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March 9, 2026

Mr. Billy Hudson
City of Muscle Shoals
P.O. Box 2624
Muscle Shoals, AL 35662

RE: **UIC PERMIT NUMBER ALSI9917008**
Citywide Stormwater Retention Basins
Citywide Muscle Shoals, Colbert County, Alabama

Dear Mr. Hudson:

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 ALSI9917008



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

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

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1615 South Broad Street
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UNDERGROUND INJECTION CONTROL PERMIT

PERMITTEE: City of Muscle Shoals

FACILITY/LOCATION: City of Muscle Shoals – Citywide Stormwater Retention Basins
Citywide
Muscle Shoals, Colbert County, Alabama
Latitude: N 34.730030/ Longitude W -87.618410

PERMIT NUMBER: ALSI9917008

INJECTION WELL CLASS: Class V

SOURCE OF POLLUTANTS: Injection of stormwater runoff into ten improved sinkholes used to control stormwater discharges throughout the city

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
Water Division Chief

PART I Authorization to Operate

- A. The permittee is authorized to operate (10) 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.
- B. 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 Injection Well Requirements

- A. The authorized injection wells are defined as the ten improved sinkholes used as retention basins to control stormwater discharges through the city and which are identified in the permit application dated September 2025. The injection wells are: Nathan Estates Pond, Union Square Pond, Airport Pond, Shoals City Pond, Broadway Pond, Beuna Vista Pond, Brown Street Pond, 6th Street Pond, Shoal Research Air Park Pond, and Cornelius Landing Subdivision Pond.
- B. Only stormwater runoff described in the original permit application shall be injected. Injection of sewage, industrial waste, or other waste(s) is prohibited.

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.
 - 2. The permittee shall monitor the stormwater prior to entering the injection wells as specified in Appendix A of this permit.
 - 3. ADEM may change the sampling requirements if the sampling data indicates a need to do so.
- B. Groundwater Monitoring Requirements

Should any discharge result in a threat of groundwater contamination, ADEM may require groundwater monitoring to properly assess the extent of contamination. ADEM may require that the permittee undertake measures to abate any such discharge or contamination.
- C. 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 permittee shall adopt the following best management practices:
 - a) Properly operate and maintain in good working order all treatment or control facilities or systems (and related appurtenances) installed or used by the permittee to achieve compliance with the terms and conditions of this permits. Proper operation and maintenance include effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires operation of back-up or auxiliary facilities or similar systems only when necessary to achieve compliance with the terms and conditions of this permit.
 - b) Comply with Federal, State, and local solid and liquid waste disposal regulations.
 - c) Solids or any other pollutant or other waste removed from stormwater retention basins shall be managed in a manner that complies with all applicable ADEM rules and regulations.
2. Monitoring Equipment and Instrumentation

All equipment and instrumentation used to determine compliance with the requirements of this permit shall be installed, maintained, and calibrated in accordance with the manufacturer's instructions or in the absence of manufacturer's instructions, in accordance with accepted practices. At a minimum, flow measurement devices shall be calibrated at least once every 12 months.

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 for the pervious three years of operation.
 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. The reporting period for well monitoring performed under Appendix A shall be annually. Upon the effective date of this permit, the permittee shall submit reports not later than 28 days after each reporting period. The monitoring reports shall include:
 - a) The date, exact place, and time of sampling or sampling measurement(s);
 - b) The results of each analysis and measurement performed.
 2. The permittee shall report to the ADEM any of the following:
 - a) Any planned action which will change the use of the injection wells, 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 or responsibility of operation 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.
 - d) The permittee shall report to the Department, the county health department, and any other affected entity such as public water systems, immediately of becoming aware of any spill or discharge of any chemical, waste, or harmful substance, or other unpermitted discharge to the stormwater injection well system. A written report shall be submitted no later than five (5) days after becoming aware of the occurrence of such discharge to and shall include the following information:
 - i) A description of the discharge:
 - ii) The period over which the discharge occurred, including the exact dates and times or, if not corrected, the anticipated time the discharge is expect to continue; and
 - iii) A description of the steps taken and/or being taken to reduce or eliminate the discharge and to prevent its recurrence.

3. 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 the ADEM.
4. 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.

PART V Spill Prevention, Control, and Management

The Permittee shall prepare, implement, and maintain a Spill Prevention, Control, and Countermeasures (SPCC) Plan in accordance with 40 CFR Part 112 for potential spills which could enter the injection well system. The Permittee shall implement appropriate structural and/or non-structural spill prevention, control, and/or management to address any spills of pollutants potentially entering the injection well system. The Permittee shall maintain onsite or have readily available sufficient oil & grease absorbing material and flotation booms to contain and clean-up fuel or chemical spills and leaks. Soil contaminated by chemical spills, oil spills, etc. must be immediately cleaned up, remediated, or be removed and disposed of in a Department approved manner. The Permittee shall promptly take all reasonable steps to mitigate and minimize or prevent any adverse impact on human health or the environment resulting from noncompliance with any discharge limitation of this permit, including such accelerated or additional monitoring of the stormwater discharge and/or the receiving injection well as necessary to determine the nature and impact of the noncomplying discharge.

PART VI 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.

PART VII 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 with Rules 6-8-.12(a)3-5 and 6-8-.12(f) of 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 Code Rule 335-6-8.

PART VIII 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 any 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 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 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

Stormwater entering each of the ten improved sinkhole stormwater retention basins shall be monitored by the permittee as specified below:

<u>STORMWATER INFLUENT</u>	<u>UNITS</u>	<u>STORMWATER LIMITS</u>	<u>MONITORING REQUIREMENTS</u>	
			<u>FREQUENCY</u>	<u>SAMPLE TYPE</u>
Total Lead	ug/l	15	Annually	Grab
Total Chromium	ug/l	100	Annually	Grab
Total Aluminum	ug/l	Report	Annually	Grab
Benzene	ug/l	5	Annually	Grab
Carbon Tetrachloride	ug/l	5	Annually	Grab
1, 2 -Dichloroethane	ug/l	5	Annually	Grab
Trichloroethylene	ug/l	5	Annually	Grab
1, 4 -Dichlorobenzene	ug/l	75	Annually	Grab
1, 1 -Dichloroethylene	ug/l	7	Annually	Grab
1, 1, 1 -Trichloroethane	ug/l	200	Annually	Grab
Vinyl chloride	ug/l	2	Annually	Grab
cis- 1, 2 -Dichloroethylene	ug/l	70	Annually	Grab
1, 2 -Dichloropropane	ug/l	5	Annually	Grab
Ethylbenzene	ug/l	700	Annually	Grab
Chlorobenzene	ug/l	100	Annually	Grab
1, 2 -Dichlorobenzene	ug/l	600	Annually	Grab
Styrene	ug/l	100	Annually	Grab
Tetrachloroethylene	ug/l	5	Annually	Grab
Toluene	ug/l	1,000	Annually	Grab
1, 4 -Dichloroethylene	ug/l	100	Annually	Grab
Xylene (Total)	ug/l	10,000	Annually	Grab
Dichloromethane	ug/l	5	Annually	Grab
1, 2, 4 -Trichlorobenzene	ug/l	70	Annually	Grab
1, 1, 2 -Trichloroethane	ug/l	5	Annually	Grab
Total Suspended Solids (TSS)	ug/l	Report	Annually	Grab

ADEM Permit Rationale

Date: March 9, 2026

Prepared By: Jeff Aul

Responsible Official: Mr. Billy Hudson

Permittee Name: City of Muscle Shoals
P.O. Box 2624
Muscle Shoals, AL 35662

Facility/Site Name: Citywide Stormwater Retention Basins

Location: Citywide
Muscle Shoals, Colbert County, AL
Latitude: 34.699552/Longitude: -87.581822

UIC Permit Number: ALSI9917008

Draft permit is: Modification

Injection Description: Injection of stormwater runoff into ten improved sinkholes used to control stormwater Discharges throughout the city

Discussion: Standard permit drafted.

1. No hazardous injection
2. Sampling point required
3. Discharge must be sampled quarterly
4. Results must be submitted in a timely manner
5. Monitoring wells will be sampled quarterly
6. Best Management Practices included in permit
7. AEPACS Requirement included in permit
8. AEPACS required to be utilized for reporting
9. AEPACS required to be utilized for permit reissuances/modifications/transfers
10. Modification for two additional improved sinkholes