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Alabama Department of Environmental Management
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Montgomery, Alabama 36130-1463
(334) 271-7700 ■ FAX (334) 271-7950

March 27, 2024

Mr. Andrew Carlson
Aviagen North America
920 Explorer Boulevard NW
Huntsville, AL 35806

RE: **UIC PERMIT NUMBER ALSI9961603**
Talladega Hatchery - Aviagen
245 Stockdale Road
Munford, Talladega County, Alabama

Dear Mr. Carlson:

A **Draft** copy of the permit is enclosed for your review.

If you have any comments on the draft permit, please submit them to this office **within the next thirty (30) days** so that any issues of concern might be resolved.

If you have any questions, please call me at (334) 271-7844.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jeff Aul".

Jeff Aul
UIC Program

JA

Enclosure: Draft UIC Permit ALSI9961603

Birmingham Branch
110 Vulcan Road
Birmingham, AL 35209-4702
(205) 942-6168
(205) 941-1603 (FAX)

Decatur Branch
2715 Sandlin Road, S.W.
Decatur, AL 35603-1333
(256) 353-1713
(256) 340-9359 (FAX)



Mobile Branch
2204 Perimeter Road
Mobile, AL 36615-1131
(251) 450-3400
(251) 479-2593 (FAX)

Mobile-Coastal
3664 Dauphin Street, Suite B
Mobile, AL 36608
(251) 304-1176
(251) 304-1189 (FAX)



UNDERGROUND INJECTION CONTROL PERMIT

PERMITTEE: Aviagen North America

FACILITY/LOCATION: Talladega Hatcher - Aviagen
245 Stockdale Road
Munford, Talladega County, Alabama
Latitude: N 33.472880/ Longitude W -86.025690

PERMIT NUMBER: ALSI9961603

INJECTION WELL CLASS: Class V

SOURCE OF POLLUTANTS: Injection of treated wash down water from a chicken hatchery operation

In accordance with and subject to the provisions of the Safe Drinking Water Act, as amended, 42 U.S.C. §§ 300f-300j (the "SDWA"), the Alabama Water Pollution Control Act, as amended, Code of Alabama 1975, §§ 22-22-1 to 22-22-14, (the "AWPCA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, §§ 22-22A-1 to 22-22A-15, and rules and regulations adopted thereunder, and subject further to the terms and conditions set forth in this permit, the Permittee is hereby authorized to construct and operate injection well(s) of the above-described class.

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

DRAFT

Alabama Department of Environmental Management

PART I Authorization to Operate

- A. The permittee is authorized to operate Class V Injection Well(s) at the facility described in the permit application and in the cover page of this permit in accordance with the provisions set forth in this permit. In the case of this permit, the drainage field disposal system is defined as the injection well(s).
- B. The permittee must have routine and daily control of the treatment and effluent disposal system for operation in accordance with the terms of this permit.
- C. Only the wastewater described in the permit application shall be injected.
- D. This permit and the authorization to inject shall remain in effect until the expiration date as stated on the cover page of this permit. If the permittee desires to continue injection past the expiration date of this permit, the permittee shall request a permit reissuance at least 180 days prior to expiration of this permit.

PART II Construction Requirements

- A. Injection Well Requirements
 - 1. The permittee shall construct and maintain a wastewater treatment system as described in the permit application.
 - 2. The permittee shall inject only wastewater that has been treated by passing through the wastewater treatment system as described in the permit application.
 - 3. Injected effluent shall not surface from the effluent disposal system.
 - 4. The permittee shall maintain a means of sampling the wastewater being injected after treatment and prior to injection.
 - 5. The loading rate of treated wastewater shall not exceed the design loading rate.

- B. Modifications

Approval by the ADEM shall be obtained prior to modification of any injection well or supporting surface. Modification shall mean any action that will change the configuration of the well beneath the surface, the methods of monitoring injection, or will result in injection of a fluid not specifically authorized by this permit.

PART III Operating and Monitoring Requirements

- A. Injection Fluid
 - 1. The permittee shall not inject any substance that is defined as hazardous or toxic by Federal or State laws or regulations or any substance not identified in the application for this permit. The proposed use of substances other than those identified in the permit application must be reviewed and approved by the ADEM prior to use.

2. The daily volume of injected wastewater shall not exceed the design flow of 15,000 gallons per day, in accordance with the plans and specifications submitted with the permit application.
 3. The rate of wastewater injection into the effluent disposal system shall not exceed the soil infiltration rate and the requirements of Part II.A.5 of this permit.
 4. The permittee shall monitor the fluid to be injected as specified in Appendix A of this permit.
 5. The permittee shall not exceed the limits established in Appendix A of this permit.
 6. The ADEM may change the sampling requirements if the sampling data indicates a need to do so.
- B. Groundwater Monitoring Requirements
1. Prior to injection, the permittee shall submit a groundwater monitoring plan. The plan shall include proposed locations and construction plans for monitoring wells sufficient to monitor groundwater quality immediately hydraulically down gradient of the disposal fields. The permittee shall make any modifications to the monitoring plan, as deemed necessary by the ADEM.
 2. Each monitoring well shall include the following.
 - a) The permittee shall screen each monitoring well in the uppermost saturated zone. The well screen shall be of sufficient length to account for seasonal fluctuations in the water table and effects of the subsurface effluent disposal system.
 - b) The annulus around each well casing above the well screen shall be sealed with bentonite to prevent the passage of surface water into the injection zone.
 - c) The surface installation shall include a concrete protective pad around the base of the well, a metal protective casing, and a locking cap.
 3. All surface water shall be routed away from the monitoring well's surface installation.
 4. The monitoring well installation shall be completed and monitoring wells shall be sampled for background water quality prior to the use of the drip fields.
 5. The permittee shall submit as built descriptions and geologic logs of monitoring wells within 60 days after drilling.
 6. The permittee shall monitor the groundwater as specified in Appendix B of this permit.
 7. The permittee shall not exceed the limits established in Appendix B of this permit.
 8. The ADEM may change the sampling requirements if the sampling data indicates a need to do so.

C. Test Procedures

Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 of the Federal Register and guidelines published pursuant to Section 304(h) of the Federal Water Pollution Control Act (FWPCA). If more than one method of analysis of a substance is approved for use, a method having a detection limit lower than the permit limit shall be used. If the detection limit of all methods is higher than the permit limit, the method having the lowest detection limit shall be used and a report of less than detection limit shall constitute compliance. However, should the Environmental Protection Agency (EPA) approve a method with a lower detection limit during the term of this permit the permittee shall use the newly approved method.

D. Operation

1. The injection well(s) operated under this permit shall function properly and wastewater shall not surface. Should the injection well(s) fail to function properly, the permittee shall take immediate corrective action, to include cessation of injection, as required by the ADEM.
2. The permittee shall adopt the following best management practices:
 - a) Inspect equipment, tanks, and chemical containers regularly for leaks;
 - b) Calibrate treatment and application equipment regularly;
 - c) Inspect drainage field regularly;
 - d) Comply with Federal, State, and local solids and liquid waste disposal regulations.

PART IV Records, Reports, & Submittals

A. Records

1. The permittee shall record the information listed below for all monitoring activities:
 - a) The date, exact place, and time of sampling or sampling measurement(s);
 - b) The name of individual(s) who perform the sampling or measurement(s);
 - c) The date(s) analyses were performed;
 - d) The name of the individual(s) who performed the analyses;
 - e) The analytical or technical methods used;
 - f) The results of each analysis performed; and
 - g) The completed chain-of-custody forms for all samples collected.

2. The permittee shall retain all records concerning the data used to complete the permit application, the operation of the wells, and the nature and composition of pollutants injected; to include records of the calibration of instruments, meters and gauges, quality control records, and recordings from continuous monitoring instrumentation; until at least three years after closure of the well(s).
 3. When requested by the ADEM, the permittee shall deliver copies of any of the records maintained in accordance with this permit.
- B. Reports
1. **Within 30 days upon the effective date of this permit the permittee must enroll and participate in the Department's Alabama Environmental and Permitting Compliance System (AEPACS) (<https://adem.alabama.gov/aepacs>).** Once the permittee is enrolled in the system, the permittee must utilize the system for the submittal of DMRs. If the system is down due to technical problems originating with the Department's system, the permittee is not relieved of the obligation to submit DMR data by the required submittal date via faxing, e-mailing, mailing, or hand-delivery of data such that they are received by the required reporting date.
 2. The permittee shall submit not later than 28 days after the reporting period, a monitoring report which shall include:
 - a) The date and exact place of sampling;
 - b) The results of each analysis performed.
 3. The permittee shall report to the ADEM any of the following:
 - a) Any planned action which will change the use of the injection well, will result in injection of a fluid different from that authorized by this permit, will change the method of operations of any injection well, or will change the method of the monitoring of well operations or injection fluids;
 - b) Any planned transfer of ownership of all or part of the permitted facility.
 - c) Any relevant facts of which the permittee becomes aware which should have been submitted in a permit application and any corrections to data previously submitted in a permit application.
 4. Studies, engineering reports, plans and specifications, plugging and abandonment plans, logging reports, and other technical documents submitted to comply with this permit shall be prepared by or under the supervision of qualified persons defined by the underground injection control (UIC) regulations of the ADEM.

PART V Plugging and Abandonment

The permittee shall perform any abandonment and closure actions that may be required by the ADEM to remove a threat to groundwater quality or to the health of persons which is caused by the injection activity.

PART VI Permit Modification, Revocation, Suspension, and Termination

- A. The ADEM may impose emergency additional conditions to this permit when necessary to protect waters of the state from pollution. These conditions may include suspension of the permit to inject. Any such condition shall remain in effect until the permit is modified, revoked, suspended or terminated in accordance with the UIC regulations of the ADEM.
- B. Non-emergency permit modification, revocation, suspension, and termination actions shall be accomplished in accordance with the ADEM Administrative Rule 335-6-8.

PART VII General Provisions

- A. The permittee shall comply with all provisions of the UIC regulations of the ADEM and shall comply with all provisions of this permit and shall reduce or halt injection if needed to maintain compliance with the permit and regulations.
- B. The permittee shall comply with all applicable Federal and State hazardous waste management regulations.
- C. The permittee shall allow members of the ADEM staff to:
 - 1. Access property and records of the permittee for purposes of inspection.
 - 2. Collect samples of the injected fluids, process and wastewater streams associated with the permitted injection wells.
 - 3. Collect samples from monitoring wells.
 - 4. Obtain copies of records upon request.
- D. The permittee shall immediately take all reasonable steps to minimize or correct any adverse environmental impact resulting from the operation of the permitted injection wells.
- E. This permit does not convey any property rights of any sort, or any exclusive privilege.
- F. The filing of a request by the permittee for a permit modification, revocation, and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.
- G. Any noncompliance with this permit constitutes a violation of the Alabama Water Pollution Control Act (AWPCA) and/or the UIC regulations and is grounds for enforcement action such as permit termination, revocation, modification; or denial of a permit renewal application.
- H. All provisions of the ADEM Admin. Code Rule 335-6-8-.12 are incorporated as terms and conditions of this permit by reference.

- I. Injection into waters of the state, which in this case is groundwater, in accordance with this permit shall not result in the exceedance of any primary or secondary Maximum Contaminant Level (MCL) in groundwater as established by the Environmental Protection Agency. Injection into groundwater, in accordance with this permit shall not result in a violation of a surface water quality standard.

- J. The permittee authorized to discharge under this permit, who wishes to continue to discharge upon the expiration of this permit, shall apply for reissuance, using the Department's Alabama Environmental Permitting and Compliance System (AEPACS), unless the Permittee submits in writing valid justification as to why the electronic submittal process cannot be utilized and the Department approves in writing the utilization of hard copy submittals. The AEPACS can be accessed at <http://adem.alabama.gov/AEPACS>. Such application shall be submitted at least 180 days prior to the expiration date of this permit. Permit requests for initial issuance and modifications of the existing permit should all be submitted through the AEPACS system.

APPENDIX A

The treated wastewater discharge shall be limited and monitored by the permittee as specified below:

<u>EFFLUENT CHARACTERISTICS</u>	<u>UNITS</u>	<u>DISCHARGE LIMITS</u>	<u>MONITORING REQUIREMENTS</u>	
			<u>FREQUENCY</u>	<u>SAMPLE TYPE</u>
Flow	GPD	15,000	Daily	Continuous
Formaldehyde	mg/l	Report	Monthly	Grab
Ammonia as NH ₃ -N	mg/l	Report	Monthly	Grab

APPENDIX B

Groundwater monitoring wells MW-1 and MW-2 shall be limited and monitored by the permittee as specified below:

<u>GROUNDWATER CHARACTERISTICS</u>	<u>UNITS</u>	<u>DISCHARGE LIMITS</u>	<u>MONITORING REQUIREMENTS</u> <u>FREQUENCY</u>	<u>SAMPLE TYPE</u>
Formaldehyde	mg/l	1	Quarterly	Grab
Total Nitrate	mg/l	10	Quarterly	Grab
pH	Standard	6.0-9.0	Quarterly	Grab

ADEM Permit Rationale

Date: March 27, 2024

Prepared by: Jeff Aul

Responsible Official: Mr. Andrew Carlson

Permittee Name: Aviagen North America
920 Explorer Boulevard NW
Huntsville, AL 35806

Facility Name: Talladega Hatcher - Aviagen

Location: 245 Stockdale Road
Munford, Talladega County, Alabama
Latitude: N 33.472880/ Longitude W -86.025690

UIC Permit Number: ALSI9961603

Draft Permit is: Modification

Injection Description: Injection of treated wash down water from a chicken hatchery operation

Discussion: Standard permit drafted

1. No hazardous injection
2. Sampling point required
3. Monitoring well must be installed and sampled
4. Discharge must be sampled in accordance with Appendix A and B
5. Results must be submitted in a timely manner
6. BMPs included in permit
7. The effluent disposal area must be maintained to prevent the occurrence of standing water resulting from precipitation or injection of treated wastewater
8. The permittee shall maintain a thriving vegetated cover throughout the year and must oversee the disposal area when necessary to maintain a cover crop
9. All subsurface effluent disposal system components and equipment must be installed, monitored, and maintained in accordance with manufactures' directions
10. The loading rate of treated wastewater shall not exceed the design loading rate
11. AEPACS DMR Requirement included in permit
12. AEPACS required to be utilized for permit reissuances/modifications/transfers