THE UNIVERSITY OF ALABAMA® | Division of Finance and Operations
Environmental Health and Safety

Stormwater Annual Report

Reporting Period

April 1, 2023 – March 31, 2024

DATE: May 28, 2024

PREPARED BY: Jay Thomas, Environmental Hazard Technician III

The University of Alabama Stormwater Management Plan provides steps taken to reduce pollutants. Best Management Practices (BMPs) are used for each control measure, including Public Education and Public Involvement on Storm Water Impacts, an Illicit Discharge Detection and Elimination (IDDE) Program, Construction Site Run Off Control, Post-Construction Storm Water Management in New Development and Redevelopment, and Pollution Prevention/Good Housekeeping for Municipal Operations. When the University recognizes an inefficient or ineffective BMP, the BMP is revised to ensure effectiveness. Currently, the University of Alabama Municipal Separate Storm Sewer System (MS4) does not impact any impaired waters with stormwater runoff as noted by review of Alabama's 2023 303(d) listing/Total Maximum Daily Loads (TMDLs). Additionally, as needed, the University interacts with the City of Tuscaloosa, which is an adjacent MS4, as well as Alabama Department of Transportation (ALDOT) and Alabama Southern Railroad, to address storm water concerns.

I. Public Education and Public Involvement

Environmental Health & Safety (EHS) developed a public education and public involvement program designed to inform and educate the campus and the community at large. The pollution impact of storm water discharges on local bodies of water can be significant if the public is not aware of the importance of protecting nature's most valuable resource.

EHS solicits public involvement in a number of ways including involvement in the Stormwater Management Program through the use of the Stormwater Committee. The Stormwater Committee is one method used to seek input from the public on the development, revision, and implementation of the Stormwater Management Plan and Program. Additionally, public involvement is encouraged further within the storm sewer marking program and the campus cleanup event.

1) Multi-Media Platforms – Public Education

   a. Public service advertisements are utilized. Notices and educational information are printed in regular intervals and included in the Crimson White newspaper, transit buses, and digital media platforms.

   b. EHS maintains a website which provides information, educational opportunities, and the written Storm Water Management Program at http://ehs.ua.edu/operations/environmental-programs/stormwater-management-program/

   c. Twitter (X) (https://twitter.com/EHS_UA) is a platform for social media posts used to provide information to the community.

   d. Instagram will be utilized to notify and provide information to the public (2024)

2) Training: Impacts and Prevention of Illegal Dumping, Water Quality Importance, Construction Regulations – Public Education

   a. Educating the campus community on the impact of illegal dumping and littering is an aspect of educational and public service materials.

   b. Training modules and information related to construction on campus are included on the EHS website. *Stormwater Pollution Prevention* is one course available online through Skillsoft Training Academy at http://ehs.ua.edu/training/list-of-training-courses/ for employees of the

University. Additionally, instructor-led training regarding stormwater is scheduled and offered routinely.

c. Campus community education regarding the importance of storm water runoff is a priority of the public service and information provided by EHS.

3) Education of University and Construction Project Managers – Public Education

a. All construction project supervisors are required to complete training modules developed to detail elements of sediment, erosion control and other construction aspects related to stormwater management. This program is managed by Richard Powell P.E., Staff Civil Engineer with Construction Administration.

4) Education of the Public through Signage – Public Education

a. Informing the public on the impact of illegal dumping and littering is an aspect of public education.

b. "No Littering - No Dumping" signage has been installed at key locations around campus. The signage features a QR code for access to the EHS Stormwater Management website.

5) Stormwater Management Committee – Public Involvement
EHS is responsible for the oversight of this committee with the chair of the committee being Jay Thomas. The current members include:

Jay Thomas – Environmental Hazard Technician III
Joey Howell – Environmental Hazard Technician III
Tim Leopard – Senior Associate Vice President for Campus Development
Paul Wuebold – Associate Vice President of Facilities and Grounds
Tony Johnson – Director, Fleet Management
Chris D'Esposito – Executive Director, Transportation Services
Isaac Falls – Associate Director of Automotive Services
Collin Sewell – Director, Building Maintenance
Mark Bentley – Manager, Plumbing
Randy Mathis – Manager, HVAC
Kim Byram – Director of Grounds
Julie Salter – Assistant Director of Student Media
Joe Cobb – Director of Construction Operations
Richard Powell – Civil Engineer III, Construction Administration
Trey Johnson – Field Coordinator, Campus Development
Justin McPherson – Land Surveyor, Campus Support Services
Lin Hendrix – Recreation Field Supervisor
Brandon Sevedge – Associate Assistant Director of Athletics
Additional Representation for EHS (Executive Director, Assistant Director & Manager, Environmental Health and Safety)

6) Storm Sewer Marking – Public Involvement
Within the 2023 reporting period The University of Alabama standardized the storm sewer markers on campus with a purchase of 2000 markers that have been marked with "No Dumping Drains to River" and a unique identifier. At present, 1467 markers have been installed so far and installation will continue as the need arises.

7) Campus Clean-up Event – Public Involvement
On March 23, 2024, EHS organized and held a trash/recyclables clean-up event near Manderson Landing along the Black Warrior River. The public was invited through advertisements posted to multi-media platforms. There were 22 attendees. This event is planned to occur as an annual event to aid in the reduction of litter and floatable debris from entering the MS4 and the Black Warrior River.

8) Utilization of BMPs

A chart is maintained summarizing goal attainment for each of the BMPs referenced below. Documentation to support such attainment will be maintained by EHS.

BMPs

- Printed Materials – Education on Importance of Stormwater: Hard copy media material has been prepared for distribution throughout the University of Alabama campus. EHS has established an annual distribution goal of over 50 brochures, pamphlets, fliers, posters, etc. Actual number of disseminated documents will continue to be recorded in the chart labeled as *Public Education and Public Involvement*.

- Stormwater - Social Media (Twitter-@EHS_UA): EHS continues to post information pertaining to the University of Alabama Stormwater Management Program to social media using the twitter platform. EHS tracks the followers of this account. The *Public Education and Public Involvement* chart contains the number of followers of the EHS Twitter account.

- Public Service Advertisements: EHS continues to utilize The University of Alabama Crimson White newspaper, campus transit buses, and digital media to inform the campus of the Stormwater Program. This is notated as Yes/No in the chart, as well as the schedule of the publication.

- Impacts of Illegal Dumping and Littering - Training: EHS continues to document training efforts in the chart, as the number of individuals trained are noted as a number indicating those having received training in the chart labeled *Public Education and Public Involvement.*

- Education Concerning Construction Activities: EHS, in conjunction with Construction Administration, documents the number of individuals that have received training related to construction activities and stormwater in the *Public Education and Public Involvement* chart.

- Education of University and Contractor Personnel: EHS, in conjunction with Construction Administration, will continue to document the number of contractors that have received stormwater-related training in the chart labeled *Public Education and Public Involvement.*

- Education of the Public through Signage: EHS, in conjunction with The University of Alabama's Transportation Services, has installed "No Littering – No Dumping" signage on campus in key locations. Documentation of the number of signs installed and maintained is provided in the chart labeled as *Public Education and Public Involvement*.

- Stormwater Management Committee: EHS holds at a minimum one Committee meeting annually. This is notated in the chart below labeled as *Public Education and Public Involvement* as Yes/No along with the date of the meeting.

- Storm Sewer Marking Campaign: EHS continues to collaborate with Construction Administration on the number of disks and/or storm sewer covers that have been installed, and document the percentage installed within the chart labeled *Public Education and Public Involvement.* Beginning in 2023, Construction Administration at The University of Alabama began installation of revised, more durable, storm sewer markers on all new and existing storm sewer covers.

- Campus Clean-up Event: EHS will continue to organize and host this event annually. This will be noted in the charted below as a Yes/No along with the date of the event labeled in the chart *Public Education and Public Involvement.*

	FY-23	**FY-24**	**FY-25**	**FY-26**	**FY-27**
Printed Materials – Education on Importance of Stormwater *(Public Education)*	50				
Stormwater - Social Media *(Public Education)*	668 Followers				
Public Service Advertisements *(Public Education)*	Yes Quarterly 2023				
Illegal Dumping and Littering Training *(Public Education)*	347				
Education Concerning Construction Activities *(Public Education)*	347				
Education of University and Contractor Personnel *(Public Education)*	19				
Education of the Public through Signage *(Public Education)*	Yes 7				
Stormwater Management Committee *(Public Involvement)*	Yes 12-01-2023				
Storm Sewer Marking Campaign *(Public Involvement)*	73% 1467/2000				
Campus Clean-Up Event *(Public Involvement)*	Yes 03-23-2024				

Public Education and Public Involvement

II. Illicit Discharge Detection and Elimination (IDDE) Program
This measure focuses on BMPs concerned with the detection and elimination of illicit discharges.

1) Stormwater Sewer System Map
Revisions were made to the stormwater sewer system map in 2018. Modifications and additions to this map are made as they are required or needed.

2) Stormwater Management Policy

EHS has developed a University-wide Stormwater Management Policy. The policy specifically outlines escalating enforcement procedures and actions related to the immediate cessation of improper disposal practices. A copy of the Stormwater Management Policy is included for review in Appendix A.

3) Dry Weather Inspections
All dry weather screenings are scheduled to be completed annually. For 2023, 100% dry weather screenings are complete.

4) Employee Training
The number of UA personnel trained as part of Illicit Discharge Detection and Elimination BMP was 347. Personnel from EHS, Construction Administration, and UA Facilities & Grounds were included. Multiple instructor-led training classes occur once a quarter (January, April, July, and October) on the second Wednesday of the month. Online training occurs as needed throughout the year.

5) Illegal Discharge/Dumping Detection and Reporting
Dry weather screenings have been developed to identify potential illegal discharges. Training has been provided regarding how to identify and report illicit discharges.

6) Utilization of BMPs
A chart is maintained documenting the annual review and update of the Storm Sewer Map, Stormwater Management Policy, Dry Weather Inspections, Employee Training, and to provide indication of Illicit Discharge/Dumping Detection Reporting.

BMPs

- Storm Sewer Map: EHS collaborates with Construction Administration to determine if the Storm Sewer Map has been updated and make any changes deemed appropriate. This is notated as Yes/No on the chart labeled *Illicit Discharge Detection andElimination.*

- Stormwater Management Policy: EHS documents the status of the Stormwater Management Policy that serves as the ordinance or regulatory mechanism with the chart labeled *Illicit Discharge Detection and Elimination.*

- Dry Weather Inspections: EHS continues to perform the dry weather screenings for all (100%) outfall locations (14 in total) at least once annually in the dry season. This is notated as Yes/No in the chart labeled *Illicit Discharge Detection and Elimination.*

- Employee Training: EHS documents in the chart labeled *Illicit Discharge Detection and Elimination* the number of individuals throughout campus that have receivedtraining related to this BMP. In-person training occurs quarterly, while computer-based training is available as needed.

- Illegal Discharge/Dumping Detection and Reporting: EHS documents in the chart labeled *Illicit Discharge Detection and Elimination* if there was an Illicit Discharge that occurred.

	FY-23	FY-24	FY-25	FY-26	FY-27
Storm Sewer Map	Yes Updated 2018				
Stormwater Management Policy	Yes Approved 5-26-2023				
Dry Weather Inspections	Yes 100% (14 of 14)				
Employee Training	347				
Illegal Discharge/Dumping Detection and Reporting	None Reported/Detected				

Illicit Discharge Detection and Elimination.

III. Construction Site Storm Water Runoff Control

This control measure consists of ways to reduce pollutants, to the maximum extent practicable, in runoff from qualifying construction sites. Sediments are of the greatest concern.

1) Stormwater Management Policy

EHS has developed a University-wide Stormwater Management Policy. The policy serves as the ordinance or regulatory mechanism relating to campus stormwater. A copy of the Stormwater Management Policy is included for review in Appendix A.

2) Education

Training includes site management, reporting discharges and evaluation of inspection results. This training is provided to Project Supervisors and Construction Site Operators.

3) Construction Plan Review

All UA construction plans incorporate BMPs. Written sediment and erosion control plans are part of all applicable construction plans. All construction plans have been reviewed and approved for 2023.

4) Construction Site Inspections

Contractors and project managers are required to conduct construction site inspections. Most corrective actions in the past have involved silt fence maintenance. A list of active construction sites within the MS4 during the 2023 reporting year are provided in Appendix E.

5) Construction Site Problem Reporting

- The University of Alabama encountered one stormwater Best Management Practice (BMP) incident in which the BMP's were in place but overwhelmed. This incident occurred at the

University's Intercollegiate Golf Facility that is currently under construction. This facility is not adjacent or contiguous to The University of Alabama campus and therefore is not included in the area under The University of Alabama MS4 permit. Additionally, this incident was due to a pipe under an adjacent railroad being totally blocked due to roots growing thru the pipe. This issue was resolved by the railroad replacing this pipe.

6) Non-Compliant Construction Site Referrals and/or Enforcement Actions
There have not been any non-compliant construction site referrals and/or enforcement actions reported to EHS by Construction Administration during the 2023 reporting period.

7) Utilization of BMPs
A chart is maintained documenting the presence of a stormwater management policy, education/training, construction plan review (if any changes), construction site inspections, and construction site problem reporting, and non-compliant construction site referrals and/or enforcement actions, if any.

BMPs

- Stormwater Management Policy: EHS documents the status of the Stormwater Management Policy that serves as the ordinance or regulatory mechanism with the chart labeled *Construction Site Storm Water Runoff Control*

- Education: EHS will continue to document in the chart labeled *Construction Site Storm Water Runoff Control* how many individuals throughout campus have received training. Additionally, MS4 staff/inspectors are documented in Appendix B as required by certification or attendance records.

- Construction Plan Review: EHS will continue to document in the chart labeled *Construction Site Storm Water Runoff Control* if any changes need to be made. This is notated as Yes/No along with a short description of changes necessary.

- Construction Site Inspections: EHS collaborates with Construction Administration on the number of inspections performed and, as well, provides a short description of any corrective actions taken. This is indicated in the chart labeled *Construction Site Storm Water Runoff Control* by the number of inspections and corrective actions during 2023.

- Construction Site Problem Reporting: EHS continues to collaborate with Construction Administration to determine if there were any reporting issues that needed to be investigated, including construction site runoff complaints. This is documented in the chart labeled *Construction Site Storm Water Runoff Control.*

- Non-Compliant Construction Site Referrals and/or Enforcement Actions: EHS documents in the chart labeled *Construction Site Storm Water Runoff Control* the number of non-compliant construction site referrals and/or enforcement actions and the descriptions of violations, if noted, as provided by Construction Administration.

	FY-23	FY-24	FY-25	FY-26	FY-27
Stormwater Management Policy	Yes Approved 05-26-2023				
Education	347				
Construction Plan Review	No No Changes				
Construction Site Inspections	217 Inspections				
Construction Site Problem Reporting	1* See III. 5				
Non-Compliant Construction Site Referrals and/or Enforcement Actions	0 Reported				

Construction Site Storm Water Runoff Control

IV. Post-Construction Storm Water Management in New Development and Redevelopment

1) Stormwater Management Policy

EHS has developed a University-wide Stormwater Management Policy. The policy serves as the ordinance or regulatory mechanism relating to campus stormwater. A copy of the Stormwater Management Policy is included for review in Appendix A.

2) Post-Construction Structural Controls

A list of post-construction structural controls installed and inspected during the permit year is included in Appendix C, along with the updated inventory of post-construction structural controls noted by The University of Alabama.

3) Post-Construction Structural Control Inspections

Inspections are performed as required on post-construction structural controls recognized by the University. A copy of the SOP for post construction BMP inspections are included in Appendix F.

4) Enforcement Actions

EHS documents any enforcement actions related to post-construction storm water management in new development and redevelopment.

5) Utilization of BMPs

A chart is maintained documenting the presence of a stormwater management policy and post-construction structural control inspections, along with any enforcement actions documented related to post-construction storm water management in new development and redevelopment. This information is maintained in the chart labeled *Post-Construction Storm Water Management in New Development and*

Redevelopment.

BMPs

- Stormwater Management Policy: EHS documents the status of the Stormwater Management Policy that serves as the ordinance or regulatory mechanism with the chart labeled *Post-Construction Storm Water Management in New Development and Redevelopment*.

- Post – Construction Structural Control Inspections: EHS documents the number of inspections performed on post-construction structural controls in the chart labeled *Post-Construction Storm Water Management in New Development and Redevelopment*.

- Enforcement Actions: EHS documents any enforcement actions related to post-construction storm water management in new development and redevelopment by listing reference to the actual enforcement mechanism in the chart labeled *Post-Construction Storm Water Management in New Development and Redevelopment*.

	FY-23	**FY-24**	**FY-25**	**FY-26**	**FY-27**
Stormwater Management Policy	Yes Approved 05-26-2023				
Post-Construction Structural Controls Inspections	62				
Enforcement Actions	None				

Post Construction Storm Water Management in New Development and Redevelopment

V. Pollution Prevention/Good Housekeeping for Municipal Operations

This control measure is designed to reduce and eliminate pollutants in stormwater that originates from operation and maintenance activities.

1) Municipal Facility Inventory

The University of Alabama maintains an active facility inventory. See Appendix D for a copy of the facility inventory.

2) Floatable Material

The University of Alabama maintains an estimated amount of floatable material collected from the MS4. This information is provided in the chart provided below.

3) Inspection Plan

The University of Alabama maintains an inspection plan to ensure specific standard operating procedures (SOPs), such as street sweeping, litter collection, herbicide application, vehicle maintenance, hazardous material management, and roadway maintenance, are maintained on campus. At present, there have not been any updates to the inspection plan. Documentation is provided below related to these specific SOPs. Additionally, various departmental inspections are conducted routinely

throughout all University facilities, which include external review of the building and grounds, internal storage, use, and disposal of chemicals, including waste, and material storage. Any deficiencies identified are noted within the inspection process, and appropriate steps are taken towards corrections.

a. Roadway Maintenance Projects
   - Rose Administration East Drive and northern half of East Annex Alley
   - Rose Administration Drive between Doster Hall and Drummond Lyon Hall
   - Bryant Denny Stadium concrete apron repairs near intersection of 8th Street and Wallace Wade
   - Paving entrance into west campus gravel lot for automated gate installation
   - University Boulevard from Hackberry Lane to 6th Avenue
   - Expansion of parking on the east side of The Highlands

b. Street Sweeping
   The University dedicates 40-man hours per week to street sweeping roadways. All campus roads are included.

c. Litter Collection
   Trash collection is a daily activity on campus. The locations of trash receptacles are periodically evaluated. Over 40-man hours per week are dedicated to trash and litter collection.

d. Herbicide Application
   Landscaped areas, open spaces, athletic fields, and recreational areas are among the University Grounds which are regularly treated with herbicides. Approximately, 750 gallons of dilute end-product is applied per week during growth seasons.

e. Vehicle Maintenance
   The University operates a full-service garage. Maintenance and service records are available for review at the UA garage.

f. Hazardous Material Management
   EHS continues to operate a hazardous material management program. This includes an inventory system, audits, recycling, and disposal of hazardous materials.

4) Employee Training
   University personnel have received training regarding pollution prevention and good housekeeping. These personnel are from EHS, Facilities & Grounds and other areas on campus.

5) Utilization of BMPs
   Documentation of the above-referenced BMPs will be recorded in a chart labeled *Pollution Prevention/Good Housekeeping for Municipal Operations*.

BMPs

- Municipal Facility Inventory: The University maintains an active facility inventory. A copy of this current inventory is included in Appendix D for review as noted by a

Yes/No in the chart provided labeled *Pollution Prevention/Good Housekeeping for Municipal Operations*.

- Floatable Material: An estimate of the floatable material collected from the MS4 is included in the table provided and labeled as *Pollution Prevention/Good Housekeeping for Municipal Operations*.

- Inspection Plan and Inspections Conducted: Provided in the chart below as indicated by a Yes/No is documentation of any changes to the inspection plan related to Pollution Prevention/Good Housekeeping for Municipal Operations, along with the number of inspections completed.

- Roadway Maintenance Projects: EHS collaborates with Construction Administration to list in the chart labeled *Pollution Prevention/Good Housekeeping for Municipal Operations* the total number of roadway construction/maintenance projects performed during the reporting year.

- Street Sweeping: EHS collaborates with Facilities and Grounds to document in the chart labeled *Pollution Prevention/Good Housekeeping for Municipal Operations* street sweeping, and document hours spent weekly.

- Litter Collection/Recycling: EHS collaborates with Facilities and Grounds to record litter collection and document hours spent weekly.

- Herbicide Application: EHS collaborates with Facilities and Grounds to be certain all necessary precautions are utilized to ensure no chemicals enter the storm drain, as notated in the chart as Yes/No, along with gallons of dilute product used. This information is found in the chart labeled *Pollution Prevention/Good Housekeeping for Municipal Operations*.

- Vehicle Maintenance: EHS collaborates with Automotive Services to determine if any corrective actions are needed to reduce potential storm drain pollution as possible from scheduled vehicle maintenance. This review is notated in the chart labeled *Pollution Prevention/Good Housekeeping for Municipal Operations* as any actions required or taken.

- Hazardous Materials Management: EHS documents any Hazardous Materials that could have potentially impacted the storm sewer system. Any required actions related to hazardous materials impacting the storm sewer system are noted in the *Pollution Prevention/Good Housekeeping for Municipal Operations* chart by the actions taken.

- Employee Training: EHS conducts routine training on the importance of water quality and stormwater. EHS will notate within the chart labeled *Pollution Prevention/Good Housekeeping for Municipal Operations* the total number of individuals that received training.

	FY-23	**FY-24**	**FY-25**	**FY-26**	**FY-27**
Municipal Facility Inventory	Yes Appendix D				

Floatable Material	24,547 lbs				
Inspection Plan and Inspections Conducted	No - 2,908 Inspections Conducted by EHS Departments Addressing Housekeeping Concern				
Roadway Maintenance Projects	- No Issues Noted				
Street Sweeping	40, man hours per week				
Litter Collection/Recycling	40, man hours per week				
Herbicide Application	Yes/750 Gallons Dilute				
Vehicle Maintenance	No Action				
Hazardous Material Management	No Action				
Employee Training	347				

Pollution Prevention/Good Housekeeping for Municipal Operations

VI. Summary

The University of Alabama Stormwater Management Program has greatly increased its presence on campus during the 2023 reporting year. Efforts continue to improve public involvement and education within the program. A primary strength of the Stormwater Management Program includes campus partner involvement. EHS continues to partner with University Construction Administration and multiple campus constituents, including, but not limited to, Facilities and Grounds, to further increase stormwater management. For a list of contacts and responsible parties of those who had input and are responsible for the preparation of the annual report, see Appendix G.

Appendix A

Stormwater Management Policy

Status Active PolicyStat ID 15389154

THE UNIVERSITY OF ALABAMA®

Origination	5/26/2023
Last Approved	3/28/2024
Effective	3/28/2024
Last Revised	5/26/2023

Owner	William Diltz: Environmental Safety Manager
Area	FO > C&RS > EHS
Applicability	The University of Alabama - All

Stormwater Management Policy

Purpose

The purpose of this policy is to ensure The University of Alabama ("University") manages its stormwater runoff in compliance with the requirements of the National Pollutant Discharge Elimination System (NPDES) General Permit ALR040000 ("Permit"), or subsequent permits, and the University's Stormwater Management Plan. The University's Stormwater Management Policy will govern the University's Stormwater Management Program. This Policy guides the University in administering the requirements and procedures of the Permit as required of the University and as administered by the Alabama Department of Environmental Management (ADEM). This policy is to provide for and promote compliance by the University with federal, state, and local laws governing the discharge of pollutants from the Municipal Separate Storm Sewer System (MS4) and to provide for and promote compliance with the NPDES stormwater program and the University's related permit(s). Ultimately, it is the responsibility of all members of the University to protect our waterways, including without limitation, protection of our MS4 and campus stormwater.

Policy

The United States Environmental Protection Agency (EPA) and ADEM have designated the University as an owner/operator of a Phase II MS4, as the University is an educational entity with a small stormwater system separate from the City of Tuscaloosa. As such, the NPDES permit associated with the MS4 requires development of a stormwater management program. The goal of the University's Stormwater Management Program is to protect water quality and prevent harmful pollutants from being discharged into the MS4 and our waterways to the maximum extent practical, including without limitation, the Black Warrior River.

To accomplish this goal, Environmental Health & Safety (EHS) develops an annual Stormwater Management Plan (SWMP) in concert with the UA Campus Master Plan as well as Campus Development and Construction Policies. The SWMP, in compliance with EPA and ADEM requirements, recommends

methods for the protection of the MS4 and to reduce adverse impacts to water quality and aquatic habitats, including best management practices (BMPs). BMPs are divided into six categories: 1) public education and public involvement, 2) illicit discharge detection and elimination (IDDE), 3) construction site runoff control, 4) post-construction stormwater management, 5) pollution prevention and good housekeeping, and 6) enforcement measures. Within the SWMP, details related to each BMP are outlined, along with the University entities responsible for measuring the effectiveness of BMPs. This information is reported annually to ADEM to verify the steps taken by the University to protect the MS4. For more information related to each BMP, refer to the EHS website.

The following controls must be incorporated into the University's Stormwater Management Program to protect water quality in our waterways and to prevent harmful pollutants from entering stormwater runoff. This includes, without limitation:

- Use of BMPs on the University campus, including construction sites;
- Inspection of construction sites to verify the use and proper maintenance of appropriated BMPs;
- Use of erosion and sediment control practices consistent with the Alabama Handbook for Erosion Control, Sediment Control, and Stormwater Management on Construction Sites and Urban Areas;
- Installation of storm sewer access covers on all new construction projects including storm sewer markers with unique identifiers;
- Strategic development and use of structural and/or non-structural BMPs (combinations) designed to ensure, to the maximum extent practical, that post-construction runoff mimics pre-construction hydrology. A design rainfall event with an intensity of up to that of a 2-year, 24-hour storm event will, at minimum, be the basis for the design and implementation of post-construction BMPs;
- Review and incorporation of Low Impact Development (LID)/Green Infrastructure (GI) options during the design of projects/construction, where feasible, as a design approach for managing stormwater runoff. LID/GI emphasizes conservation and use of on-site natural features to protect water quality, such as practices to preserve, restore, and create green space using soils, vegetation, and rainwater harvest techniques;
- Post-construction inspection of LID/GI and detention ponds to assure continued existence and function of any LID/GI or detention pond used in the construction that impacts stormwater runoff (e.g., permeable pavement or other surfaces or substrates, land conservation efforts to protect acres of open space, rows of trees along a major street, protection of large open natural spaces, use of bioswales or rain gardens placed in long narrow spaces such as the space between the sidewalk and the curb, or urban tree canopy to soak up stormwater and provide cooling shade);
- Training and education for the public, University employees, and construction site personnel on the importance of water quality, and efforts required to maintain water quality and reduce/ eliminate illegal dumping and littering. Training for construction project managers and contractors emphasizes the selection, design, implementation, and maintenance of erosion and sediment control mechanisms;
- Opportunities for public involvement (e.g., attendance at the stormwater committee meetings

or storm sewer marking program).

Construction sites may be subject to additional stormwater requirements as specified within the contract documents. Contract documents are specific for each site and can be reviewed by contacting Construction Administration.

In addition to applicable legal requirements, it is the policy of the University that all stormwaters shall be managed in accordance with the SWMP, and every person and entity operating on the University campus shall conduct its operations and/or activities in compliance with the SWMP, including, without limitation, adherence to required stormwater related signage prohibiting littering and illegal dumping, erosion and sediment controls, training, development, inspection, and use of BMPs as provided and referenced in the SWMP and related permit(s). The spilling, dumping, disposal, or discharge of materials other than stormwater causing illicit discharge of pollutants to the MS4 is prohibited. For more information on stormwater discharge, refer to the EHS website or contact EHS directly.

Finally, as the University is located within the Tuscaloosa City limits, stormwater ordinances outlined by the City of Tuscaloosa are also applicable. For more information related to Tuscaloosa NPDES Stormwater Compliance and related ordinances, see Chapter 21 Article IX of the City of Tuscaloosa Code of Ordinances, stating, in part, that "[a]ny person, firm, corporation, or agent, who shall violate a provision chapter or fails to comply therewith or with any of the provisions thereof, or who fails to maintain any low impact development/green infrastructure element or detention pond, shall be guilty of a misdemeanor[,] [and] the violation of or the noncompliance with each individual requirement, rule or regulation, and each day's continuation thereof, shall constitute a separate and distinct offense."

Enforcement

Failure to comply with the requirements specified in this policy may expose the University and those persons and/or entities involved to fines and other penalties. In addition, the University may impose fines and other penalties against any person or entity failing to comply with this policy, and may impose disciplinary actions, up to and including termination, against employees failing to comply with this policy. Every effort shall be made to resolve isolated violations of this policy. Repeated or gross violations of this policy, or those violations that cannot be successfully resolved, may be treated as a violation and potentially punishable in accordance with Code of Alabama, 1975, § 11-45-9 or other applicable laws or regulations. University employees with knowledge of a violation of this policy shall contact EHS at 205-348-5905. Individuals who observe any action or situation that could potentially be a violation of this policy or the University's Stormwater Permit are also encouraged to contact EHS.

Definitions

- **Alabama Department of Environmental Management (ADEM):** The governing body responsible for enforcing environmental regulations in the State of Alabama.
- **Best Management Practices (BMP):** Activities or structural improvements that help reduce the quantity of stormwater runoff (e.g., treatment requirements, operating procedures, and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage).
- **Clean Water Act (CWA):** Act passed by the United States Congress to control water pollution,

formally called the Federal Water Pollution Control Act of 1972 or Federal Water Pollution Control Act Amendments of 1972.

- **Environmental Protection Agency (EPA):** United States agency responsible for protecting human health and the environment.
- **Green Infrastructure (GI):** The range of measures that use plant or soil systems, permeable pavement or other permeable surfaces or substrates, stormwater harvest and reuse, or landscaping to store, infiltrate, or evapotranspiration of stormwater and reduce flows to sewer systems or surface waters (e.g., bioswales, rain gardens, permeable pavements, and green parking).
- **Illicit Discharge Detection and Elimination (IDDE):** A measure that consists of BMPs that focus on the detection and elimination of illicit discharges into the MS4. An illicit discharge is defined as any discharge to an MS4 that is not composed entirely of stormwater except those specified in the NPDES permit and exempt non-stormwater discharges (e.g., gasoline, diesel, motor oil, hydraulic fluid, or paint).
- **Municipal Separate Storm Sewer System (MS4):** A conveyance or system of conveyances owned by a state, city, town, village, or other public entity that discharges to waters of the United States.
- **National Pollutant Discharge Elimination System (NPDES):** The national program for issuing, modifying, revoking, reissuing, terminating, monitoring, enforcing permits, and or imposing and enforcing pretreatment requirements under sections 307, 318, 402, and 405 of the Clean Water Act (CWA).
- **Permit:** The National Pollutant Discharge Elimination System (NPDES) General Permit ALR040000 issued to the University of Alabama.
- **Stormwater:** Runoff occurring when precipitation flows over the ground, particularly impervious surfaces such as driveways, sidewalks, and streets that prevent stormwater runoff from naturally soaking into the ground.
- **Stormwater Management Plan (SWMP):** University plan developed for the implementation of NPDES permit requirements.
- **Stormwater Management Program:** University plans, procedures, and practices required by the EPA and ADEM to obtain an NPDES MS4 permit and NPDES construction stormwater permits for construction projects (disturbing one or more acres of land).
- **Stormwater Pollutant:** Chemicals, sediment, trash, disease-carrying organisms, and other contaminants picked up by stormwater as it runs off roofs, roads, etc. into rivers, streams, and other surface waters.

References

National Pollutant Discharge Elimination System General Permit, The State of Alabama, Permit Number ALR040000

Scope

This policy applies to all employees, students, contractors and guests on The University of Alabama campus.

Approval Signatures

Step Description	Approver	Date
Division	Cheryl Mowdy: Interim Vice President	03/2024
Workflow Review	Policy Manager [JC]	03/2024

Applicability

College of Community Health Sciences, The University of Alabama - Public, The University of Alabama - Secured

Appendix B

Training Documentation for MS4 Staff Inspectors

Appendix C

Post-Construction Structural Controls Installations and Inspections

Post-Construction Structural Controls at UA

1. Dry Detention Basin/Pond
2. Wet pond/Water Quality Pond/Retention Pond
3. Infiltration Basin
4. Grassed, Wet, and Dry Swales
5. Catch Basin with Manufactured System
6. Gross Solid Removal Devices
7. Oil/Water Separators
8. Infiltration Drain fields

Post-Construction Structural Controls Inspected by UA

1. Dry Detention Basin/Pond: Bryce Hospital, Entrance to USC, Behind First Transit, Near Bryce Lawn Apartments and Facilities and Grounds
2. Wet Pond/Water Quality Pond/Retention Pond: Marrs Spring and Palmer Lake
3. Infiltration Basin: Tutwiler
4. Grassed, Wet, and Dry Swales: Tutwiler
5. Catch Basin and Manufactured System: Tutwiler and Triangle Lot
6. Gross Solid Removal Devices: Storm Drain Grates, Several Sub Surface Sumps Throughout Campus
7. Oil/Water Separators: First Transit, Fleet Services and Grounds Maintenance
8. Infiltration Drain fields: Tutwiler

Appendix D

Facility Inventory

Appendix E

Active Construction Sites for 2023 Reporting Year

Active Construction Sites
April 1, 2023 – March 31, 2024

- Smart Communities and Innovation Building
- Peter Bryce Main Renovation
- Campus Energy Delivery Optimization and Efficiency Plan
- Drummond Lyon Hall
- UA Golf Course
- USGS Hydrologic Instrumentation Facility (Federal Project)
- Water Distribution System Enhancements
- Gorgas Library Core Support
- Drainage Improvements by the Law School
- Student Center North Parking Lot Enhancements
- University Boulevard Lot Stormwater Improvements
- UA Flint River Drive Parking Lot Improvements

Appendix F

SOP for Post-Construction BMP

Post-Construction Site Details Enter site details.		
Site/Building Name Provide Site/Building Name and details.	Long Text	
Inspection Date Enter inspection date.	Date	
Inspector Name and Signature Enter inspector name. This serves as evidence of the inspectors name and signature, as well.	Short Text	
Storm Water BMP Condition Provide information related to the storm water BMP(s).		
Storm Water BMP Condition Provide details related to the Storm Water BMP condition that includes the quality of vegetation and soils, inlet and outlet channels and structures, embankmen...	Multiple Select Operating as Designed, Operating, but with Deficiency, Completely Deficient	
Do site BMPs appear to be functioning effectively as designed? Provide any notes related to the BMPs under Storm Water BMP Condition.	Multiple Select Yes, No, NA	
Does the site have adequate vegetation coverage? No Detail Provided	Multiple Select Yes, No, NA	
Maintenance Concerns related to the BMP Provide maintenance information related to the BMPs.		
Specific Maintenance Items (Notes) or Violations Requiring Correction Provide details related to specific maintenance items or violations that need to be corrected by the owner/operator of the storm water control or BMP. Provide ...	Long Text	
Is there excessive trash, debris, landscape waste, or sediment at the site? Provide details related to this issue in the maintenance item/notes section.	Multiple Select Yes, No, NA	
Does the site have evidence of erosion? Provide additional information as needed in the notes related to the maintenance item or BMPs.	Multiple Select Yes, No, NA	
Does the site have bare exposed soil? Provide details in notes as needed.	Multiple Select Yes, No, NA	
Do any inlets, outlets, grates, or other designed drainage features appear damaged or obstructed? Provide details under Specific Maintenance Items (Notes) or Violations Requiring Correction.	Multiple Select Yes, No, NA	
Corrective Actions to Monitor Provide corrective action information related to corrective actions of poorly functioning or inadequately maintained post-construction BMPs.		
Were there any previous deficiencies related to Post-Construction? Provide details related to previous post-construction deficiencies noted.	Long Text	
Details of BMPs that Require Further Monitoring Enter details of BMPs that require corrective actions to poorly functioning or inadequately maintained post-construction BMPs.	Long Text	

Appendix G

Contacts

University of Alabama Stormwater Management Contacts				
Department	**Name**	**Phone Number**	**Address**	**Email Address**
Environmental Health & Safety (EHS)	Darren Moss	205-348-5905	1500 Warrior Drive, Tuscaloosa, AL 35404	drmoss@ua.edu
Environmental Health & Safety (EHS)	Christy Herron	205-348-5905	1500 Warrior Drive, Tuscaloosa, AL 35404	cherron@ua.edu
Environmental Health & Safety (EHS)	BJ Diltz	205-348-5905	1500 Warrior Drive, Tuscaloosa, AL 35404	wjdiltz@ua.edu
Environmental Health & Safety (EHS)	Jay Thomas	205-348-5905	1500 Warrior Drive, Tuscaloosa, AL 35404	Jwthomas1@ua.edu
Construction Administration	Richard C. Powell, P.E.	205-348-1392	1054 Campus Management and Design Building, Tuscaloosa, AL 35404	Rcpowell2@ua.edu
Associate Vice President for Finance and Operations	Cheryl Mowdy, Responsible Official	205-348-4530	271 Rose Administration Box 870142, Tuscaloosa, AL 35487	Cmowdy1@ua.edu