

Department of Engineering
Tim Bryan, P.E., PTOE, County Engineer

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MEMORANDUM

January 2, 2024

To: Casey Brannon, Supervisor, District I
Trey Baxter, Supervisor, District II
Gerald Steen, Supervisor, District III
Karl Banks, Supervisor, District IV
Paul Griffin, Supervisor, District V

From: Tim Bryan, P.E., PTOE
County Engineer

Re: 2023 Annual Report of NPDES Phase II Stormwater Program
Allen Engineering and Science

The Engineering Department is requesting the Board accept the 2023 Annual Report of the NPDES Phase II Stormwater Program for Madison County as prepared by Allen Engineering and Science. It is also requested that the Board authorize Board President to sign the document and submit it to MDEQ.

CASEY BRANNON
District One

TREY BAXTER
District Two

GERALD STEEN
District Three

KARL M. BANKS
District Four

PAUL GRIFFIN
District Five

NPDES Phase II Stormwater Program 2023 Annual Report

**Prepared for:
Madison County, Mississippi**

**Submitted to:
The Mississippi Department of
Environmental Quality
Office of Pollution Control
Environmental Compliance and
Enforcement Division**

January 28, 2024



ANNUAL REPORT FORM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) GENERAL PERMIT



GENERAL PERMIT: MSRMS4 0 3 1. This coverage number must be completed for the referenced MS4 or this form will be considered incomplete and will be returned. The coverage number can be found at the bottom left corner of your Certificate of Coverage.

This report covers MS4 Storm Water Management Program activities occurring during calendar year (type "X" in box next to year):

2021 (Year 1)

2022 (Year 2)

2023 (Year 3)

2024 (Year 4)

2025 (Year 5 – Repeat)

INSTRUCTIONS

Please use this form to satisfy the reporting requirements of ACT7, S-2 of the MS4 General Permit. Use of another form/format or failure to fully complete any section of this Annual Report Form may result in agency review delays or notifications of MS4 non-compliance. If a particular part or section is not applicable to your MS4, fill in as "N/A".

Coverage recipients are encouraged to utilize the electronic version of this form, which allows the data fields in the following tables to be expanded to contain all of the required information. The electronic form is available in the MS4 section of MDEQ's General Permits webpage at: http://www.deq.state.ms.us/MDEQ.nsf/page/epd_epdgeneral

The submittal of the fifth and final Annual Report (due no later than January 28, 2013) shall be deemed to be a notification of the MS4's intent to be covered by the subsequently issued MS4 General Permit, provided the Annual Report is signed by a principal executive officer or ranking elected official according to ACT9, T-5 of this permit.

Do **NOT** include any attachments **EXCEPT** for those specifically requested in this form. Supporting documentation for annual reports should be maintained with the SWMP and should be available for review during periodic MDEQ inspections and audits.

NOTE: 3-RING BINDERS WILL NOT BE ACCEPTED DUE TO LIMITED FILING SPACE AT MDEQ

MS4 INFORMATION

MS4 NAME: Madison County

MS4 MAILING ADDRESS: P.O. Box 608 CITY: Canton ZIP: 39046

MS4 COUNTY: Madison County

PRIMARY LOCAL CONTACT NAME (responsible for storm water program implementation): Tim Bryan, P.E.

CONTACT'S TITLE: County Engineer OFFICE PHONE: (601) 855-5670

E-MAIL ADDRESS (local contact): Timothy.Bryan@madison-co.com

SECTION I: SUMMARY OF IMPLEMENTATION ACTIVITIES BY MINIMUM MEASURE AND BEST MANAGEMENT PRACTICE

ACT7, S-2 of the MS4 General Permit requires the coverage recipient is to annually summarize the progress made in implementing the conditions of the permit and the elements of the Storm Water Management Program (SWMP). Complete the following tables for each of the six SWMP minimum measures.

The **Comments** column should contain details regarding the steps that have been taken to implement the BMP. For those BMPs checked as not being in compliance, the **Comments** column should also contain an explanation for the non-compliance and an action plan/schedule for achieving compliance.

A. Public Education:

Best Management Practice	Measurable Goal	In Compliance?		Date Completed (If not, date to be completed)	Comments	Responsible Individual (Name or Job Title)
		Yes	No			
BMP #1 Materials for Direct Distribution	A newspaper/magazine insert will be drafted and published annually	X		10/26/2023	On October 26, 2023, Madeleine Nolan with WLBT news ran a story titled “Madison County moving forward with flood prevention plan – Supervisors approve project that also focuses on improving water quality”. The article discussed how money the County received would be used to reduce flooding in the Bear Creek Watershed, which runs from Gluckstadt to Canton.	County Engineer
BMP #2 Development and Presentation of Growth Readiness Training	Qualified County staff or qualified consultant will conduct one presentation annually to the Board of Supervisors	X		12/04/2023	Paul Lanning, RLA with Allen Engineering and Science gave a presentation to the Board of Supervisors on December 5, 2023 at 9:00 am. Stormwater issues were presented and discussed.	County Engineer
BMP #3 Children’s Outreach Program	Work with the Madison County Soil and Water Conservation District to continue implementing stormwater programs in select schools within the County	X		Throughout the 2023 Plan Year	The County works with the Madison County Soil and Water Conservation District (MCSWCD) to achieve this goal.	County Engineer / Madison County Soil and Water Conservation District

BMP #4 Stormwater Website	Update website annually	X		12/18/2023	The County has a Storm Water Informational page on the County's website (https://www.madison-co.com/county-departments/road-department/storm-water-info). No changes were needed this year.	County Engineer / Consultant
SECTION I (continued): B. Public Involvement:						
Best Management Practice	Measurable Goal	In Compliance?		Date Completed (If not, date to be completed)	Comments	Responsible Individual (Name or Job Title)
		Yes	No			
BMP #1 Storm Water Task Force Meetings	Hold a minimum of two (2) meetings annually	X		Semi-Annually (08/02/2023 and 12/11/2023)	The County holds routine meetings where stormwater issues are discussed while more specific meetings were held on August 2 and December 11 of the 2023 plan year.	County Engineer / Consultant
BMP #2 Participation in Annual Cleanup Events	Organize and host at least one annual cleanup event	X		04/01/2023	Madison County partnered with the City of Madison and the City of Ridgeland to hold the Household Hazardous Waste Day on Saturday April 1, 2023. The event was held at NorthPark Mall and ran from 7:00 a.m. until 12:00 a.m. The event was free to residents of Ridgeland, Madison and Madison County.	County Engineer
Stream/Park Cleanup	Organize and host at least one volunteer stream/park clean-up event annually	X		Throughout the 2023 Plan Year	Madison County partnered with the Madison County Detention Facility who provided inmates to help cleanup County parks such as Am Rogers Park located in Canton.	Parks Director / Consultant

SECTION I (continued):

C. Illicit Discharge Detection and Elimination:

Best Management Practice	Measurable Goal	In Compliance?		Date Completed (If not, date to be completed)	Comments	Responsible Individual (Name or Job Title)
		Yes	No			
BMP #1 Ordinance Review	The County will review the ordinance annually to evaluate the success of the existing ordinance.	X		2023/2024	In 2022 a DRAFT Illicit Discharge Ordinance was prepared. In 2024 the County plans to update the Subdivision Regulation Ordinance and the Illicit Discharge language will be included to meet this requirement. Once the Subdivision Regulations are finalized, the ordinance will go before the Board of Supervisors for Approval.	County Engineer / Consultant
BMP #2 County Employee Training - Illicit Discharge	Annually educate County employees on identifying and preventing illicit discharges within the County.	X		12/11/2023	The County held a training session on December 11, 2023 highlighting stormwater issues for forty-three (43) employees. This training presentation covered Illicit discharges, SWPPP components and SPCC elements.	County Engineer / Consultant
BMP #3 Outfall Mapping Program	The County will maintain a map showing outfalls related to major streams.	X		Throughout the 2023 Plan Year	The Madison County GIS department enters and collects this information.	County Engineer / Consultant
BMP #4 Dry-Weather Screening Inspections	The County will conduct semi-annual dry weather screening inspections as well as informal inspections throughout the reporting year and will document and address any illicit discharges noted during these inspections.	X		Throughout the 2023 Plan Year 08/02/2023 & 11/29/2023	The Madison County Road Department performs this task throughout the year. AllenES staff conducted dry weather screenings on 08/02/2023 and 11/29/2023 throughout the county to identify any illicit discharges or cross-connections.	County Engineer / Consultant

Provide the following information for illicit discharges detected within your MS4 during the reporting period for this Annual Report. Approximately 0 illicit discharges were detected by the County during routine inspections. However, 20 complaints were received for sediment in the roads.

SECTION I (continued):

D. Construction Site Storm Water Runoff Control:

Best Management Practice	Measurable Goal	In Compliance?		Date Completed (If not, date to be completed)	Comments	Responsible Individual (Name or Job Title)
		Yes	No			
BMP #1 Ordinance Review	Enforcement of the County's E&S control ordinance on all applicable construction activities. The County will evaluate, and if necessary, modify the existing Soil Erosion and Sedimentation Control Ordinance annually.	X		Annually	The Madison County Engineering Department perform this task.	County Engineer / Consultant / Planning and Zoning
BMP #2 Contractor / Developer Training	The County will hold an annual training session for local developers and contractors. The County will keep track of stop work orders due to failing E&S practices.	X		12/05/2023	The County held a contractor/developer training on 12/05/2023 from 9:00 am to 11:30 am at the City of Brandon's City Hall. The training was held in conjunction with City of Brandon, City of Madison, and the City of Ridgeland. A total of eighteen (18) contractors / developers / city staff / consultants attended the training.	County Engineer / Consultant
BMP #3 Erosion and Sediment Control Standards	Review Erosion and Sediment Control standards and update, as necessary, to highlight the updated MDEQ E&S document.	X		Annually	The Madison County Engineering Department perform this task.	County Engineer / Consultant
BMP #4 Site Plan Review Processes	Conduct site plan review on applicable site plans to ensure compliance with the approved County ordinances.	X		Throughout the 2023 Plan Year	Madison County Engineering Department conducts plan reviews and provides comments to the builders/contractors. The builders/contractors must address Madison County's comments before the plans will be approved.	County Engineer / Building and Permits

BMP #5 Construction Site Inspections	Implement the approved construction site inspection procedures described in the SWMP. Construction site inspection will be conducted routinely on all active construction sites.	X		Throughout the 2023 Plan Year	Madison County Engineering Department and in-house inspectors perform this task throughout the year on active construction sites.	County Engineer / Building and Permits
BMP #6 Inspection Staff Training	Educate County inspectors on identifying and preventing erosion and sediment control failures on construction sites.	X		12/11/2023	The County held a training seminar on December 11, 2023 for seven (7) employees at the County Road Department. Inspection procedures for construction sites and best management practices were covered. Also, changes to the Large Construction Permit were covered and discussed.	County Engineer / Consultant
BMP #7 County's Complaint Portal	Respond to all citizen complaints related to E&S control violations. In most cases, the County will respond to complaints within two (2) weeks.	X		Throughout the 2023 plan year.	The County received 20 complaints during the 2023 plan year. 20 complaints were resolved within (2) weeks.	County Engineer / Road Manager / Planning and Zoning

Provide the following information for construction projects permitted within your MS4 during the reporting period for this Annual Report.

Project Category	Number of Projects	Number and Type of Inspections	Number and Type of Enforcement Actions Taken
Small Construction (1- 5 Acres)	25	Daily inspections during construction (Erosion Control, Roads, Storm drains, Utilities, Detention/Retention)	The County ensures all erosion control devices are installed and working. No official enforcement actions were issued by the County although verbal warnings were issued but these warning are not captured by the County. All contractors/developers are notified should an erosion and control measure not be up to code and are required to bring said measure up to code prior to work/inspections to continue.

Large Construction (> 5 Acres)	7	Daily inspections during construction (Erosion Control, Roads, Storm drains, Utilities, Detention/Retention)	The County ensures all erosion control devices are installed and working. No official enforcement actions were issued by the County although verbal warnings were issued but these warning are not captured by the County. All contractors/developers are notified should an erosion and control measure not be up to code and are required to bring said measure up to code prior to work/inspections to continue.
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SECTION I (continued):

E. Post-Construction Storm Water Runoff Control:

Best Management Practice	Measurable Goal	In Compliance?		Date Completed (If not, date to be completed)	Comments	Responsible Individual (Name or Job Title)
		Yes	No			
BMP #1 Post-Construction Ordinance Review	The County will annually evaluate, and if necessary, modify the existing ordinance to best accomplish the goal of maintaining post-construction BMP's and protecting receiving waters from the negative effects of urban stormwater runoff.	X		On-going	The Madison County Engineering Department perform this task.	County Engineer / Planning and Zoning / Consultant
BMP #2 Post-Construction BMP Inventory	An inventory of all post-construction stormwater management structures, both public and private, within the county limits. The County will update the inventory as new structures are added or existing structures are identified.	X		Throughout the 2023 plan year.	The County has mapped the inventory of known post-construction BMP's in GIS and updates the database as new infrastructure is added or as existing structures are identified.	County Engineer
BMP #3 Post-Construction Correspondence	Send owners/operators of Post-Construction BMPs a copy of the document in order to ensure responsible parties are aware of the maintenance needs. A copy of the document sent to owners/operators as well as a record of who the document was sent to will be kept on file.	X		Throughout the 2023 Plan Year	The County has provided a maintenance guide, in the form of an informative 7-page packet, on the County's website at https://www.madison-co.com/county-departments/road-department/storm-water-info . Additionally, the County Engineer sent the maintenance guide to the head of the Madison County Homeowner's Association who distributed the packet to the various HOA's in the County.	County Engineer
BMP #4 Post-Construction Site Inspections	The County will inspect post-construction sites on county-owned property and will require, through ordinance, owners of post-construction BMPs on private property to inspect said controls on an annual basis.	X		Annually	The Madison County Engineering Department perform this task.	County Engineer

SECTION I (continued):

F. Pollution Prevention/Good Housekeeping for Municipal Operations:

Best Management Practice	Measurable Goal	In Compliance?		Date Completed (If not, date to be completed)	Comments	Responsible Individual (Name or Job Title)
		Yes	No			
BMP #1 Spill Prevention and Response Plans	The County will develop/revise spill prevention and response plans and make sure the contents of the plan are followed by County employees	X		2022	The county prepared a Stormwater Pollution Prevention Plan (SWPPP) for the Road Department Facility during the 2022 plan year.	County Engineer / Road Manager
BMP #2 Pollution Prevention Training for County Employees	Conduct the employee training program specified in the SWMP.	X		12/11/2023	The County held a training session on December 11, 2023 highlighting stormwater issues for forty-three (43) employees. This training presentation covered Illicit discharges, SWPPP components and SPCC elements.	Consultant / Tim Bryan / Madison County Engineering Department
BMP #3 Routine Maintenance	The County will conduct routine maintenance activities of public infrastructure to ensure that these infrastructure elements do not contribute to stormwater pollution.	X		Monthly during the 2023 Plan Year	The road department conducted routine maintenance of the stormwater conveyance systems and public road infrastructure throughout the County during 2023.	County Engineer / Road Manager
BMP #4 Waste Disposal	Track waste collected and disposed from the MS4 during the applicable plan year.	X		Throughout the 2023 plan year.	The County collected and disposed of approximately 843 tons of waste during the 2023 plan year.	County Engineer
BMP #5 New Flood Management Projects	The County will review all proposed flood management projects during the design phase to assess the project for potential water quality impacts.	X		Throughout the 2023 plan year.	The County contracted with Waggoner Engineering who conducted a Comprehensive County Wide Drainage Study that identified several projects/needs throughout the County in 2021. From this study, the county has received federal funding in the amount of 23.5 million dollars to implement stormwater improvement projects throughout the county.	County Engineer
BMP #6 Existing Flood Management Projects	The County will assess two (2) existing County-owned flood management projects per year for the potential for retrofitting each site to better address water quality impacts for the 5-year permitting cycle.	X		Throughout the 2023 plan year.		County Engineer
BMP #7 County Operations	Conduct inspections of each county facility each year during the 5-year permit term	X		08/02/2023	Paul Lanning, RLA, with Allen Engineering and Science conducted an inspection of the Road Department Facility on August 2, 2023 and submitted a report to the County for review.	County Engineer

SECTION II: ASSESSMENT OF THE APPROPRIATENESS OF BMPs

ACT7, S-2(1) of the MS4 General Permit requires the coverage recipient to assess the appropriateness of its BMPs in achieving the identified measurable goals for each of the minimum control measures. List each BMP adopted by the MS4 and rate its appropriateness. For BMPs rated “Inappropriate” or “Minimally Appropriate”, the MS4 should outline proposed changes to the program in Section IV of this form to address the deficiencies.

NOTE: Use the following codes for Minimum Measure ID: Public Education – **PE**; Public Involvement – **PI**; Illicit Discharge Detection and Elimination – **ID**; Construction Site Runoff Control – **CS**; Post-Construction Storm Water Management – **PC**; Pollution Prevention/Good Housekeeping - **PP**

Minimum Measure ID	Best Management Practice	We Consider the Listed BMP Appropriate to the Following Degree			
		Inappropriate	Minimally Appropriate	Good	Superior
PE 1	Materials for Direct Distribution			X	
PE 2	Development and Presentation of Growth Readiness Training			X	
PE 3	Children’s Outreach Program			X	
PE 4	Stormwater Website			X	
PI 1	Storm Water Task Force Meetings			X	
PI 2	Participation in Annual Cleanup Events				X
PI 3	Stream/Park Cleanup			X	
ID 1	Ordinance Review				X
ID 2	County Employee Training – Illicit Discharges				X
ID 3	Outfall Mapping Program			X	
ID 4	Dry Weather Screening Inspections				X
CS 1	Ordinance Review			X	
CS 2	Contractor/Developer Training				X
CS 3	Erosion and Sediment Control Standards			X	
CS 4	Site Plan Review Processes				X
CS 5	Construction Site Inspections				X
CS 6	Inspection Staff Training				X
CS 7	County’s Complaint Portal			X	
PC 1	Post-Construction Ordinance Review			X	
PC 2	Post-Construction BMP Inventory			X	
PC 3	Post-Construction Correspondence			X	
PC 4	Post-Construction Site Inspections			X	
PC 5	Design Standards			X	

SECTION V: CONTROL MEASURES PLANNED/IMPLEMENTED TO ADDRESS WASTELOAD ALLOCATIONS

ACT7, S-2(12) of the MS4 General Permit requires the coverage recipient to document all control measures being planned or implemented that may address the Wasteload Allocations (WLA) provisions of a Total Maximum Daily Load (TMDL) established for impaired receiving stream segments within the MS4 (if it is found that the MS4 must implement specific WLA provisions of a TMDL). The general permit also requires the MS4 to include an implementation schedule for all planned controls.

Approved TMDL / Water Body Name / Pollutant of Concern	Best Management Practice	Wasteload Allocation Details	Implementation Schedule
Big Black River / ID – 107811 / pH (TMDL Priority – High)	The County will focus a portion of the Public Outreach BMPs on addressing this issue.	N/A	2023-2024
Hobuck Creek / ID – 105511 / Biological Impairment (TMDL Priority – Low)	The County will focus a portion of the Public Outreach BMPs on addressing this issue. Biological Impairment is most likely the result of sedimentation from new construction, agricultural practices, and/or clear cutting. Educational brochures will be created and distributed to the public.	N/A	2023-2024
Little Bear Creek / ID – 105712 / Biological Impairment (TMDL Priority – Low)	The County will focus a portion of the Public Outreach BMPs on addressing this issue. Biological Impairment is most likely the result of sedimentation from new construction, agricultural practices, and/or clear cutting. Educational brochures will be created and distributed to the public.	N/A	2023-2024
Persimmon Creek / ID – 106311 / Biological Impairment (TMDL Priority – Low)	The County will focus a portion of the Public Outreach BMPs on addressing this issue. Biological Impairment is most likely the result of sedimentation from new construction, agricultural practices, and/or clear cutting. Educational brochures will be created and distributed to the public.	N/A	2023-2024
Rambo Creek / ID – 103912 / Biological Impairment (TMDL Priority – Low)	The County will focus a portion of the Public Outreach BMPs on addressing this issue. Biological Impairment is most likely the result of sedimentation from new construction, agricultural practices, and/or clear cutting. Educational brochures will be created and distributed to the public.	N/A	2023-2024

SECTION VI: OTHER INFORMATION (type “X” in all boxes that apply)

- During this reporting period, the MS4 has collected and analyzed monitoring data as part of its SWMP implementation (attach copies).
- During this reporting period, the MS4 relied on another government agency to satisfy some of its permit obligations (attach description of the SWMP components being delegated and a copy of the legal agreement between the MS4 and the implementing entity).

SECTION VII: REPORT CERTIFICATION AND SIGNATURE

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I also certify that the MS4 for which I am responsible has in effect, an accurate and up to date MS4 Notice of Intent (NOI) and Storm Water Management Plan (SWMP). I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Signature¹

Printed Name

01 / / 2024

Date

Board President

Title

¹This report shall be signed according to the ACT9, T-5 and T-6 of the MS4 General Permit.

**Please submit this form to: Chief, Environmental Compliance and Enforcement Division
MDEQ, Office of Pollution Control
P.O. Box 2261
Jackson, Mississippi 39225**