIONS PLAN

1. Spill Reporting and Clean-up Plan

The Dagsboro Hatchery wash down water will be hauled to the Allen Harim Harbeson WWTP in accordance with the Spray Irrigation Permit for the Hatchery. Allen Harim has SPCC "Spill Prevention Controls and Countermeasures" plans on site at the Harbeson Processing Facility and the Dagsboro Hatchery (see attached photo). These written plans which have been reviewed and approved by DNREC. Each plan has a written procedure for Spill Reporting and Clean-up. Each facility has Spill Kits ready for use in the event of a spill. If the spill is large or off site of the Harbeson and/or Dagsboro facilities; Allen Harim uses Chesapeake Environmental, LLC for emergency response to clean up these spills.

2. Plans for Cleaning Vehicles

The Allen Harim Harbeson Processing Plant has a designated Truck Wash Bay (see attached photo). All water used for truck washing is discharged to the Harbeson WWTP. No trucks are washed outside of the Truck Wash Bay. The trucks and tanker associated with the hauling from Dagsboro to Harbeson will be washed in the Truck Wash Bay. Trucks and Tankers will be washed on a regular basis or as need basis.

3. Recordkeeping Procedures

Allen Harim will track every load hauled with a manifest. The manifest will include the tare and net weights of each Truck and Tanker. The manifest will include; date, time, generator name, generator address, description of waste stream, Truck and Trailer weights, Driver name, Truck number, Tank number, disposal date, disposal time and destination for disposal. See attached example Manifest. A spread sheet will also be kept that will show daily loads. A new sheet will be started at the beginning of the month.

4. Days and Hours of Operation

The Dagsboro Hatchery operates 24 hours per day, 7 days per week. Wednesday is the only down day when water usage is minimal. Allen Harim will haul the hatchery water on an as need basis. The goal is to maintain a two foot freeboard in the lagoon where the water is loaded into the truck.



Allen Harim Foods, LLC
Dagsboro Hatchery 2
26887 Nine Foot Road
Dagsboro, DE 19939
Phone (302) 732-9511

MANIFEST

DATE LOADED: _____ TIME: _____

Generator Name: Allen Harim Dagsboro Hatchery 2

Facility Location: 26887 Nine Foot Road
Dagsboro, DE 19939

Waste Description: Hatchery Wash Down Water

Truck and Tanker Weights

Gross _____

Tare _____

Net _____

Gallons _____

Driver Name: _____ Truck Number _____ Tank Number _____

Disposal Date: _____ Disposal Time: _____

Destination of Load or Site Name: Allen Harim Harbeson WWTP



**SPILL PREVENTION, CONTROL and COUNTERMEASURE PLAN
(SPCC)**

**ALLEN HARIM FOODS, LLC.
18752 HARBESON ROAD
HARBESON, DE 19951
302.684.1640**

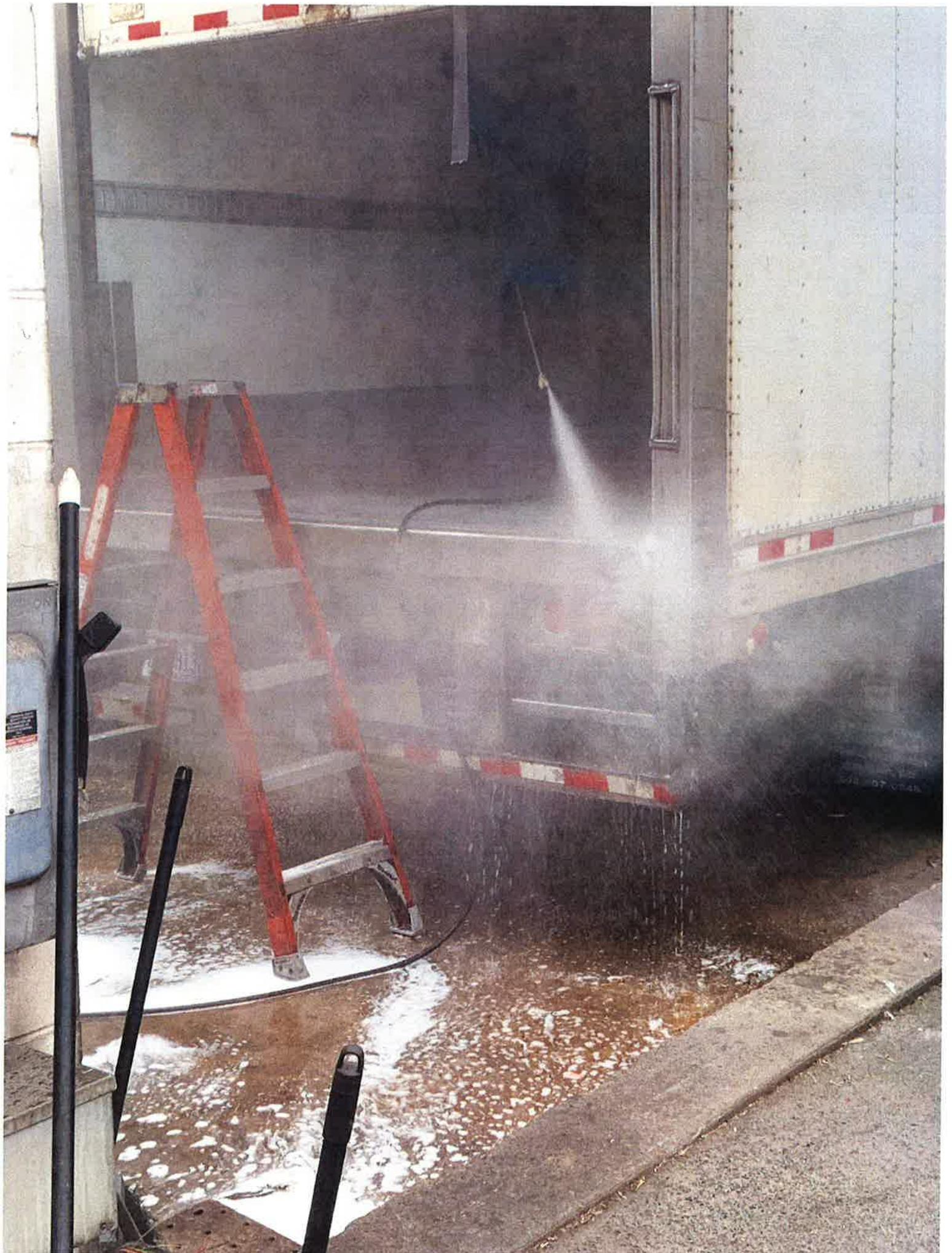
Original: December 4, 2011

Revision: June 1, 2016

Prepared By: RainWise Environmental Solutions, LLC

8 East Darby Circle Dover, DE 19904

Next Update Due: June 1, 2021



ALLEN HARIM FOODS, LLC

DAGSBORO HATCHERY 2

ALLEN HARIM HARBESON WWTP

SECTION E. OTHER NON-HAZARDOUS LIQUID WASTES



Allen Harim Foods, LLC
Dagsboro Hatchery 2
26887 Nine Foot Road
Dagsboro, DE 19939
Phone (302) 732-9511

SECTION E.

1. Describe the source, nature and make-up of the non-hazardous liquid waste to be transported.

The Allen Harim Dagsboro Hatchery 2 incubates chicken eggs and hatches baby chicks to be transported to the Farms for 6 to 7 weeks of growth. The Hatchery is washed down daily using cleaning chemicals that have all been approved by the Environmental, Safety and QA Departments. This wash down water is non-hazardous. Allen Harim samples the Dagsboro wash down water once per week (see attached analytical). The wash down water is discharged to an on-site 150,000 gallon lagoon.

ALLEN HARIM FOODS, LLC

DAGSBORO HATCHERY 2

ALLEN HARIM HARBESON WWTP

AUTHORIZATION LETTER TO DISCHARGE

SPRAY IRRIGATION PERMIT DEN 358994-04 PAGE 5 of 22

SPRAY IRRIGATION PERMIT DEN 358994-04 PAGE 22 of 22



Allen Harim Foods, LLC
Dagsboro Hatchery 2
26887 Nine Foot Road
Dagsboro, DE 19939
Phone (302) 732-9511

October 4, 2019

To Whom It May Concern:

Allen Harim Harbeson WWTP is the current disposal site for the Dagsboro Hatchery 2 brine water and Hatchery wash down water. Disposal of the hatchery wash down water at the Harbeson WWTP is allowed as stated in the Spray Irrigation Permit DEN Number 358994-04 (Page 5 of 22 – see attached). Disposal of hatchery brine water is also allowed under the same permit (Page 22 of 22 – see attached).

Allen Harim Foods, LLC will continue with disposal of wash down and brine water at the Harbeson WWTP in accordance with past practice and permit conditions. As Direct Responsible Charge (DRC) Operator, on behalf of Allen Harim, I am authorizing the disposal of these wastes at the Allen Harim Harbeson WWTP.

If there should be any questions, please do not hesitate to contact me.

Respectfully submitted,
ALLEN HARIM FOODS, LLC

Michael R. Sausé
Environmental Manager
Direct Responsible Charge Operator
Allen Harim Harbeson WWTP

C. INFLUENT LIMITATIONS

1. N/A

D. SPRAYED EFFLUENT LIMITATIONS

During the period beginning on the effective date and lasting through the expiration date of this permit, the Permittee is authorized to discharge to the spray irrigation field(s) identified on page 1 and depicted on page 3 of this permit the quantity and quality of effluent specified below and in accordance with the design documents listed in Part I.A of this permit:

1. Design Disposal Capacity: The average monthly quantity of effluent discharged from the processing plant to the spray fields shall not exceed 15,000 gallons per day (gpd) in any calendar month.
2. Spray irrigation is prohibited annually from December 1 through February 28. During these months, wastewater generated at the hatchery may only be disposed of at the Allen Harim Farms' wastewater treatment facility at Harbeson Sussex County, Delaware, in accordance with State of Delaware, Non-Hazardous Liquid Transporters Permit OH-503.
3. In the event that groundwater is within twenty-four inches of the soil surface, spray irrigation is prohibited. The permittee shall monitor the depth to water in the monitoring and observation wells listed in Part I.H.4 prior to irrigation each day that spray irrigation is to occur. If the piezometer readings show the groundwater table to be within twenty-four inches of the soil surface, spray irrigation is prohibited and the wastewater shall then be transported to the Allen Harim Farms' wastewater treatment plant in Harbeson, Delaware.
4. The average weekly quantity of effluent discharged to any portion of the spray irrigation field shall not exceed 1.0 inch per acre averaged over a 7 day rolling period.
5. The quantity of effluent discharged to any portion of the spray irrigation field shall not exceed 0.25 inch/acre/hour.
6. There shall be a minimum rest period of twenty-four (24) hours between applications on each section of the spray field.
7. The pH of the effluent shall not be less than 5.5 standard units nor greater than 9.0 standard units.
8. The Chloride concentration of the effluent shall not exceed 250 mg/L on an average annual basis.
9. The Sodium concentration of the effluent shall not exceed 210 mg/L on an average annual basis.
10. The total amount of nitrogen that may be applied to each spray field acre shall not exceed 260 lbs/year. This amount includes supplemental fertilizers, the nitrogen supplied from the effluent, and any other source. The limitation of total nitrogen that can be applied to each acre may be adjusted by the Ground Water Discharges Section if it can be shown through subsequent analysis of the crop removed that the total nitrogen removed with the crop is equal to the amount applied from the effluent and additional fertilizer applications. Supplemental additions of commercial fertilizers shall be limited to amounts necessary to meet crop needs in accordance with the written recommendations of the University of Delaware Cooperative Extension Service, or a Delaware Certified Crop Advisor, for the specified crop and anticipated yield.
11. The discharge to the spray irrigation fields shall be free from material such as floating solids, sludge deposits, debris, scum, oil and grease in quantities that would be deleterious to the proper operation and maintenance of the spray fields.

14. In the event that the Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems or applicable federal regulations are revised, this permit may be opened and modified accordingly after notice and opportunity for a public hearing.
15. This permit supersedes all previous spray irrigation permits issued to the Permittee.

B. FACILITY SPECIFIC CONDITIONS

1. There shall be a classification performed on the permitted facility in accordance with Regulations Licensing Operators of Wastewater Facilities. The required operator's classification level will be determined by a classification on the facility. The facility must be under the direction of a licensed operator in Direct Responsible Charge for the facility who is available at all times. A licensed operator, operating under the direction of the licensed operator in Direct Responsible Charge for the facility, must be available when the spray irrigation system is in operation.
2. Brine water from the reserve osmosis water treatment system may not be discharged to the spray irrigation fields. Brine water may only be transported to the Harbeson facility for final disposal.



51 Clark St. Harrington, DE 19952

PH: 302.398.4313 FX: 302.398.4312

ANALYTICAL SERVICES: NPDES, RCRA, GROUND WATER MONITORING

ANALYTICAL RESULTS

Allen Harim Farms, LLC - Dagsboro

P.O. Box 277

Harbeson, DE 19951

Attention: Michael Sause

Lab ID: 276739	Matrix: Waste Water	Sample Start: 5/16/19 10:50
Description:	Site: Dagsboro - New	SampleEnd:
Type: Grab		Date Received: 5/17/19 10:07

Client Name	Unit	ICG#	Sample Date	BY	MP Status
-------------	------	------	-------------	----	-----------

Miscellaneous/Other

SHIP	Completed	6/14/19 14:38	PA	None
------	-----------	---------------	----	------

ND = Not Detected
* = Above Specified Limit
** = Above Client Limit

June 14, 2019

Shelly Bloom
Envirocorp Labs, Inc.
51 Clark Street
Harrington, DE 19952

RE: Project: 276739 - Allen Dagsboro
Pace Project No.: 30295424

Dear Shelly Bloom:

Enclosed are the analytical results for sample(s) received by the laboratory on May 21, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

The samples were subcontracted to Dr. Clifford Lange, Auburn University, 1251 Ingleside Drive, Auburn AL, 36830 for QAC analysis. The results of this analysis are reported on the data tables attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Samantha Merrill
samantha.merrill@pacelabs.com
(570)326-4001
Project Manager

Enclosures

cc: Erin Bichy, Envirocorp Labs

Ashley Burns, Envirocorp Labs



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

June 14, 2019
Page 2

cc: Rachael Needam, Envirocorp Labs



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

SAMPLE SUMMARY

Project: 276739 - Allen Dagsboro
Pace Project No.: 30295424

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30295424001	276739 - Dagsboro New	Water	05/16/19 10:50	05/21/19 11:00

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: Envirocorp Labs, Inc.
Address: 51 Clark Street

Billing Information: Same

Report To: Shelly Bloom

Email To: shelly@envirocorp.com, rachael@envirocorp.com

Copy To: Erin Bichy, Ashley Burns, Rachael Needam

Site Collection Info/Address:

Customer Project Name/Number:

State: County/City: Time Zone Collected:

Site/Facility ID #:

DE / SUSSEX [JPT [JMT [JCT [XJET

Collected By (print):

[] Yes [] No

Quote #:

DW PWS ID #:

Turnaround Date Required:

Immediately Packed on Ice:

Sample Disposal:

[] Same Day [] Next Day

[] Archive:

[] Yes [] No

[] Hold:

Field Filtered (if applicable):

Matrix * WW

Analysis:

Customer Remarks / Special Conditions / Possible Hazards: 8

Collected (or Composite Start) Date Time

Product (P): Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Composite End Date Time

Customer Sample ID

Res CI

76739-Dagsboro New

5/16/19 10:50

1

Free Quaternary Amines (QAC)

Wet Blue Dry None

1

Packing Material Used: Ice

Customer Remarks / Special Conditions / Possible Hazards: 8

Radchem sample(s) screened (<500 cpm): Y N (NA)

Customer Sample ID

Received by/Company: (Signature)

76739-Dagsboro New

Received by/Company: (Signature)

1

Received by/Company: (Signature)

Customer Remarks / Special Conditions / Possible Hazards: 8

Received by/Company: (Signature)

Customer Sample ID

Received by/Company: (Signature)

76739-Dagsboro New

Received by/Company: (Signature)

1

Received by/Company: (Signature)

Customer Remarks / Special Conditions / Possible Hazards: 8

Received by/Company: (Signature)

Customer Sample ID

Received by/Company: (Signature)

76739-Dagsboro New

Received by/Company: (Signature)

1

Received by/Company: (Signature)

Customer Remarks / Special Conditions / Possible Hazards: 8

Received by/Company: (Signature)

Customer Sample ID

Received by/Company: (Signature)

76739-Dagsboro New

Received by/Company: (Signature)

1

Received by/Company: (Signature)

Customer Remarks / Special Conditions / Possible Hazards: 8

Received by/Company: (Signature)

Customer Sample ID

Received by/Company: (Signature)

76739-Dagsboro New

Received by/Company: (Signature)

1

Received by/Company: (Signature)

LAB USE ONLY - Affix W

WO#: 30295424



30295424

ALL SH

Container Preservat

U

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line: Lab Sample Receipt Checklist: Custody Seals Present/Intact Y/N NA, Custody Signatures Present Y/N NA, Collector Signature Present Y/N NA, Bottles Intact Y/N NA, Correct Bottles Y/N NA, Sufficient Volume Y/N NA, Samples Received on Ice Y/N NA, VOA - Headspace Acceptable Y/N NA, USDA Regulated Soils Y/N NA, Samples in Holding Time Y/N NA, Residual Chlorine Present Y/N NA, Cl- Strips: Y/N NA, Sample pH Acceptable Y/N NA, pH Strips: 2.34/6 Y/N NA, Sulfide Present Y/N NA, Lead Acetate Strips: Y/N NA

LAB USE ONLY: Lab Sample # / Comments:

LAB Sample Temperature Info: Temp Blank Received: 6 NA, Therm ID#: NA, Cooler 1 Temp Upon Receipt: 0.0, Cooler 1 Therm Corr. Factor: 0.0, Cooler 1 Corrected Temp: 0.0, Comments:

Trip Blank Received: Y/N NA, HCL MeOH TSP Other, Non Conformance(s): YES/NO, Page: of:

WO# : 30295424

PM: SLM Due Date: 06/03/19
CLIENT: WP-ENVIROCOR



Sample Receiving Non-Conformance Form (NCF)

Date: 5/21/19	Evaluated by: REA
Client: Envirocorp	

Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here

1. If Chain-of-Custody (COC) is not received: contact client and if necessary, fill out a COC and indicate that it was filled out by lab personnel. Note issues on this NCF.

2. If COC is incomplete, check applicable issues below and add details where appropriate:

Collection date/time missing or incorrect	Analyses or analytes: missing or clarification needed	Samples listed on COC do not match samples received (missing, additional, etc.)
Sample IDs on COC do not match sample labels	Required trip blanks were not received	Required signatures are missing

Comments/Details/Other Issues not listed above:

3. Sample Integrity issues: check applicable issues below and add details where appropriate:

Samples: Past holding time	Samples: Condition needs to be brought to lab personnel's attention (details below)	Preservation: Improper
Samples: Not field filtered	Containers: Broken or compromised	Temperature: not within acceptance criteria (typically 0-6C)
Samples: Insufficient volume received	Containers: Incorrect	Temperature: Samples arrived frozen
Samples: Cooler damaged or compromised	Custody Seals: Missing or compromised on samples, trip blanks or coolers	Vials received with improper headspace
Samples: contain chlorine or sulfides	Packing Material: Insufficient/Improper	Other:

Comments/Details:

4. If Samples not preserved properly and Sample Receiving adjusts pH, add details below:

Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:
Sample ID:	Date/Time:	Amount/type pres added:
Preserved by:	Initial and Final pH:	Lot # of pres added:

5. Client Contact: If client is contacted for any issue listed above, fill in details below:

Client:	Contacted per:
PM Initials:	Date/Time:

Client Comments/Instructions:

The Non-Ionic Surfactants & Quaternary Amines associated with this work order are not NELAP accredited compounds and they are not listed on our subcontractor's Scope of Accreditation. These non-accredited analysis were however performed in accordance with the subcontractor's laboratory's Quality System requirements.

Pace Analytical Services LLC workorder 30295424

	30295424-001 total	30295424-001 free	5 ppm standard May 15, 2019
Total QACs, mg/g	2.7	0.4	Total QACs, mg/L
Octyl-benzyl-dimethylammonium chloride (8-C)	0	0	5.0 Octyl-benzyl-dimethylammonium chloride (8-C)
Decyl-benzyl-dimethylammonium chloride (10-C)	0.4	0	5.3 Decyl-benzyl-dimethylammonium chloride (10-C)
Dodecyl-benzyl-dimethylammonium chloride (12-C)	0.6	0.1	5.2 Dodecyl-benzyl-dimethylammonium chloride (12-C)
Tetradecyl-benzyl-dimethylammonium chloride (14-C)	0.8	0.2	5.1 Tetradecyl-benzyl-dimethylammonium chloride (14-C)
Hexadecyl-benzyl-dimethylammonium chloride (16-C)	0.3	0.1	4.9 Hexadecyl-benzyl-dimethylammonium chloride (16-C)
Octyl-dimethyl ammonium salt (8-C)	0	0	4.8 Octyl-dimethyl ammonium salt (8-C)
Decyl-dimethyl ammonium salt (10-C)	0	0	5.1 Decyl-dimethyl ammonium salt (10-C)
Dodecyl-dimethyl ammonium salt (12-C)	0.1	0	5.0 Dodecyl-dimethyl ammonium salt (12-C)
Tetradecyl-dimethyl ammonium salt (14-C)	0.2	0	5.0 Tetradecyl-dimethyl ammonium salt (14-C)
Hexadecyl-dimethyl ammonium salt (16-C)	0.1	0	5.2 Hexadecyl-dimethyl ammonium salt (16-C)
Octadecyl dimethyl ammonium salt (18-C)	0	0	5.1 Octadecyl dimethyl ammonium salt (18-C)
Cetyl dimethyl ammonium bromide	0	0	5.2 Cetyl dimethyl ammonium bromide
Cetyl Pyridinium chloride	0.2	0	4.9 Cetyl Pyridinium chloride
Non Ionic Surfactants, mg/gram	3.8	0.6	Non Ionic Surfactants
Polyoxyethylene stearate	0	0	5.0 Polyoxyethylene stearate
Polyoxyethylene propylene glycol lauryl alcohol ethoxylates	0	0	4.9 Polyoxyethylene propylene glycol lauryl alcohol ethoxylates
Palmitic acid ethoxylate	0.5	0.1	5.2 lauryl alcohol ethoxylates
Stearic acid ethoxylate	0.7	0.1	5.0 Palmitic acid ethoxylate
Myristic acid ethoxylate	0.9	0.2	5.1 Stearic acid ethoxylate
Oleic acid ethoxylate	0.5	0.1	5.0 Myristic acid ethoxylate
nonyl phenol ethoxylate	0.3	0	4.9 Oleic acid ethoxylate
Octyl phenol ethoxylate	0	0	5.1 nonyl phenol ethoxylate
polyoxyethylene mono-N-dodecyl-ether	0	0	5.2 Octyl phenol ethoxylate
polyoxyethylenesorbitan monooleate	0.8	0.1	5.1 polyoxyethylene mono-N-dodecyl-ether
Lauryl polyethylene glycol ethoxylate	0	0	4.8 polyoxyethylenesorbitan monooleate
cetyl alcohol	0	0	5.2 Lauryl polyethylene glycol ethoxylate
cocamide diethanol amine	0	0	5.1 cetyl alcohol
polyglyceryl-2-dipolyhydroxystearate	0	0	4.8 cocamide diethanol amine
			5.3 polyglyceryl-2-dipolyhydroxystearate

Appendix II



AUTHORIZATION TO OPERATE AND MAINTAIN
UNDER THE LAWS OF THE
STATE OF DELAWARE

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

Allen Harim Foods, LLC
P.O. Box 1380
Millsboro, DE 19966

is herein authorized to operate and maintain an on-site wastewater treatment and disposal system to service:

Allen Harim Harbeson Processing Facility

Located (tax map #: 2-35-30.00-0097.00):

18752 Harbeson Road, Harbeson, DE, Sussex County

To receive and treat:

Wastewater generated by poultry processing

And to dispose of:

Treated wastewater effluent via transfer to the Artesian Northern Sussex Regional Water Recharge Facility (ANSRWRF) for storage in a synthetically lined lagoon and final disposal via spray irrigation

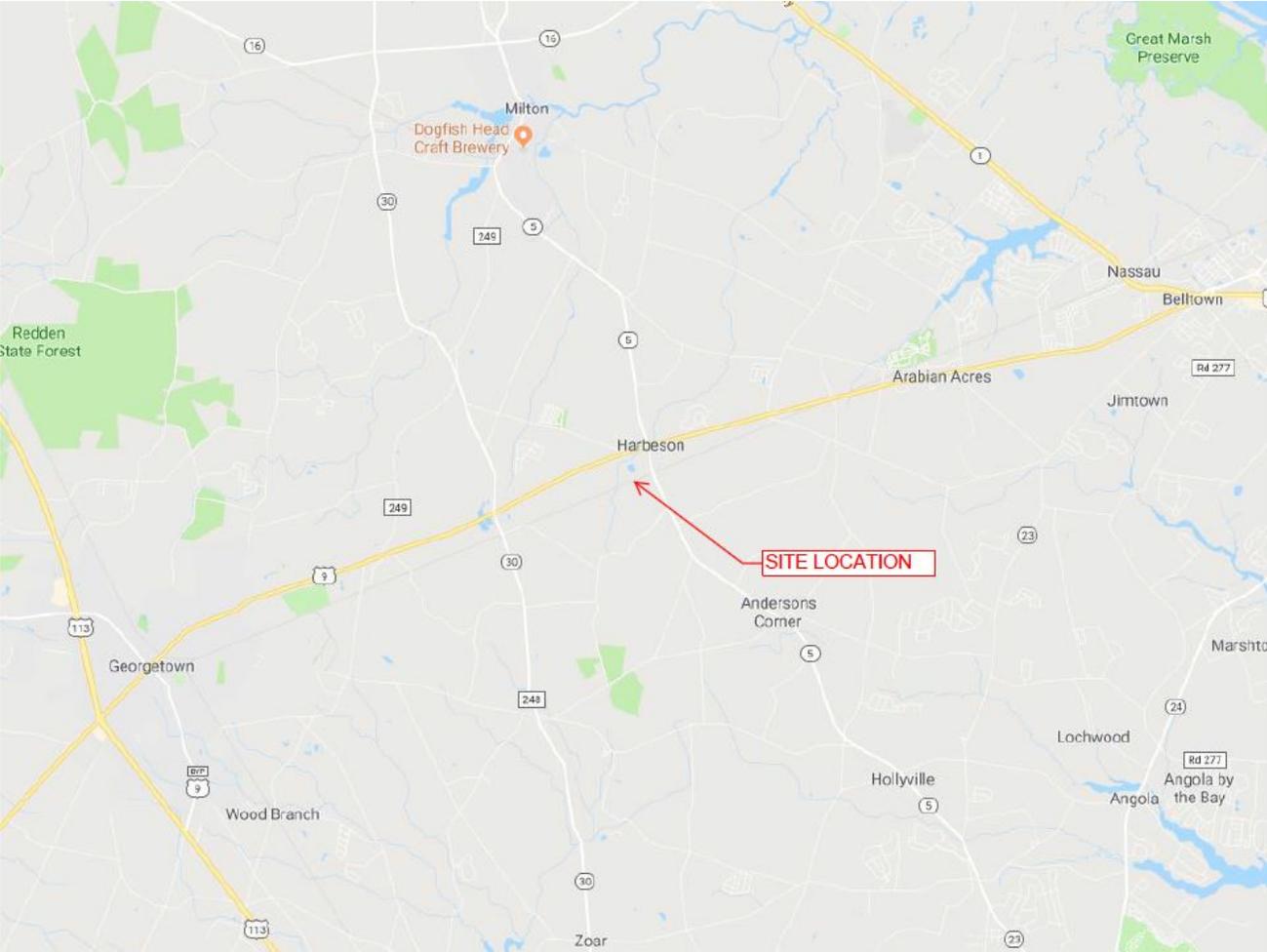
2. **The effluent limitations, monitoring requirements and other permit conditions are set forth in Part I, II and III hereof.**

John J. Rebar Jr., Program Manager I
Ground Water Discharges Section
Department of Natural Resources &
Environmental Control

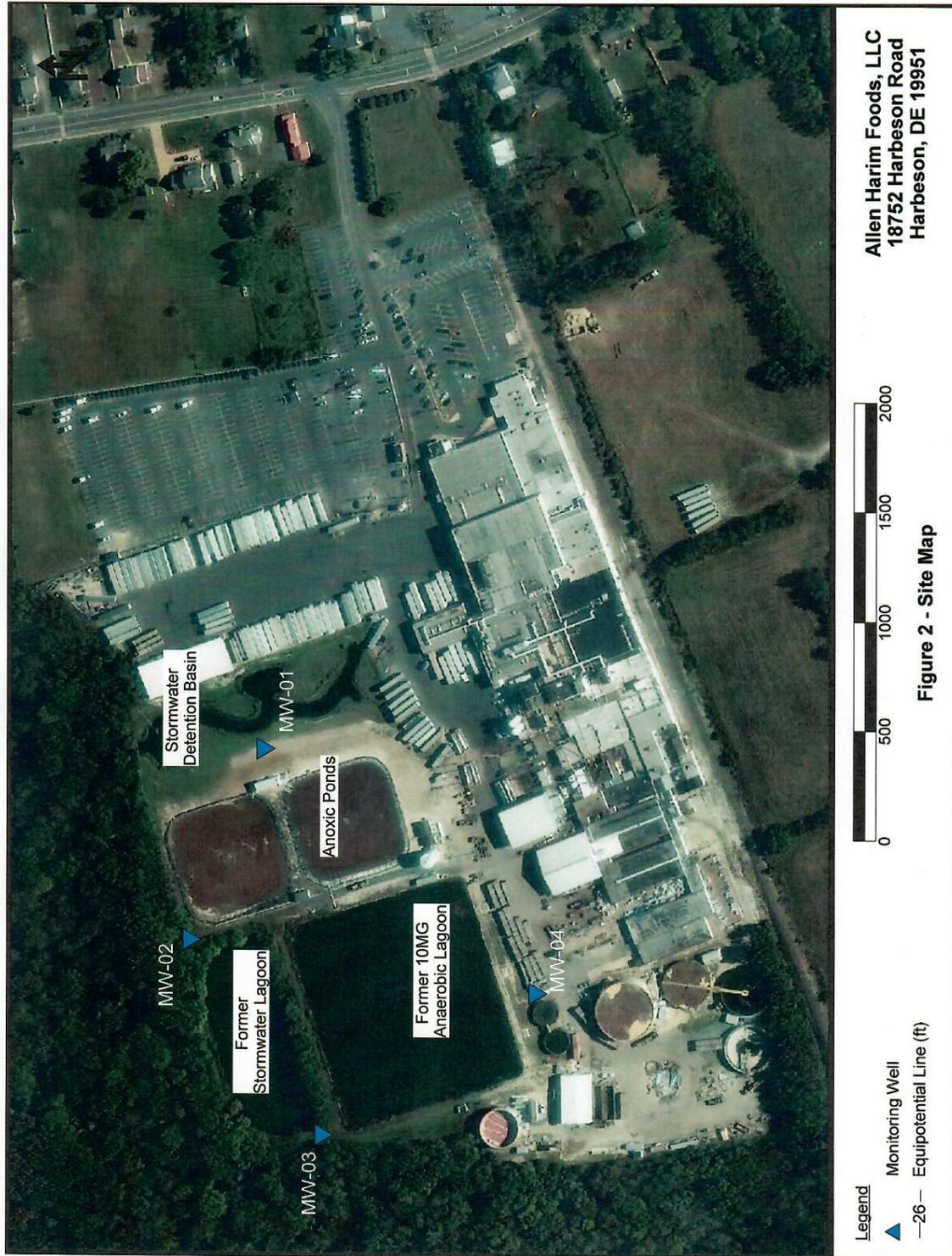
04/27/2021

Date

SITE LOCATION MAP



FACILITY SITE MAP



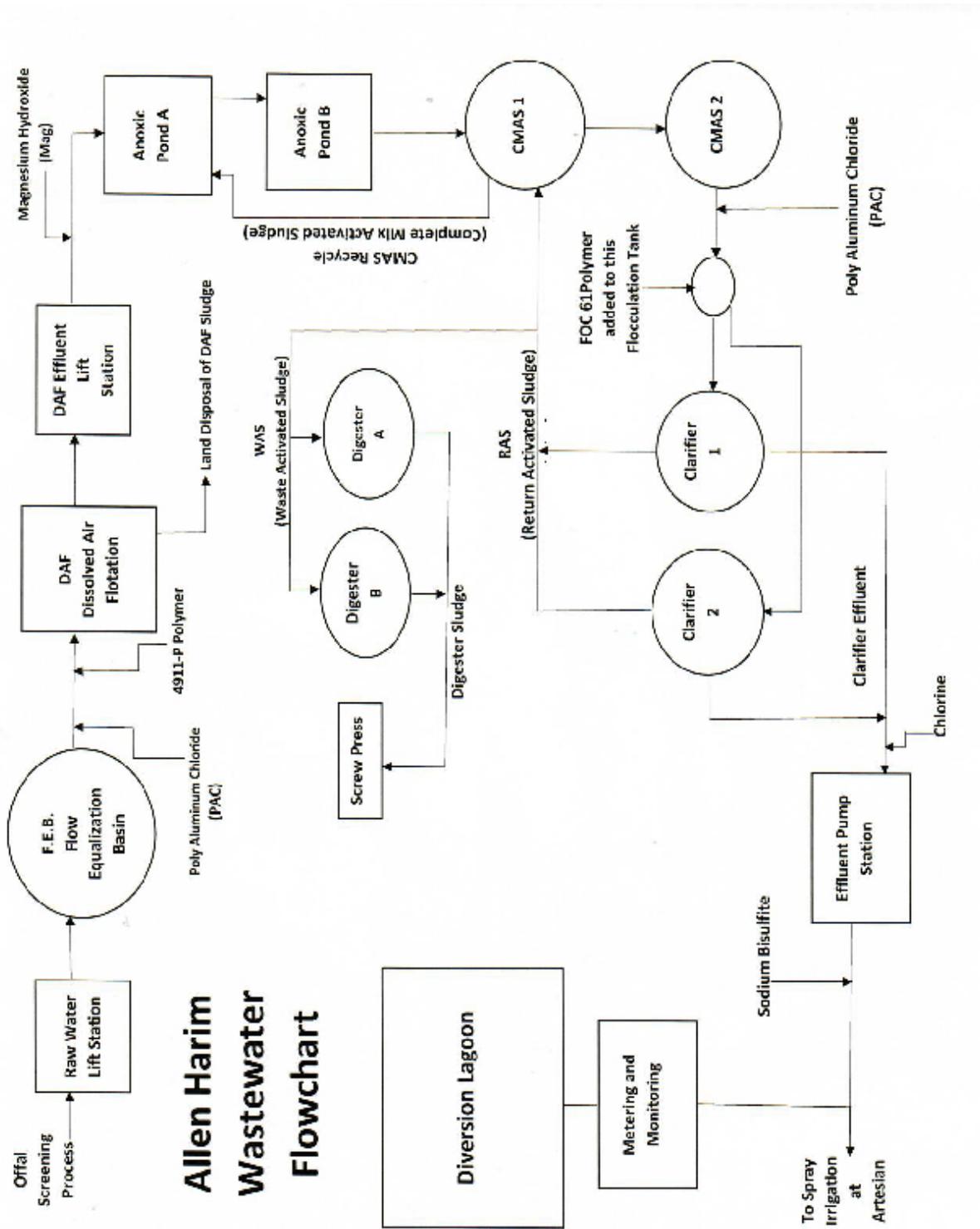
Allen Harim Foods, LLC
18752 Harbeson Road
Harbeson, DE 19951



Figure 2 - Site Map

Legend
▲ Monitoring Well
-26- Equipotential Line (ft)

PROCESS DIAGRAM



Allen Harim Wastewater Flowchart

Part I

A. Introduction

The Delaware Department of Natural Resources and Environmental Control, Division of Water, Groundwater Discharges Section (DNREC or the Department) issues this On-Site Wastewater Treatment and Disposal System Permit (State Permit No. 597261-01) to Allen Harim Foods, LLC (Permittee) pursuant to 7 Del. C. § 6003. DNREC's purpose in issuing this Permit, and in imposing the requirements and conditions specified herein, is for the protection of the environment and the public health as required by 7 Del. Admin. C. §7101 *Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems* (the Regulations).

B. Documentation

The application consists of the materials submitted by the Permittee and materials contained in the administrative record prior to the issuance of this Permit. This includes (but not limited to) the following information.

1. DNREC Application & Signature Form, received on August 4, 2018
2. Final Design Summary, dated November 23, 2015, Wastewater Treatment System Upgrades and Expansion for Allen Harim, LLC Harbeson, DE prepared by Reid Engineering Company, Inc.
3. Construction Plans, dated January 8, 2016, Wastewater Treatment System Upgrades and Expansion Phase One for Allen Harim, LLC Harbeson, DE prepared by Reid Engineering Company, Inc.
4. Record Drawing, dated March 13, 2019, Forcemain Piping Plan, Allen Harim, LLC Harbeson, DE prepared by Artesian Wastewater Management, Inc.
5. Wastewater Treatment System Operation and Maintenance Plan, received on July 24, 2019 and prepared by Allen Harim Foods, LLC
6. Response Letter from Allen Harim Foods, LLC, dated June 11, 2020
7. Extension Request Letter for Anaerobic Lagoon Cleanout Schedule from Allen Harim Foods, LLC, dated July 23, 2020
8. Email Request to Revise the Old Anaerobic Lagoon Cleanout Plan from Allen Harim Foods, LLC, dated April 1, 2021
9. Email Regarding Old Anaerobic Lagoon Cleanout Schedule from Allen Harim Foods, LLC, dated April 16, 2021

C. General Description of Discharge

The on-site wastewater treatment and disposal system is authorized to receive and treat poultry processing wastewater generated at the Allen Harim Harbeson Processing Facility; deboning process wastewater received from the Allen Harim Pinnacle Processing Facility and wash down water received from the Allen Harim Dagsboro Hatchery. The treatment system consists of primary screening, flow equalization basin, dissolved air floatation (DAF) unit, two (2) anoxic biological nutrient removal (BNR) basins, two (2) complete mix activated sludge (CMAS) basins, one (1) flocculation tank, two (2) clarifiers, and one (1) chlorine contact chamber. The treatment system also includes two (2) aerobic digesters and a screw press for sludge processing. The treatment system is also capable of diverting non-compliant wastewater to various on-site basins/lagoons followed by recirculation and re-treatment. Treated wastewater effluent is pumped via forcemain to the Artesian Northern Sussex Regional Water Recharge Facility

(ANSRWRF) for storage in a synthetically lined lagoon and final disposal via spray irrigation in accordance with State Permit No. 359288-02.

D. Influent Limitations

Beginning on the effective date and lasting through the expiration date of this Permit, the Permittee is authorized to receive and treat the quantity of influent specified below.

1. The average influent flow from the Allen Harim Harbeson Processing Facility shall not exceed two (2) million gallons per day (MGD).
2. The maximum influent flow from the Allen Harim Pinnacle Processing Facility shall not exceed 40,000 gallons per day (GPD).
3. The maximum influent flow from the Allen Harim Dagsboro Hatchery shall not exceed 40,000 GPD.

E. Effluent Limitations

Beginning on the effective date and lasting through the expiration date of this Permit, the Permittee is authorized to discharge to ANSRWRF the quantity and quality of effluent specified below.

1. The average effluent flow from the Allen Harim Harbeson Facility transferred to ANSRWRF shall not exceed 1.5 MGD averaged over a 7-day period and shall not exceed a peak daily flow of 2.0 MGD.
2. 5-Day Biochemical Oxygen Demand (BOD₅) daily average concentration shall not exceed 10 mg/l.
3. Fecal coliform concentration shall not exceed 20 col/100 ml at any time.
4. Total Nitrogen (as N) concentration daily average shall not exceed 30 mg/l.
5. Total Nitrogen (as N) concentration daily maximum shall not exceed 45 mg/l.
6. Total Suspended Solids (TSS) daily average concentration shall not exceed 10 mg/l.
7. Turbidity concentration shall not exceed 5 NTU at any time.
8. The pH of the effluent shall not be less than 5.5 standard units nor greater than 9.0 standard units at any time.
9. The total residual chlorine concentration shall not be less than 1.0 mg/L nor more than 4.0 mg/L at any time.

F. Schedule of Compliance

1. Within 60 days of the effective date of this Permit, the Permittee shall cease discharging treated process wastewater to Beaverdam Creek.
2. The Permittee shall complete clean-out operations, rehabilitate, and synthetically re-line the "old" anaerobic lagoon to be used as the permanent diversion option for non-compliant wastewater no later than 8 months from the effective date of this permit. The recently relined stormwater lagoon shall be used as a temporary diversion option in the interim.
 - i. The Permittee shall maintain records documenting the volume of sludge removed from the "old" anaerobic lagoon, as well as, sludge disposal location and submit this information to the Department monthly until the lagoon clean-out is complete.
3. No later than 14 calendar days following a date identified in the above schedule of compliance, the Permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of the noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

G. Monitoring Requirements

During the period beginning on the effective date and lasting through the expiration date of this Permit, the Permittee shall perform the following monitoring as specified below.

For samples required to be taken 'monthly' and/or 'twice per month', the samples for each monitoring location (i.e. influent, effluent, well, etc.) shall be taken a minimum of 14 days apart.

Requests for monitoring modifications shall be submitted to the Department in writing. Such requests shall clearly state the reason for and nature of the proposed modification and, where applicable, shall contain supporting scientific information, analysis, and justification. Requests will be addressed by the Department on a case by case basis.

1. Influent and Effluent Samples

Wastewater treatment system influent and effluent shall be sampled for the following parameters. Effluent shall be sampled following final treatment at the effluent pump station.

Parameter	Unit Measurement	Monitoring Frequency	Sample Type	
			Influent	Effluent
Flow	Gallons Per Day	Continuous	Recorded	Recorded
BOD ₅	mg/L	2 x Month	Grab	Composite
TSS	mg/L	2 x Month	Grab	Composite
Total Dissolved Solids	mg/L	Quarterly	NA	Grab
Fecal Coliform	Col/100 ml	Quarterly	NA	Grab
Total Nitrogen	mg/L	1 x Week	Grab	Composite
Ammonia Nitrogen	mg/L	Monthly	Grab	Composite
Nitrate/Nitrite as Nitrogen	mg/L	Monthly	Grab	Composite
pH	S.U.	3 x per week	Grab	Composite
Total Phosphorus	mg/L	Monthly	Grab	Composite
Chloride	mg/L	Quarterly	Grab	Composite
Turbidity	NTU	Continuous	N/A	Recorded
Total Residual Chlorine	mg/L	Continuous	N/A	Recorded
Potassium	mg/L	Quarterly	N/A	Composite
Sodium	mg/L	Quarterly	N/A	Composite

2. Monitoring Wells

The following monitoring wells

Local ID	DNREC ID
MW-01	260091
MW-02	260092
MW-03	260093
MW-04	260094

shall be sampled by the Permittee for the following parameters:

Parameter	Unit Measurement	Monitoring Frequency	Sample Type
pH	S.U.	Quarterly	Field Test
Temperature	°F	Quarterly	Field Test
Specific Conductance	µS/cm	Quarterly	Field Test
Dissolved Oxygen	mg/L	Quarterly	Field Test
Depth to Water Table	Hundredth of a foot	Quarterly	Field Test
Ammonia Nitrogen	mg/L	Quarterly	Grab
Nitrate + Nitrite Nitrogen	mg/L	Quarterly	Grab
Total Nitrogen	mg/L	Quarterly	Grab
Total Coliforms	Col/100 ml	Quarterly	Grab
Fecal Coliform	Col/100 ml	Quarterly	Grab
Total Phosphorus	mg/L	Quarterly	Grab
Sodium	mg/L	Quarterly	Grab
Chloride	mg/L	Quarterly	Grab
Total Dissolved Solids	mg/L	Quarterly	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at each monitoring well and observation well in accordance with procedures approved by the Department and listed in the *State of Delaware Field Manual for Groundwater Sampling* (Custer, 1988).

Groundwater monitoring results for each monitoring well shall be reported using the State of Delaware Well Identification Tag Number that is required on all wells in accordance with Delaware's *Regulations Governing the Construction and Use of Wells*, Section 11.1. All field sampling logs and laboratory results for samples obtained from a well shall be identified by the DNREC ID affixed to the well.

H. Monitoring Reporting

Annual Reporting Requirements

In accordance with Section 6.9 of the *Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems* (the Regulations), the Permittee shall submit to the Department an annual report summarizing operations, management, administration and maintenance of the facility for the calendar year. The annual report shall be submitted to the Department on or before February 28th of each year.

Monthly/Quarterly Requirements

Monitoring results obtained during the previous one month/quarter shall be summarized for each month/quarter and reported on an approved On-Site Effluent/Groundwater Monitoring Report Form postmarked no later than the 28th day of the month following the completed reporting period. Signed copies of these reports/forms, and all other reports or documentation (laboratory analytical results, sampling logs, and field data sheets, etc.) required herein shall be submitted to the Department at the following address:

Delaware Department of Natural Resources and Environmental Control
Ground Water Discharges Section
89 Kings Highway
Dover, DE 19901
Telephone: (302) 739-9948
Fax: (302) 739-7764

The Department may provide written requirements for the Permittee to submit monitoring data electronically. Upon notification from the Department, the Permittee shall transition (as directed) to the Department's electronic database system. The submission may need to be electronically signed.

I. Monitoring results reported as less than the detectible limit shall be reported with the less than symbol "<" before the detection limit. The full detection limit value shall be utilized in any necessary calculations. The less than symbol shall be carried through the calculation. The resulting value shall include any appropriate less than or greater than symbol resulting from the calculation.

J. Representative Samples

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

K. Test Procedures

Test procedures for the analysis of pollutants shall conform to the applicable test procedures identified in 40 C.F. R. Part 136 or the most recently adopted copy of Standard Methods unless otherwise specified in this Permit.

L. Quality Assurance Practices

The Permittee is required to show the validity of all monitoring data by requiring its laboratory to adhere to quality assurance practices in accordance with Section 6.8.2.4 of the Regulations.

M. Recording of Results

- i. For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:
 - a. The exact place, date and time of sampling and/or measurement;
 - b. The person(s) who performed the sampling and/or measurement;
 - c. The date(s) the analyses were performed and the time the analyses were begun;
 - d. The person(s) who performed the analyses; and
 - e. The results of each analysis.

N. Additional Monitoring by Permittee

If the Permittee monitors any pollutant at the location(s) designated herein more frequently than required by this Permit, using approved analytical methods specified herein, then the results of such monitoring shall be included in the calculation and reporting of the values required in the appropriate On-Site Effluent/Groundwater Monitoring Report Form. Such increased frequency shall also be indicated.

O. Records Retention

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

P. Facility Classification

A classification was performed on the permitted facility in accordance with *Regulations Licensing Operators of Wastewater Facilities*. The wastewater treatment system is designated as a Class IV Facility. The facility shall be under the direction of a Class IV Licensed Operator in Direct Responsible Charge for the facility who is available at all times. A licensed operator, operating under the direction of the licensed operator in Direct Responsible Charge for the facility, shall be available when the facility is in operation.

Part II

A. MANAGEMENT REQUIREMENTS

a. Duty to Comply

The Permittee shall comply with all the terms and conditions of this Permit.

The discharge of any pollutant more frequently than, or at a level in excess of that identified and authorized herein, shall constitute a violation of the terms and conditions of this Permit. The violation of any influent/effluent limitation or of any other condition specified in this Permit is a violation of 7 Del. C. Chapter 60 and is grounds for enforcement as provided in 7 Del. C., Chapter 60 "Enforcement; civil and administrative penalties; and expenses.", "Criminal Penalties." and "Cease and desist order." for Permit termination or loss of authorization to discharge pursuant to this Permit, for Permit revocation and reissuance, or Permit modification, or denial of a Permit renewal application. The Department may seek voluntary compliance by way of warning, notice or other educational means, pursuant to 7 Del. C., Chapter 60 "Voluntary compliance." or any other means authorized by Law. However, the Law does not require that such voluntary means be used before proceeding by way of compulsory enforcement.

b. Groundwater Requirements

Operation of the on-site wastewater treatment and disposal system shall not cause the quality of Delaware's groundwater resources to be in violation of applicable Federal or State Drinking Water Standards.

c. Facilities Operation

The Permittee shall at all times maintain in good working order and operate as efficiently as possible all collection and treatment facilities and systems (and related appurtenances) installed or used by the Permittee for water pollution control and abatement to achieve compliance with the terms and conditions of this Permit. Proper operation and maintenance include, but is not limited to, effective performance (based upon the facilities' design), adequate funding, effective management, adequate operator staffing and training, and adequate laboratory and process controls including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems, when necessary, to achieve compliance with the terms and conditions of this Permit.

An operator log shall be kept on site at all times. All records and reports shall also be kept on site at all times. This log shall, at a minimum, include the following:

- i. Time spent at the facility on any date;
- ii. Details of the operation and maintenance performed on the system on any date;
- iii. The volume of wastewater received and treated;
- iv. A record of any deviations from the operation and maintenance manual or permit

conditions;

- v. A record of any deviations from the operation and maintenance manual or any condition that required effluent diversion;
- vi. General daily weather conditions;
- vii. A record of all actions taken to correct violations of this Permit and the Department's regulations;
- viii. Record of all site management activities undertaken; and
- ix. Record the date and volumes, and destination of biosolids removed from the system. When biosolids are removed or transported from the facility, a copy of the biosolids hauling receipts with amounts removed shall be kept on file at the site.

d. Change in Discharge

Any usage authorized herein shall be consistent with the terms and conditions of this Permit. Any anticipated facility expansions, production increases, or process modifications which will result in new, different, or increased discharges shall be reported by submission of a written report to the Department with the following timelines:

- i. Thirty (30) days before any planned physical alteration or addition to the permitted facility or activity if that alteration or addition would result in any change in information that was submitted to the Department.
- ii. Thirty (30) days before any anticipated change which would result in noncompliance with any Permit condition or the Regulations.
- iii. Immediately after the Permittee becomes aware of relevant facts not submitted or incorrect information submitted in a Permit application or any report to the Department. Those facts or the correct information shall be submitted as soon as possible and be included as part of the report.

e. Noncompliance Notification

If, for any reason, the Permittee does not comply with or will be unable to comply with any limitation(s) or condition(s) specified in this Permit, the Permittee shall contact the Ground Water Discharges Section at 739-9948, within 24 hours of noncompliance issue(s) occurring.

The Permittee shall also provide the Ground Water Discharges Section with the following information, in writing, within five (5) days of becoming aware of such condition:

- i. A description of, and cause of noncompliance with any such limitation(s) or condition(s); and
- ii. The period of noncompliance, including exact dates and times; or, if not

corrected, the anticipated time the noncompliance is expected to continue;

- iii. Notification if diversion occurred and the volume of effluent diverted; and
- iv. The steps taken or planned to reduce, eliminate and prevent reoccurrence of the noncompliance(s).

f. Spill Reporting

In the event of any environmental release of pollutants (i.e., spill), the Permittee shall call the Department's 24-hour Emergency Release Reporting Hotline at (800) 662-8802.

The Permittee shall also notify the GWDS regarding any environmental release of pollutants (i.e., spill) into surface water or groundwater or on land, within 24-hours from the time the Permittee becomes aware of the release and activate their emergency site plan. In addition, the following information shall be reported to the GWDS within five days.

- 1. The facility name and location of release;
- 2. The chemical name or identity of any substance involved in the release;
- 3. An indication of whether the substance is an extremely hazardous substance;
- 4. An estimate of the quantity of any such substance that was released into the environment;
- 5. The time and duration of the release;
- 6. The medium or media into which the release occurred;
- 7. Any known or anticipated acute or chronic health risks associated with the emergency and, where appropriate, advice regarding medical attention necessary for exposed individuals;
- 8. Proper precautions to take as a result of the release, including evacuation;
- 9. The names and telephone number of the person or persons to be contacted for further information; and
- 10. Such other information as the GWDS may require.

g. Bypassing

The diversion of flow from any portion of the treatment facility's process flow (including, but not limited to, pretreatment, storage, distribution and land application) necessary to maintain compliance with the terms and conditions of this Permit is prohibited unless:

- a) The bypass is unavoidable to prevent personal injury, loss of life, severe property damage, or materially adversely affect public health and/or the environment; or
- b) There are no alternatives readily available.

The Groundwater Discharges Section shall be orally notified within 24 hours after such bypass; and, a written submission regarding the bypass shall be submitted within five days of the Permittee's becoming aware of the bypass. Where the need for a bypass is known (or should have been known) in advance, this notification shall be submitted to the Groundwater Discharges Section for approval at least ten days prior, or as soon as possible, before the date of bypass.

The treatment facility shall be repaired and restored to the permitted design operations process flow.

h. Adverse Impact

The Permittee shall take all reasonable steps to eliminate or minimize any adverse impact to waters of the State resulting from operating under this Permit, including such accelerated or additional monitoring as necessary to determine the source, nature, and extent of the impact from a noncomplying discharge. In addition, at the direction of the Department, the Permittee shall submit a timely corrective action plan which will include a description of the proposed actions to mitigate or eliminate the source of the impact and an associated completion schedule. The plan shall be enacted as approved by the Department.

i. Removed Substances

Solids, sludge, filter backwash or other pollutants removed in the course of treatment or control of wastewater shall be disposed of in a manner such as to prevent any pollutant from entering the surface water or ground water and to comply with applicable federal or state laws and regulations.

j. Power Failures

An alternative power source, which is sufficient to operate the wastewater treatment and disposal facilities, shall be available. If such alternative power source is not available, the Permittee shall halt, reduce or otherwise control production and/or all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater facilities.

B. RESPONSIBILITIES

a. Reapplication for a Permit

At least 180 days prior to the expiration date of the Operation Permit, the Permittee shall submit an application for renewal or notify the Department of the intent to cease discharging by the expiration date. The application package for systems with a design flow $\geq 100,000$ GPD, shall include a five (5) year Compliance Monitoring Report (CMR) in accordance with Section 6.5.4.3 of the Regulations.

In the event that a timely and complete application has been submitted as determined by the Department, and the Department is unable, through no fault of the Permittee, to issue a new permit before the expiration date of this Permit, the terms and conditions of this Permit are automatically continued and remain fully effective and enforceable until a decision is made on the new application.

b. Right of Entry

The Permittee shall allow, at reasonable times, the Secretary of the Department of Natural Resources and Environmental Control, or his authorized representatives, upon the presentation of credentials and such other documents as may be required by law:

- i. To enter upon the Permittee's premises where the on-site wastewater treatment and disposal system is located or where any records are required to be kept under the terms and conditions of this Permit;
- ii. To have access to and copy any records required to be kept under the terms and conditions of this Permit;
- iii. To inspect any facility, equipment, monitoring method, monitoring equipment, practice or operation permitted or required under this Permit; and
- iv. To sample or monitor for the purpose of assuring Permit compliance with any condition of this Permit, the Regulations or 7 Del C., Chapter 60.

c. Transfer of Ownership and Control

No person shall transfer a Permit from one location to another or from one piece of equipment to another. No person shall transfer a Permit from one person to another unless thirty days written notice is given to the Department, indicating the transfer is agreeable to both persons, and approval of such transfer is obtained in writing from the Department, and any conditions of the transfer approved by the Department are complied with by the transferor and the transferee.

The notice to the Department shall contain a written agreement between the transferor and the transferee, indicating the specific date of proposed transfer of permit coverage and acknowledging responsibilities of current and new Permittees for compliance with and liability for the terms and conditions of this Permit. The notice shall be signed by both the transferor and the transferee.

d. Availability of Reports

All reports prepared in accordance with the terms of this Permit shall be available for public inspection at the offices of the Department of Natural Resources and Environmental Control. Monitoring data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in 7 Del. C., §6013.

e. Permit Revocation

The Department may revoke a Permit if, among other things, the Permittee violates any Permit condition, these regulations, fails to pay applicable Departmental fees, obtains the permit by misrepresentation or fails to fully disclose all relevant facts.

Except in cases of emergency, the Department shall issue a written notice of intent to revoke to the permittee prior to final revocation. Revocation shall become final within

20 days of receipt of the notice by the Permittee, unless within that time the permittee requests an administrative hearing in writing.

The Department shall notify the Permittee in writing of any revocation hearing at least 20 days prior to the date set for such hearing.

If the Department finds the public health, safety or welfare requires emergency action, the Department shall incorporate findings in support of such action in a written notice of emergency revocation issued to the permittee. Emergency revocation shall be effective upon receipt by the Permittee. Thereafter, if requested by the Permittee in writing, the Department shall provide the permittee a revocation hearing.

f. Permit Modifications/Amendments

In consultation with the Permittee, the Department may modify or amend an existing permit provided that the modifications would not result in an increased impact or risk to the environment or to public health.

g. State Laws

This Permit shall not be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation.

h. Property Rights

The issuance of this Permit does not convey any property rights of either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.

i. Severability

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

PART III

A. SPECIAL CONDITIONS

a. Nitrogen Process Control Testing and Diversion Indicators

The Permittee shall perform process control testing using various field tests (e.g., on-site colorimetric or spectrophotometers instruments). If field tests indicate that either Nitrate as Nitrogen or Total Nitrogen concentrations exceed 25 mg/L than the Permittee shall perform operational adjustments to the denitrification process and additional laboratory testing will also begin.

If laboratory testing confirms that treated wastewater concentrations exceed 30 mg/L for either Nitrate as Nitrogen or Total Nitrogen than the Permittee shall notify the Department to determine if treated wastewater is required to be diverted on-site for retreatment. If required, the treated wastewater shall be immediately diverted for storage and retreatment.

If laboratory testing confirms that treated wastewater concentrations exceed 45 mg/L for either Nitrate as Nitrogen or Total Nitrogen than the Permittee shall immediately diverted the treated wastewater for storage and retreatment.

The Permittee shall perform Nitrate as Nitrogen or Total Nitrogen laboratory testing daily until effluent limitations are achieved.

The Permittee shall sample the effluent for the following diversion parameters using field tests and other Department approved methods:

Parameter	Unit Measurement	Monitoring Frequency	Sample Type
			Effluent
*BOD ₅	mg/L	1 x Week	Grab
COD	mg/L	5 x Week	Grab
Nitrate	mg/L	Daily	Composite & Grab
Total Nitrogen	mg/L	Daily	Composite & Grab
Dissolved Oxygen	mg/L	5 x Week	Grab

* After 1 year the BOD₅ testing monitoring frequency shall be 2 times per month.

b. Fecal Coliform Bacteria and Turbidity Diversion Requirements

In the event that analytical results of treated wastewater effluent sample indicate an exceedance of any of the maximum limitations for fecal coliform bacteria or turbidity set by this Permit, the Permittee shall collect and analyze a second sample within 24-hours after becoming aware of the exceedance. In the event the second sample results indicate that any maximum limitation is continuing to be exceeded, the following contingency plan shall be enacted.

- 1) Notify the Department that the contingency plan is being enacted in accordance with Part II A(d) of this Permit.
- 2) Submit copies of the recent analytical results indicating an exceedance to the Department.
- 3) Immediately cease transferring wastewater to ANSRWRF and divert non-compliant wastewater for on-site storage and re-treatment.
- 4) Examine operation and maintenance log for improper operational procedures.
- 5) Conduct a physical inspection of the treatment system to detect abnormalities. Any abnormalities discovered shall be corrected.

When the analytical results from samples of treated wastewater effluent no longer indicate an exceedance of any of the maximum limitations, the Permittee shall notify the Department and may resume transferring treated wastewater effluent to ANSRWRF.

- c. The Permittee shall record the volume of wastewater received from Allen Harim Pinnacle Processing Facility and wash down water received from the Allen Harim Dagsboro Hatchery daily. The daily and total volumes from each facility shall be submitted to the Department with the monthly effluent monitoring report submittals.
- d. Connections or additions to the on-site wastewater treatment system other than those indicated on the approved plans will not be allowed without prior approval of the Department.
- e. In the event that the permittee installs new monitoring wells or replaces any existing monitoring wells, the Permittee shall submit to the Department's Groundwater Discharges Section new elevation details relative to the common benchmark previously established. Additionally, the permittee shall conduct a groundwater quality sampling program prior to initiation of wastewater disposal activities on the area incorporating the well. The sampling program shall be sufficient to establish representative groundwater quality at each well prior to initiation of the wastewater disposal activities. A minimum of three samples shall be collected at least one month apart and analyzed. A summary report detailing all analyses shall be submitted to the Department's Groundwater Discharges Section prior to initiation of wastewater disposal activities. Analyses shall include the parameters iterated in Section 6.8.1 of the Regulations.
- f. A valid sludge hauling contract shall be maintained for the life of the system. A copy of the waste manifest shall be made available to the Department during the annual compliance inspection or upon request. Any changes in the sludge haulers shall be reported to the Department immediately.
- g. This permit does not relieve the permittee of complying with any other applicable Federal, State or local regulations.
- h. The Department will conduct an annual compliance inspection with the facility's operator of the on-site wastewater treatment and disposal system. An inspection fee will be charged.
- i. The Permittee shall calibrate all flow meters in accordance with the Manufacturer's recommendations. Calibration shall include, but not be limited to influent, effluent, continuous online turbidity and chlorine residual monitors. The calibration documentation shall be submitted to the Department with the annual report.
- j. At least three feet of freeboard, measured vertically from the lowest point of the berm, is required for all storage ponds. The lowest point of the berm must be determined and marked.

The Permittee must notify the Department's Groundwater Discharges Section in writing prior to utilizing the freeboard in any lagoon or immediately upon unexpected encroachment into freeboard. In the event of encroachment into freeboard, Permittee

shall contact the Groundwater Discharges Section to coordinate relief measures. In the event of an emergency, Permittee may contact the Department at 302-739-9948; however, written notification must subsequently be provided within 5 days of encroachment.

- k. The Permittee shall operate and maintain the on-site wastewater treatment and disposal system in accordance with the facility's design and the approved Operation and Maintenance Plan (O&M). A copy of the O&M shall be on-site at all times. The Permittee shall maintain the O&M's accuracy and applicability in accordance with both their Permit and the Regulations. In the event of a discrepancy between the O&M or the facility's and the Permit or Regulations, the requirements of the Permit and the Regulations would govern.

- l. Additional Information

The Permittee shall furnish to the Department within a specified period of time, any information including copies of records, which may be requested by the Department to determine whether cause exists for modifying, revoking, reissuing, or terminating the permit, or to determine compliance with the permit and the Regulations.

A report shall be submitted to the Department within five (5) days of completion of the emergency repairs. The report shall summarize the nature of the emergency and the repairs performed. All violations shall also be reported in accordance with Section 6.5.9 of the Regulations.

- m. Emergency Repairs

Emergency repairs or the replacement of critical "like kind" components of the wastewater treatment facility necessary for the continued operation of the facility may be performed without first obtaining a construction permit from the Department.

A report shall be submitted to the Department within five (5) days of completion of the emergency repairs. The report shall summarize the nature of the emergency and the repairs performed. All violations shall also be reported in accordance with Section 6.5.9.

- n. Wastewater Treatment System Closure/Abandonment

In the event the wastewater treatment facility, or a component of the facility, is proposed to be abandoned, the permittee shall submit a proposed closure and abandonment work plan with procedures on how the facility will be abandoned for review and approval by the Department. The work plan shall address remediation if monitoring data indicates impacts to the environment. Upon review and approval of the work plan and completion of all closure and abandonment actions the permittee must contact the Department for a final inspection of the site.

Appendix III

The Non-Ionic Surfactants & Quaternary Amines associated with this work order are not NELAP accredited compounds and they are not listed on our subcontractor's Scope of Accreditation. These non-accredited analysis were however performed in accordance with the subcontractor's laboratory's Quality System requirements.

Pace Analytical Services LLC workorder 30295424

	30295424-001 total	30295424-001 free	30295424-001 5 ppm standard May 15, 2019	
Total QACs, mg/g	2.7	0.4	Total QACs, mg/L	
Octyl-benzyl-dimethylammonium chloride (8-C)	0	0	5.0 Octyl-benzyl-dimethylammonium chloride (8-C)	
Decyl-benzyl-dimethylammonium chloride (10-C)	0.4	0	5.3 Decyl-benzyl-dimethylammonium chloride (10-C)	
Dodecyl-benzyl-dimethylammonium chloride (12-C)	0.6	0.1	5.2 Dodecyl-benzyl-dimethylammonium chloride (12-C)	
Tetradecyl-benzyl-dimethylammonium chloride (14-C)	0.8	0.2	5.1 Tetradecyl-benzyl-dimethylammonium chloride (14-C)	
Hexadecyl-benzyl-dimethylammonium chloride (16-C)	0.3	0.1	4.9 Hexadecyl-benzyl-dimethylammonium chloride (16-C)	
Octyl-dimethyl ammonium salt (8-C)	0	0	4.8 Octyl-dimethyl ammonium salt (8-C)	
Decyl-dimethyl ammonium salt (10-C)	0	0	5.1 Decyl-dimethyl ammonium salt (10-C)	
Dodecyl-dimethyl ammonium salt (12-C)	0.1	0	5.0 Dodecyl-dimethyl ammonium salt (12-C)	
Tetradecyl-dimethyl ammonium salt (14-C)	0.2	0	5.0 Tetradecyl-dimethyl ammonium salt (14-C)	
Hexadecyl-dimethyl ammonium salt (16-C)	0.1	0	5.2 Hexadecyl-dimethyl ammonium salt (16-C)	
Octadecyl dimethyl ammonium salt (18-C)	0	0	5.1 Octadecyl dimethyl ammonium salt (18-C)	
Cetyl dimethyl ammonium bromide	0	0	5.2 Cetyl dimethyl ammonium bromide	
Cetyl Pyridinium chloride	0.2	0	4.9 Cetyl Pyridinium chloride	
Non Ionic Surfactants, mg/gram	3.8	0.6	Non Ionic Surfactants	
Polyoxyethylene stearate	0	0	5.0 Polyoxyethylene stearate	
Polyoxyethylene propylene glycol lauryl alcohol ethoxylates	0	0	4.9 Polyoxyethylene propylene glycol lauryl alcohol ethoxylates	
Palmitic acid ethoxylate	0.5	0.1	5.2 lauryl alcohol ethoxylates	
Stearic acid ethoxylate	0.7	0.1	5.0 Palmitic acid ethoxylate	
Myristic acid ethoxylate	0.9	0.2	5.1 Stearic acid ethoxylate	
Oleic acid ethoxylate	0.5	0.1	5.0 Myristic acid ethoxylate	
nonyl phenol ethoxylate	0.3	0	4.9 Oleic acid ethoxylate	
Octyl phenol ethoxylate	0	0	5.1 nonyl phenol ethoxylate	
polyoxyethylene mono-N-dodecyl-ether	0	0	5.2 Octyl phenol ethoxylate	
polyoxyethylenesorbitan monooleate	0.8	0.1	5.1 polyoxyethylene mono-N-dodecyl-ether	
Lauryl polyethylene glycol ethoxylate	0	0	4.8 polyoxyethylenesorbitan monooleate	
cetyl alcohol	0	0	5.2 Lauryl polyethylene glycol ethoxylate	
cocamide diethanol amine	0	0	5.1 cetyl alcohol	
polyglyceryl-2-dipolyhydroxystearate	0	0	4.8 cocamide diethanol amine	
			5.3 polyglyceryl-2-dipolyhydroxystearate	

Appendix IV



STATE OF DELAWARE
**DEPARTMENT OF NATURAL RESOURCES AND
ENVIRONMENTAL CONTROL**

DIVISION OF WATER
RICHARDSON & ROBBINS BUILDING
89 KINGS HIGHWAY
DOVER, DELAWARE 19901

Commercial & Government Services

Telephone: (302) 739-9948

DATE

Attn: Michael R. Sause
Allen Harim Foods, LLC
P.O. Box 1380
29984 Pinnacle Way
Millsboro, DE 19666

Re: State of Delaware Non-Hazardous Liquid Waste Transporters Permit Number DE OH-679

Dear Mr. Sause:

Enclosed please find Non-Hazardous Liquid Waste Transporters Permit Number DE OH-679 which allows Allen Harim Foods, LLC to transport poultry process wastewater including reverse osmosis treatment system brine waste in the State of Delaware (specifically from Allen Harim's Hatchery No. 2 in Dagsboro and Allen Harim's Pinnacle Processing Facility in Millsboro) to be disposed of at the Allen Harim Harbeson Processing Facility's wastewater treatment system for treatment and disposal (as authorized by State Permit No. 597261-01).

A copy of this permit must be kept with all vehicles used for transport in the State of Delaware.

If you have any questions regarding the permit, please contact me at (302) 739-9946.

Sincerely,

Katharyn Potter

Katharyn Potter, MS
Environmental Engineer
Division of Water

Enclosure



Non-Hazardous Liquid Waste Transporters Permit

Issued by: Department of Natural Resources
and Environmental Control
Division of Water
89 Kings Highway
Dover, Delaware 19901
302-739-9946

Allen Harim Foods, LLC P.O. Box 1380 29984 Pinnacle Way Millsboro, DE 19666	Permit Number: DE OH-679 Issue Date: TBD Expiration Date: TBD
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Pursuant to the provisions of 7 Del. C., Chapter 60, and the State of Delaware Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems, permission is hereby granted to Allen Harim Foods, LLC to operate and maintain the vehicle(s) listed in the permit application and any supplemental submissions to the Department's Division of Water, operated by Allen Harim Foods, LLC for the purpose of collecting, transporting through Delaware and disposing of the non-hazardous liquid wastes listed in Condition 1 of this permit.

A copy of this permit must accompany each permitted vehicle and be presented upon request to any law enforcement officer or representative of the Department of Natural Resources and Environmental Control (Department).

This permit is issued subject to the following conditions:

1. Disposal site(s) for all waste(s) transported shall be the following:
 - a. Allen Harim Harbeson Processing Facility's wastewater treatment system
 - i) poultry process wastewater including reverse osmosis treatment systems brine waste
2. Permittee shall maintain a current copy of their permit/authorization documentation for each authorized facility listed in Condition 1 on file with the Department's Division of Water.
3. All non-hazardous liquid waste shall be transported only to authorized facilities.
4. None of the wastes shall be deposited into ditches, watercourses, lakes, ponds, tidewater sources, landed property or at any point other than the authorized facilities mentioned in Condition 1 above.
5. All waste material collected by permittee shall be transported and disposed of in accordance with the regulations of the Department and upon authorization by the authorized facilities listed in Condition 1 above. None of these wastes may be disposed of within the State of Delaware without specific permission of the Department.
6. The company name, address and permit number shall be displayed on both sides of each vehicle used for hauling purposes in letters not less than three inches high and of a color contrasting the color of the vehicle.

7. Every vehicle used for waste transporting purposes shall be equipped with a leak-proof tank or body and shall be maintained in a clean and sanitary condition. All pumps, hoses, and vehicle tanks or bodies shall be maintained so as to prevent leakage. Provisions shall be made to discharge all liquid waste through a leak-proof hose from the tank compartment of the vehicle.
8. All waste transporting truck pumping and discharge hoses shall be fitted with automatic shut-off valves at the tank compartment of the vehicle(s).
9. All vehicles used for transport shall be operated and maintained so as to be in compliance with all state and federal regulations and not present a hazard to human health or the environment through unsafe vehicle conditions. The permittee is responsible for the operation and maintenance of all vehicles operated under this permit.
10. All transporters shall at all times maintain commercial automobile liability insurance with a combined single limit of at least One Hundred Thousand Dollars (\$100,000). Permittee shall maintain a current copy of a Certificate of Insurance demonstrating compliance with this requirement on file with the Department's Division of Water.
11. All transporters shall maintain a current copy of their plan for the prevention, control, and cleanup of accidental discharges on file with the Department's Division of Water.
12. Any spill greater than 25 gallons shall be reported to the Department's Division of Water in writing within five days of the incident and shall include the date, time, location, and measures taken to contain and clean spill.
13. All transporters of sludge shall adhere to the following conditions:
 - a. Liquid sludge (less than 15% solids) shall be transported in watertight vessels such as tank trucks or other vessels which can provide equivalent protection against spills and leakage.
 - b. Sludge cake (15% - 35% solids) shall be transported in watertight boxes, such as dump trucks, properly sealed to prevent leaks, or cement type vehicles. When sludge cake is transported in dump trucks the following standards shall be met:
 - i) The trucks shall be equipped with splash guards firmly attached horizontally at the front and rear of the trailer;
 - ii) Each splash guard shall cover at least 25% of the trailer's open area; and
 - iii) A minimum two feet of freeboard shall be maintained between the sludge and the top of the trailer unless the top of the trailer is completely sealed.
 - c. Dried sludge (greater than 35% solids) may be transported in open boxes, such as dump trucks, which are properly sealed to prevent leakage. The trucks shall be covered with tarps or the equivalent.

14. All individuals who will be responsible for the removal of the solid and liquid contents of septic tanks, cesspools, seepage pits, holding tanks, portable toilets or any other individual residential on-site wastewater treatment and disposal system shall maintain a Class F Liquid Waste Hauler License (Class F License). While performing any Class F License related work, the Class F Licensee shall keep a copy of their Class F License identification card available for verification.
15. All transporters of septage shall pump on-site wastewater treatment and disposal systems according to the State of Delaware Regulations Governing the Design, Installation and Operation of On-Site Wastewater Treatment and Disposal Systems, amended January 11, 2014.
16. The only repairs a Class F Licensee is authorized to perform are the following: repair, add or replace septic tank and/or holding tank risers, baffles, lids, distribution box lids and effluent filters. No other repairs are authorized to be performed except by a Class E System Contractor who must first obtain a Repair Permit from the Department's Division of Water.
17. All transporters are prohibited from pumping out grease traps without first entering into a Grease Trap Maintenance Contract with the property owner. A copy of the contract document must be submitted to the Department's Division of Water within 15 days of signing the contract. Permittee may not enter into a Grease Trap Maintenance Contract unless the permittee has an authorized facility to dispose of grease trap waste identified in this permit. Co-mingling of septage and grease trap waste is prohibited, unless specifically approved, in writing, by the authorized facility(ies) that will be receiving the grease trap waste. If a "Grease Trap Maintenance Contract" is voided by either party, the permittee shall notify the Department's Division of Water in writing within 30 days.
18. Class F Licensees are prohibited from pumping out holding tanks without first entering into a Sewage Holding Tank Maintenance Contract with the property owner. A copy of the contract document must be submitted to the Department's Division of Water within 15 days of signing the contract. If a Sewage Holding Tank Maintenance Contract is voided by either party, the permittee shall notify the Department's Division of Water in writing within 30 days.
19. If the permittee is transporting Septage, Holding Tank Waste, or Municipal and/or Industrial Biosolids & Sludge from Package Treatment Plants, the permittee shall maintain a bond, or other security in a form approved by the Department's Division of Water, in the amount of Five Thousand Dollars (\$5,000) on file with the Department's Division of Water. The bond shall be payable to the State of Delaware and the obligation of the bond shall be conditioned upon the fulfillment of all requirements related to the permit.
20. No waste petroleum or non-domestic waste products may be collected or discharged by any waste transporter unless in accordance with a specific permit for these types of wastes. Transportation of liquid wastes containing any petroleum products will require a permit from the Division of Waste and Hazardous Substances (302-739-9400).
21. This permit does not relieve the transporter of complying with any other applicable Federal, State or local regulations.
22. In the event that regulations or guidelines governing the activity authorized herein are revised, this permit may be reopened and modified after notice and opportunity for a public hearing. At that time, additional limitations, requirements, and/or special conditions may be included in the permit.

23. This permit may be suspended or revoked for violation of any of these permit conditions, Department regulations, orders of the Secretary, provisions of the Environmental Protection Act of 1973 (7 Del. C., Chapter 60), or failure to pay applicable Department fees.
24. A complete renewal application must be submitted to the Department's Division of Water at least 45 days prior to the expiration of this permit to ensure renewal prior to expiration.
25. Pursuant to House Bill No. 360, June 25, 1991, Permittees are required to pay an annual permit fee of Four Hundred Fifty Dollars (\$450.00), payable to the State of Delaware. An annual fee invoice will be mailed to each permittee, to the address on file. This fee is due October 1st of each calendar year. Non-payment of the annual fee shall result in revocation of this permit.
26. All persons who will be responsible for the removal of the solid and liquid contents of septic tanks shall ensure that the required quarterly reports documenting the location, 911 mailing address and amount of septage removed (in total gallons) from each septic tank pumped out in Delaware are furnished to the Division of Water.
27. Waste materials which are transported to a landfill, recycling center, composting facility, or a Delaware Solid Waste Authority (DSWA) facility must obtain a Solid Waste transporter permit from the Division of Waste and Hazardous Substances. A Non-Hazardous Liquid Waste Transporter Permit does not relieve a transporter from having to obtain a Solid Waste transporter permit in those circumstances.

Signed,

Katharyn Potter

Katharyn Potter, MS
Environmental Engineer
Division of Water