

**PART I Authorization to Operate**

- A. The permittee is authorized to operate a Class V Injection Well, 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.
- 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 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.     ADEM may change the sampling requirements if the sampling data indicates a need to do so.

#### **B.     Monitoring Well**

1.     Prior to injection, the permittee shall submit a groundwater monitoring plan. The plan shall include proposed location(s) and plans for monitoring well(s) sufficient to monitor groundwater quality immediately hydraulically downgradient of the disposal field. 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 well shall be screened in the uppermost saturated zone. The well screen shall be of sufficient length to account for seasonal fluctuations in the water table and affects of the injection well;
  - b)     The annulus around the well casing above the well screen shall be sealed with bentonite to prevent the passage of surface water or injection well water;
  - c)     The concrete protective pad around the base of the well, a metal protective casing, and a locking cap shall be maintained.
3.     All surface water shall be routed away from the monitoring well's surface installation.
4.     The permittee shall monitor the groundwater as specified in Appendix B of this permit.
5.     The permittee shall not exceed the limits established in Appendix B of this permit.

6. 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 operated under this permit shall function properly and wastewater shall not surface or saturate the uppermost soil layer. Should the injection well fail to function properly, the permittee shall take 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 the closure of well(s).
3. When requested by the ADEM, the permittee shall deliver to the ADEM copies of any of the records maintained in accordance with this permit.

B. Reports

1. **If the Permittee is not already participating in the Department's web-based electronic environmental (E2) DMR reporting system, the Permittee must enroll and participate within 180 days of the effective date of this permit.** Once the permittee is enrolled in the E2 DMR system, the permittee must utilize the system for the submittal of DMRs. The Permittee Participation Package may be downloaded online at <https://e2.adem.alabama.gov/npdes>. If the E2 DMR 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 injected 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. Other Submittals  

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 Rule 6-8-.13 of the Underground Injection Control (UIC) Regulations of 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 and shall remain in effect until the permit is modified, revoked, suspended or terminated in accordance the UIC Regulations of ADEM.
- B. Non-emergency permit modification, revocation, suspension, and termination actions shall be accomplished in accordance with ADEM Administrative Code Rule 335-6-8.

**PART VII General Provisions**

- A. The permittee shall comply with all provisions of the UIC Regulations of 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:
  - a) Access property and records of the permittee for purposes of inspection;
  - b) Collect samples of the injected fluids, process and wastewater streams associated with the permitted injection wells;
  - c) Collect samples from any monitoring wells;
  - d) 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 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. Injection to waters of the state, which in this case is groundwater, in accordance with this permit shall not result in the exceedance of a Maximum Contaminant Level (MCL) in groundwater as established by the Environmental Protection Agency. Injection to

groundwater, in accordance with this permit shall not result in a violation of a surface water quality standard.

- I. All provisions of ADEM Code Rule 335-6-8.12 are incorporated as terms and conditions of this permit by reference.

### APPENDIX A

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

<u>EFFLUENT CHARACTERISTIC</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 NH3-N	mg/l	Report	Monthly	Grab

### APPENDIX B

The monitoring well shall be limited and monitored by the permittee as specified below:

<u>GROUNDWATER CHARACTERISTICS</u>	<u>UNITS</u>	<u>GROUNDWATER 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: May 21, 2021

Prepared by: Jessica Spence

Permittee Name: Aviagen North America  
c/o Tommy Cooper  
245 Stockdale Road  
Munford, AL 36268

Facility Name: Talladega Hatchery- Aviagen  
245 Stockdale Road  
South of State Road 21  
Munford, Talladega County, Alabama

Location: Town18, Range 6, Section 9  
Talladega County, Alabama

UIC Permit Number ALSI9961603

Draft Permit is: Reissuance due to expiration

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. Discharge must be monitored
4. Monitoring well must be sampled
5. Results must be submitted in a timely manner
6. A monitoring well must be constructed and sampled prior to injection
7. BMP's included in permit
8. E2 DMR requirement in permit