The University of Alabama
Tutwiler Triangular Lot Stormwater Management Project

Permit Terms and Conditions **ALSI9963040**

PART I Authorization to Operate

A. The permittee is authorized to operate the Class V Injection Well 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 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 Injection Well Requirements

A. The authorized injection well is defined as the subsurface stormwater basin identified in the permit application dated June 4, 2019. The injection well shall be located beneath the Tutwiler Triangular Lot at the intersection of 10th Avenue and Paul Bryant Drive.

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 well as specified in Appendix A of this permit.

B. Groundwater Monitoring Requirements

The permittee shall monitor and limit the groundwater as specified in Appendix B of this permit and in accordance with the Groundwater Monitoring Plan included in the permit application.

C. ADEM may change the sampling requirements and notify the permittee if the sampling data indicates a need to do so.

D. 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.

E. Operation

The permittee shall adopt the following best management practices:

1. 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 permit. Proper operation and maintenance includes 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.

2. Comply with Federal, State, and local solid and liquid waste disposal regulations.

3. 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.

F. 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.

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 previous three years of operation.

3. When requested by ADEM, the permittee shall deliver copies of any of the records maintained in accordance with this permit.

B. Reports

1. The reporting period for all monitoring performed under this permit shall be quarterly. 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 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 the 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 facilities.

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 exact dates and times or, if not corrected, the anticipated time the discharge is expected to continue; and

(iii) A description of the steps 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 the Underground Injection Control (UIC) Regulations of ADEM.

4. **Within 180 days upon the effective date of this permit, the permittee must enroll and participate in the Department's web-based electronic environmental (E2) DMR reporting system.** 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.

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 ADEM to remove a threat to groundwater quality or to the health of persons.

PART VII Permit Modification, Revocation, Suspension, and Termination

A. 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 ADEM.

B. Non-emergency permit modification, revocation, suspension, and termination actions shall be accomplished in accordance with ADEM Administrative Rule 335-6-8.

PART VIII 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:

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 the injection wells or 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 ADEM Admin. Code Rule 335-6-8-.12 are incorporated as terms and conditions of this permit by reference.

I. 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.

APPENDIX A

Stormwater entering the subsurface stormwater basin shall be monitored by the permittee as specified below:

STORMWATER INFLUENT CHARACTERISTICS	UNITS	STORMWATER LIMITS	MONITORING REQUIREMENTS FREQUENCY	SAMPLE TYPE
Total Lead	ug/l	Report	Quarterly	Grab
Total Chromium	ug/l	Report	Quarterly	Grab
Total Aluminum	ug/l	Report	Quarterly	Grab
Benzene	ug/l	Report	Quarterly	Grab
Carbon Tetrachloride	ug/l	Report	Quarterly	Grab
1, 2 -Dichloroethane	ug/l	Report	Quarterly	Grab
Trichloroethylene	ug/l	Report	Quarterly	Grab
1, 4- Dichlorobenzene	ug/l	Report	Quarterly	Grab
1, 1 -Dichloroethylene	ug/l	Report	Quarterly	Grab
1, 1, 1- Trichloroethane	ug/l	Report	Quarterly	Grab
Vinyl chloride	ug/l	Report	Quarterly	Grab
cis-1,2-Dichlorethylene	ug/l	Report	Quarterly	Grab
1, 2-Dichloropropane	ug/l	Report	Quarterly	Grab
Ethylbezene	ug/l	Report	Quarterly	Grab
Chlorobenzene	ug/l	Report	Quarterly	Grab
1,2 -Dichlorobenzene	ug/l	Report	Quarterly	Grab
Styrene	ug/l	Report	Quarterly	Grab
Tetrachloroethylene	ug/l	Report	Quarterly	Grab
Toluene	ug/l	Report	Quarterly	Grab
1, 4-Dichloroethylene	ug/l	Report	Quarterly	Grab
Xylene (Total)	ug/l	Report	Quarterly	Grab
Dichloromethane	ug/l	Report	Quarterly	Grab
1, 2, 4-Trichlorobenzene	ug/l	Report	Quarterly	Grab
1, 1, 2-Trichloroethane	ug/l	Report	Quarterly	Grab
Benzo(a)pyrene	ug/l	Report	Quarterly	Grab
Benzo(b)fluoranthene	ug/l	Report	Quarterly	Grab

APPENDIX B

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

GROUNDWATER CHARACTERISTICS	UNITS	GROUNDWATER LIMITS	MONITORING REQUIREMENTS FREQUENCY	SAMPLE TYPE
Total Lead	ug/l	15	Quarterly	Grab
Total Chromium	ug/l	100	Quarterly	Grab
Total Aluminum	ug/l	Report	Quarterly	Grab
Benzene	ug/l	5	Quarterly	Grab
Carbon Tetrachloride	ug/l	5	Quarterly	Grab
1, 2 -Dichloroethane	ug/l	5	Quarterly	Grab
Trichloroethylene	ug/l	5	Quarterly	Grab
1, 4- Dichlorobenzene	ug/l	75	Quarterly	Grab
1, 1 -Dichloroethylene	ug/l	7	Quarterly	Grab
1, 1, 1- Trichloroethane	ug/l	200	Quarterly	Grab
Vinyl chloride	ug/l	2	Quarterly	Grab
cis-1,2-Dichlorethylene	ug/l	70	Quarterly	Grab
1, 2-Dichloropropane	ug/l	5	Quarterly	Grab
Ethylbezene	ug/l	700	Quarterly	Grab
Chlorobenzene	ug/l	100	Quarterly	Grab
1,2 -Dichlorobenzene	ug/l	600	Quarterly	Grab
Styrene	ug/l	100	Quarterly	Grab
Tetrachloroethylene	ug/l	5	Quarterly	Grab
Toluene	ug/l	1,000	Quarterly	Grab
1, 4-Dichloroethylene	ug/l	100	Quarterly	Grab
Xylene (Total)	ug/l	10,000	Quarterly	Grab
Dichloromethane	ug/l	5	Quarterly	Grab
1, 2, 4-Trichlorobenzene	ug/l	70	Quarterly	Grab
1, 1, 2-Trichloroethane	ug/l	5	Quarterly	Grab
Benzo(a)pyrene	ug/l	0.2	Quarterly	Grab
Benzo(b)fluoranthene	ug/l	Report	Quarterly	Grab
Chloroform	ug/l	80	Quarterly	Grab
trans-1,4-Dichloro-2-butene	ug/l	Report	Quarterly	Grab

ADEM Permit Rationale

Date: July 22, 2019

Prepared by: Joe Kelly

Permit Applicant: University Of Alabama
Attention Matthew Fajack
PO Box 870142
Tuscaloosa, AL 35487

Facility Name: University Of Alabama, Tutwiler Triangular Lot Stormwater Management Project

Location: Intersection of 10th Avenue and Paul Bryant Drive, Tuscaloosa, Alabama

UIC Permit Number ALSI9963040

Draft Permit is: Initial Registration / New Use

Injection Description: Injection of stormwater runoff through a subsurface stormwater basin

Notes: Stormwater only, stormwater effluent shall be monitored quarterly, goundwater monitoring wells shall be monitored quarterly