

Stormwater Annual Report

Reporting Period

April 1, 2020 – March 31, 2021

DATE: May 10, 2021

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The Stormwater Management Plan provides steps to reduce pollutants which are detailed in the Best Management Practices (BMPs). BMPs are used to educate and inform the public regarding: Public Education and Outreach Measures, Public Involvement, Illicit Discharge Detection and Elimination, Construction Site Run Off Control, Post Construction Site Run Off and Pollutant Prevention.

I. Public Education and Outreach

Environmental Health & Safety (EHS) developed a public education and outreach program designed to inform and educate the campus and the community at large. The pollution impact of stormwater 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.

1) Multi-Media Platforms

- a. Public service advertisements are utilized. Notices and educational information are printed in regular intervals and included in the Crimson White newspaper, on transitbuses and on digital media platforms.
- b. EHS maintains a website which provides information, educational opportunities and the written Stormwater Management Program at <http://ehs.ua.edu/operations/environmental-programs/stormwater-management-program/>
- c. Twitter (https://twitter.com/EHS_UA) is a platform for social media posts used to provide information to the community.

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

- 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 SkillPort 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 stormwater runoff is a priority of the public service and information provided by EHS.

3) Education of University and Construction Project Managers

- 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) 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.



BMP's

- Printed Materials: 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, fliers, posters, etc. Actual number of disseminated documents will continue to be recorded in the chart labeled as public education and outreach.
- Stormwater Social Media (Twitter-@EHS_UA): EHS continues to update as needed and track the followers in the chart.
- 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 public service advertisement schedule of distribution.
- Impacts of Illegal Dumping and Littering: EHS continues to document training efforts in the chart, the number of individuals trained are noted as a number indicating those having received training in the chart labeled *Public Education and Outreach*.
- Education Concerning Construction Activities: EHS, in conjunction with Construction Administration, documents the number of individuals that have received training in the chart.
- Education on Importance of Stormwater: EHS documents the number of distributed pamphlets throughout campus, and, as such, the chart documents the number of materials/advertisements, provided as *Public Education and Outreach*.
- Education of University and Contractor Personnel: EHS, in conjunction with Construction Administration, will continue to document the number of contractors that have received training in the chart labeled *Public Education and Outreach*.

	FY-18	FY-19	FY-20	FY-21	FY-22
Printed Materials	N/A Goal of 50 set for 2019	50	50		
Stormwater Social Media	629 followers	640 followers	628 followers		
Public Service Advertisements	Yes Quarterly 2018	Yes Quarterly 2019	Yes Quarterly 2020		
Illegal Dumping and Littering	105	93	19 Covid		
Education of Construction Activities	112	93	19 Covid		



Education on Importance of Stormwater	N/A Goal of 50 set for 2019	50	50		
Education of University and Contractor Personnel	8	7	7		

Public Education and Outreach

II. Public Involvement

EHS solicits public involvement in the Stormwater Management Program with the use of the Stormwater Committee and with the Storm Sewer Marking Program.

1) Stormwater Management Committee

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
- Joey Howell – Environmental Hazard Technician
- Tim Leopard – Senior Associate Vice President for Campus Development
- Isaac Falls - Director of Automotive Services
- Mike Turner – Plumbing Shop Manager
- Steven Mize - Plumbing Shop Assistant Manager
- Randy Mathis - HVAC Manager
- Collin Sewell - Director of Facilities Maintenance
- Tony Johnson - Senior Executive Director Logistics & Support Services
- Julie Salter - Assistant Director of Student Media
- Tom Love - Assistant Vice President of Construction Administration
- Richard Powell - Staff Civil Engineer, Construction Administration
- Al Willingham - University Surveyor, Construction Administration
- Lin Hendrix - University Recreation & Grounds Manager
- Brandon Sevedge - Director of Athletic Facilities
- Joe Cobb - Director of Construction Services
- Paul Wuebold - Senior Executive Director of Facilities and Grounds
- Additional Representation for EHS (Director, Assistant Director for Environmental & Lab Safety, & Environmental Manager)

2) Storm Sewer Marking

Approximately 43% of the storm sewer covers on campus have been marked with “No Dumping Drains to River” disc or new covers which are marked appropriately when manufactured.

3) Utilization of BMPs

A chart is maintained documenting completion of the Stormwater Management Committee meeting(s) and completion of the Storm Sewer Marking Campaign.

BMP's

- Stormwater Management Committee: EHS holds at a minimum one Committee meeting annually. This will be notated in the chart below as Yes/No in the chart labeled *Public Involvement*.



- Storm Sewer Marking Campaign: EHS will continue to collaborate with Construction Administration on the number of discs and/or storm sewer covers that have been installed and document the percentage installed within the chart labeled *Public Involvement*.

	FY-18	FY-19	FY-20	FY-21	FY-22
Stormwater Management Committee	Yes 1-30-2018	Yes 4-11-2019	Yes 5-29-2020		
Storm Sewer Marking Campaign	30%	+3%	+10%		

Public Involvement

III. Illicit Discharge Detection and Elimination

This measure focuses on BMPs concerned with the detection and elimination of illicit discharges.

- 1) Stormwater Sewer System Map
Revisions have been made to the system map in 2018. Modifications and additions are made as they occur.
- 2) Dry Weather Inspections
Dry weather screenings are complete for 2020.
- 3) Employee Training
The number of UA personnel trained as part of Illicit Discharge Detection and Elimination BMP was 19. Personnel from EHS, Construction Administration, UA Facilities & Grounds were included.
- 4) Illegal 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.
- 5) Utilization of BMPs
A chart is maintained documenting the annual review and update of the Storm Sewer Map, Dry Weather Inspections, and Employee Training.

BMP's

- 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 and Elimination*.
- Dry Weather Inspections: EHS continues to perform the dry weather screenings for all outfall locations at least once a year 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 received training.



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

	FY-18	FY-19	FY-20	FY-21	FY-22
Storm Sewer Map	Yes	Yes	Yes		
Dry Weather Inspections	Yes	Yes	Yes		
Employee Training	112	93	19 Covid		
Illegal Dumping Detection and Reporting	None Reported/Detected	1 Mechanical Failure NRC # 1274423 & 1274426	None Reported/Detected		

Illicit Discharge Detection and Elimination.

IV. Construction Site Runoff Control

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

1) Education

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

2) 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 2020.

3) 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.

4) Construction Site Problem Reporting

There have been no public reports related to construction site problems.

5) Utilization of BMPs

A chart is maintained documenting the education/training, construction plan review (if any changes), construction site inspections, and construction site problem reporting, if any.

BMP's

- Education: EHS will continue to document in the chart labeled *Construction Site Runoff Control* how many individuals throughout campus have received training.
- Construction Plan Review: EHS will continue to document in the chart labeled *Construction Site 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 Runoff Control* by the number of inspections and corrective actions during 2020.
- Construction Site Problem Reporting: EHS continues to collaborate with Construction Administration to determine if there were any reporting issues that needed to be investigated.

	FY-18	FY-19	FY-20	FY-21	FY-22
Education	112	93	19 Covid		
Construction Plan Review	No Changes	No Changes	No Changes		
Construction Site Inspections	190 Inspections/ One Insufficient BMP Silt Fence	112 Inspections	82 Inspections		
Construction Site Problem Reporting	None	None	None		

Construction Site Runoff Control

V. Post Construction Site Runoff

1) Plan Review

All construction plans are reviewed to determine if post construction runoff will negatively affect stormwater.

2) Protection of Sensitive Waters

The 303(d) listing of impaired waters is routinely reviewed to ensure that local bodies of water which receive stormwater runoff are not listed.

3) Local Interaction

The University interacts with the City of Tuscaloosa which is an adjacent Municipal Separate Storm Sewer System (MS4). Additionally, The University interacts with ALDOT, as well as Alabama Southern Railroad if the need arises.

4) Utilization of BMPs

A chart will capture the reviews and/or updates of the Plan Review, Protection of Sensitive Waters list, and Local Interactions as noted below.

BMP's

- Plan Review: EHS documents if changes need to be made to the plan documents and this is notated as Yes/No in the chart labeled *Post Construction Site Runoff*, as well as a short description of changes made.



- Protection of Sensitive Waters: EHS collaborates with Construction Administration to determine if sensitive waters will be affected. This is notated as Yes/No in the chart labeled *Post Construction Site Runoff*. If yes, a short description will be noted of location affected.
- Local Interaction: EHS will continue to coordinate with The City of Tuscaloosa as needs arise, this is notated as Yes/No in the table labeled *Post Construction Site Runoff*.

	FY-18	FY-19	FY-20	FY-21	FY-22
Plan Review	No Changes	No Changes	No Changes		
Protection of Sensitive Waters	N/A	N/A	N/A		
Local Interaction	N/A	N/A	N/A		

Post Construction Site Runoff

VI. Pollutant Prevention

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

- 1) Roadway Maintenance
Projects include the University Club Parking Lot, ¼ of Capstone Drive between 6th and 9th street, Mary Burke Service Drive off Bryant Drive, and Miscellaneous spot repairs along Peter Bryce Blvd, Devotie, 4th Street, Coliseum street, and Marrs Spring.
- 2) Street Sweeping
The University dedicates 40-man hours per week to street sweeping roadways. All campus roads are included.
- 3) Litter Collection
Trash collection is a daily activity on campus. The location of trash receptacles is periodically evaluated. Over 40-man hours per week are dedicated to trash and litter collection.
- 4) Herbicide Application
Landscaped areas, open spaces, athletic fields, and recreational areas are among the University Grounds which are regularly treated with herbicides. Approximately, 650 gallons of dilute end-product is applied per week during growth seasons.
- 5) Vehicle Maintenance
The University operates a full-service garage. Maintenance and service records are available for review at the UA garage.
- 6) Hazardous Material Involvement
EHS continues to operate a hazardous material management program. This includes an inventory system, audits, recycling, and disposal of hazardous materials.



7) 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.

8) Utilization of BMPs

Documentation of the above-referenced BMPs will be recorded in a chart labeled *Pollutant Prevention*.

BMP's

- Roadway Maintenance: EHS collaborates with Construction Administration to list in the chart labeled *Pollutant Prevention* the total roadway construction/maintenance performed yearly.
- Street Sweeping: EHS collaborates with Facilities and Grounds to document in the chart labeled *Pollutant Prevention* street sweeping, and document the hours spent weekly.
- Litter Collection/Recycling: EHS collaborates with Facilities and Grounds to record litter collection and document the 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, and notate in the chart as Yes/No, and gallons of dilute product used in the chart labeled *Pollutant Prevention*.
- Vehicle Maintenance: EHS collaborates with Facilities and Grounds (Automotive Services) and will determine if any corrective actions need to be made to reduce potential Storm Drain pollution from scheduled vehicle maintenance and notate in the chart labeled *Pollutant Prevention* as Yes/No.
- Hazardous Materials Management: EHS documents any Hazardous Materials that could have potentially impacted the Storm Sewer system and will notate in the chart as Yes/No in the chart labeled *Pollutant Prevention*.
- Employee Training: EHS conducts annual and quarterly training on the importance of water quality and Stormwater. EHS will notate within the chart labeled *Pollutant Prevention* the total number of individuals that received training.

	FY-18	FY-19	FY-20	FY-21	FY-22
Roadway Maintenance	4 - No Issues Noted	8 - No Issues Noted	4 - No Issues Noted		
Street Sweeping	40, man hours per week	40, man hours per week	40, man hours per week		
Litter Collection/Recycling	40, man hours per week	40, man hours per week	40, man hours per week		
Herbicide Application	Yes/750 Gallons Dilute	Yes/750 Gallons Dilute	Yes/650 Gallons Dilute		



Vehicle Maintenance	No Action	No Action	No Action		
Hazardous Material Management	No Action	No Action	No Action		
Employee Training	112	93	19 Covid		

Pollutant Prevention

