

**CITY OF GAUTIER
MEMORANDUM**

To: Paula Yancey, City Manager
From: Chad Jordan, Project Manager
Date: June 2, 2016
Subject: Stormwater Permit Renewal

REQUEST:

City Council approval to submit the 5 year stormwater permit to MDEQ as presented by Allen Engineering and Science.

BACKGROUND:

The City is required by the Mississippi Department of Environmental Quality to develop and implement a Stormwater Management program which includes public education, training, public participation, illicit discharge detection and elimination, construction site runoff control, post construction site runoff control, pollution prevention and general housekeeping as it relates to the City's stormwater drainage network and other facilities. The Stormwater Permit and Management plan must be renewed every 5 years and the City's current permit expired on May 31, 2016. The City had previously approved Allen Engineering (formerly Eco-Systems) to prepare the permit renewal.

RECOMMENDATION:

It is recommended that the council submit the 5 year stormwater permit to MDEQ as presented by Allen Engineering and Science.

ATTACHMENT:
Stormwater Permit



MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY

RE-COVERAGE FORM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) GENERAL PERMIT

GENERAL PERMIT: MSRMS4 __ __ __. 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 previous Certificate of Coverage.

INSTRUCTIONS

The submittal of this form is required to receive coverage under the reissued Small Municipal Separate Storm System (MS4) General Permit. This form, with an original signature, must be completed and returned to MDEQ at the address printed at the bottom of this form within 60 days of the date of the Letter of Instruction for Re-Coverage.

Submittals with this Re-Coverage Form must include:

- A Storm Water Management Program (SWMP) as required by ACT 5 of the General Permit
- Copies of current municipal storm water ordinances, or if not a city or county, copies of current regulatory mechanisms that address storm water management
- A location map must be attached, if location boundaries have changed since initial coverage issuance
- Copy of current Storm Water Pollution Prevention Plan (SWPPP) or Plans

Additional submittals may include:

- Appendix A and associated Joint MS4 legal documents, if applicable

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

MS4 APPLICANT INFORMATION

MS4 NAME: _____

MS4 MAILING ADDRESS: _____

MS4 CITY: _____ STATE: _____ ZIP: _____

MS4 COUNTY: _____

MS4 IS A: CITY/TOWN COUNTY OTHER: _____

IS THIS A JOINT RE-COVERAGE FORM BEING SUBMITTED? YES NO
(If yes, a completed Appendix A must accompany submittal)

MS4 POPULATION: _____

PRIMARY LOCAL CONTACT NAME (responsible for storm water program implementation): _____

CONTACT'S TITLE: _____ OFFICE PHONE: (____) _____

CELL PHONE: (____) _____ FAX NUMBER: (____) _____

E-MAIL ADDRESS (local contact): _____

E-MAIL ADDRESS (legally responsible person): _____

SECONDARY LOCAL CONTACT NAME (knowledgeable about program, if primary contact is unavailable) _____

OFFICE PHONE: (____) _____ CELL PHONE: (____) _____

LOCATION DESCRIPTION OF MS4 (not required for cities and counties)

PROVIDE A NARRATIVE DESCRIPTION OF THE GEOGRAPHICAL LOCATION OF THE MS4 FOR FACILITIES SUCH AS MILITARY BASES, SPECIAL DISTRICTS AND ASSOCIATIONS, AND LARGE COMPLEXES (education, hospital, prison, etc.). _____

RECEIVING WATER INFORMATION

IDENTIFY THE MAJOR RECEIVING WATERS (named on a USGS Quad Map) WITHIN THE MS4 BOUNDARIES. IN ADDITION, NOTE THOSE THAT ARE 303(d) LISTED IMPAIRED WATERBODIES WITHIN THE PERMITTED AREA (a complete list of 303(d) listed impaired waters may be found on MDEQ's web site: <http://www.deq.state.ms.us>).

<u>RECEIVING STREAM</u>	<u>CHECK IF 303(d) LISTED</u>	<u>RECEIVING STREAM</u>	<u>CHECK IF 303(d) LISTED</u>
_____	<input type="checkbox"/>	_____	<input type="checkbox"/>
_____	<input type="checkbox"/>	_____	<input type="checkbox"/>
_____	<input type="checkbox"/>	_____	<input type="checkbox"/>
_____	<input type="checkbox"/>	_____	<input type="checkbox"/>
_____	<input type="checkbox"/>	_____	<input type="checkbox"/>
_____	<input type="checkbox"/>	_____	<input type="checkbox"/>
_____	<input type="checkbox"/>	_____	<input type="checkbox"/>
_____	<input type="checkbox"/>	_____	<input type="checkbox"/>

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 directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Signature¹	Date
Printed Name	Title

¹This application shall be signed according to the General Permit, ACT10: SIGNATORY REQUIREMENTS as follows:

- For a corporation, by a responsible corporate officer.
- For a partnership, by a general partner.
- For a sole proprietorship, by the proprietor.
- For a municipal, state or other public facility, by either a principal executive officer, the mayor, or ranking elected official.

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



CONSTRUCTION MINIMUM MEASURE ASSISTANCE PETITION SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) GENERAL PERMIT

GENERAL PERMIT: MSRMS4 0 1 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 previous Certificate of Coverage.

INSTRUCTIONS

The form must be submitted to petition MDEQ to assume responsibility for the regulation of storm water runoff from construction activities five (5) acres and greater.

The MS4 General Permit requires regulated entities (MS4s) to develop and implement a Storm Water Management Program (SWMP) to reduce the discharge of pollutants from their storm water conveyance systems. The SWMP must include six (6) minimum control measures, including Construction Site Storm Water Runoff Control from construction activities that result in a land disturbance of greater than or equal to one (1) acre or less if part of a larger common plan of development or sale. ACT6, SHARING MINIMUM MEASURE RESPONSIBILITY of the General Permit allows the regulated entity to petition MDEQ to assume responsibility for the regulation of storm water runoff from large construction activities five (5) acres and greater.

Activities that disturb less than five (5) acres remain the MS4's responsibility, including activities that are part of a larger common plan of development or sale. For example, the MS4 is responsible for regulating storm water runoff from individual lot construction even though the large residential subdivision had been covered under MDEQ's Large Construction Storm Water General Permit.

If MDEQ agrees to assume this responsibility, the regulated entity is not required to include MDEQ's portion of the minimum control measure in the SWMP, nor required to address large construction in the annual report. If MDEQ does not agree to assume this responsibility, the regulated entity will be notified in writing.

MS4 INFORMATION

MS4 NAME:	City of Gautier		
MS4 MAILING ADDRESS:	3330 Highway 90		
MS4 CITY:	Gautier	STATE:	MS
		ZIP:	39553
MS4 COUNTY:	Jackson		
MS4 IS A:	<input checked="" type="checkbox"/> CITY/TOWN <input type="checkbox"/> COUNTY <input type="checkbox"/> OTHER:		
LOCAL CONTACT NAME (responsible for construction storm water program implementation):	Chad Jordan		
CONTACT'S TITLE:	Project Manager	OFFICE PHONE:	(228) 497-4283
CELL PHONE:	()	FAX NUMBER:	()
E-MAIL ADDRESS (local contact):	chad.jordan@clearwatersol.com		
E-MAIL ADDRESS (legally responsible person):	pyancey@gautier-ms.gov		

In accordance with ACT6, SHARING MINIMUM MEASURE RESPONSIBILITY of the General Permit, the regulated entity (MS4) described above, requests the Mississippi Department of Environmental Quality (MDEQ) to assume responsibility for regulating storm water runoff from large construction activities, five (5) acres and greater. I understand that the above MS4 is still required to develop and implement a Storm Water Management Plan to reduce pollutants from construction activities less than five (5) acres in accordance with ACT5 of the general permit.

--

Authorized Signature¹

Paula Yancey

Printed Name

--

Date

City Manager

Title

¹This application shall be signed according to the General Permit, ACT10, SIGNATORY REQUIREMENTS, as follows:

- For a corporation, by a responsible corporate officer.
- For a partnership, by a general partner.
- For a sole proprietorship, by the proprietor.
- For a municipal, state or other public facility, by either a principal executive officer, the mayor, or ranking elected official.

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

NPDES PHASE II STORMWATER MANAGEMENT PLAN

PREPARED FOR:

Gautier, Mississippi

PREPARED BY:



**6360 I-55 North, Suite 330
Jackson, Mississippi 39211**

MAY 2016

Jackson, Hattiesburg & Meridian, Mississippi /Mobile, Alabama/

Houston, Texas/ Atlanta, Georgia



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1.0 INTRODUCTION

1.1 EXECUTIVE SUMMARY

The City of Gautier is pleased to provide this NPDES Phase II Stormwater Management Plan to the Mississippi Department of Environmental Quality (MDEQ). This plan has been developed to address existing water quality issues and to prevent water quality impairment due to polluted stormwater runoff within the City of Gautier MS4 permitted area. The following program represents a revision of the original plan that was permitted during the initial Phase II permitting cycle from 2003-2007 in Mississippi as well as the second plan permitted during the second phase of the Phase II permitting cycle from 2009-2013. The third five-year permitting cycle will extend from 2016-2020. This plan has been developed as an issue-specific Five-Year Stormwater Phase II Program, and the specific issues to be addressed through the program are as follows:

1. Stormwater runoff pollution including general litter and debris, pesticides and fertilizers from lawns and runoff from streets and parking areas;
2. Illegal dumping and improper disposal of household hazardous wastes and automobile wastes;
3. Erosion and sedimentation associated with construction and development;
4. Leaking septic tanks and sewage pollution; and
5. Water quality impairments associated with city operations to include roadway and utility maintenance, recreational field's maintenance, and the operation of city owned facilities.

The program components include Public Education and Outreach on Stormwater Impacts, Public Involvement/Participation, Illicit Discharge Detection and Elimination (IDDE), Construction Site Stormwater Runoff Controls, Post-Construction Stormwater Management in New Development and Redevelopment, and Pollution Prevention/Good Housekeeping for Municipal Operations.

The City of Gautier is part of the Coastal Mississippi urbanized area and has experienced significant increases in development activity and urbanization within the last five years. This increase in development and potential development on natural systems within the city further illustrates the need for a strategic and comprehensive approach to stormwater management within the city. The purpose of this plan to provide the framework and guidance to direct the City's approach to water quality and stormwater management.

The City of Gautier Public Works Department is primarily responsible for the management and implementation of the Storm Water Management Program. However, the Public Works Department must work in conjunction with other City departments to ensure a successful program. The primary stormwater contact for the City of Gautier is Mr. Chad Jordan, Project Manager. Mr. Jordan may be reached by telephone at (228) 497-4283, by email at chad.jordan@clearwatersol.com, or by mail at 3330 Highway 90, Gautier, Mississippi 39553.



1.2 REGULATORY HISTORY

In 1987, Congress amended the Clean Water Act (CWA) to require a two-phased comprehensive national program to address stormwater discharges and the associated non-point source pollution occurring as a result of unregulated stormwater discharges. The first phase of the program, commonly referred to as “Phase I” was promulgated on November 16, 1990, (55 FR 47990). Phase I in 40 CFR Parts 9, 122, 123 and 124 requires National Pollution Discharge Elimination System (NPDES) permits for stormwater discharges from priority sources including municipal separate storm sewer systems (MS4s) generally serving populations of 100,000 or more, eleven categories of industrial activities, and construction sites that disturb five or more acres of land.

Phase II, which is the second phase of the stormwater program resulting from the 1987 CWA amendment, expands the existing Phase I Program to include discharges of stormwater from smaller municipalities located within Census-designated urbanized areas and from construction sites that disturb more than one acre of land.

The Stormwater Phase II Rule extends coverage of the NPDES Stormwater Management Program to certain “small” MS4s but takes a different approach than the Phase I Program with respect to how local programs are developed and implemented. The Phase II Program for MS4s is designed to accommodate a general permit approach using a Notice of Intent (NOI) as the permit application. The Phase II Rule automatically covers, on a nationwide basis, all MS4s located within Census-designated urbanized areas. All Phase II Plans must, at a minimum, address the following six minimum control measures:

- Public Education and Outreach on Stormwater Impacts,
- Public Involvement/Participation,
- Illicit Discharge Detection and Elimination (IDDE),
- Construction Site Stormwater Runoff Control,
- Post-Construction Stormwater Management in New Development and Redevelopment, and
- Pollution Prevention/Good Housekeeping for Municipal Operations.

1.3 RATIONALE STATEMENT

The selected issues to be addressed, the targeted audiences, the best management practices, and the associated measurable goals were determined based on the city’s experiences implementing the program over the past several years. Improper disposal of household hazardous wastes, illegal dumping, water quality impacts from failing septic systems, improper disposal of oil and grease, improper disposal of automotive wastes, improper disposal of paint wastes, sediment from construction sites and improper disposal of construction debris have been identified as water quality concerns through review of public complaint databases, MS Department of Environmental Quality 305(b) reports, MS Department of Environmental Quality Basin Committee Reports, and the city’s experiences implementing the program over the past several years.



1.4 OVERVIEW OF THE REQUIRED MINIMUM MEASURES

1.4.1 Public Education and Outreach on Stormwater Impacts - (PE)

Raising public awareness regarding water quality impairment and providing education to the public are essential to changing the behavior of private homeowners and the general public. Using education materials in conjunction with public service announcements prepared and aired by MDEQ, website links, and growth readiness training for city elected officials will assist in educating a wide range of the population. Educating the general public, automotive business owners, contractors, and developers and involving them in the process is vital to raise awareness and ultimately improve water quality.

1.4.2 Public Involvement/Participation - (PI)

Public awareness of water quality issues and a sense of civic pride can be raised by encouraging public participation and involvement in community events designed to engage the public in solutions to water quality impairment issues.

1.4.3 Illicit Discharges Identification and Elimination (IDDE) - (ID)

The proper identification of unsewered areas of concern depicted on maps; the review of current ordinances; regulations to prevent the installation of septic systems at new developments until proper site inspection have been conducted; routine outfall inspections; and the implementation of inspection and training programs will help in the detection of current illicit discharges and prevention of future illicit discharges.

1.4.4 Construction Site Stormwater Runoff Control - (CS)

In order to raise awareness of construction site stormwater runoff management, the City will utilize the following techniques: training programs for developers, contractors and municipal inspectors, require review and approval of written Erosion and Sediment Control plans, implementation, self-inspection, and reporting procedures. Enforcing Erosion and Sediment Control standards through local ordinances will provide contractors and developers with the incentive to effectively manage stormwater runoff.

1.4.5 Post-Construction Stormwater Management in New Development and Redevelopment - (PC)

Providing standards and guidance documents in conjunction with training and education will allow the City to promote measures that will directly address pertinent stormwater related issues. Requiring written stormwater management plans from contractors and developers will emphasize the importance of stormwater runoff management. The City's review of the submitted plans will allow the City the opportunity to promote the appropriate measures on a case-by-case basis prior to construction and through post-construction. The Stormwater Management Program includes annual reviews of current ordinances, creation of



a database of post-construction sites, distribution of standards for post-construction stormwater runoff management, and development of schedules, locations, and responsible parties for conducting inspections of stormwater runoff measures.

1.4.6 Pollution Prevention / Good Housekeeping for Municipal Operations (PP)

A major focus in pollution prevention/good housekeeping is employee education. For this reason, the program emphasizes training, communication, and planning. The pollution prevention program includes development of spill prevention and response plans for all municipal facilities, training for municipal employees based on the stormwater pollution prevention plan (SWPPP), increased interdepartmental communication, routine inspections, and continued maintenance activities.



2.0 MINIMUM CONTROL MEASURE (BMP) – PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS [ACT5(1)(A)]

2.1 OVERVIEW

The Public Education and Outreach minimum measure consists of BMPs that focus on the development and distribution of education materials designed to inform the public about the impacts of contaminated stormwater discharges on local water bodies and the cumulative impacts polluted discharges have on watersheds as a whole. The Public Education and Outreach efforts are designed to motivate the general public to take active steps to reduce pollutants in stormwater runoff. In addition, these BMPs provide mechanisms for the public to provide feedback to the City on issues and concerns related to stormwater management and water quality.

2.2 RATIONALE STATEMENT

Each BMP within the Public Education and Outreach Minimum measure included in the current Five-Year Plan was selected using a process of 1) research of local, state, and federal BMP databases, 2) consideration of existing practices with regard to applicability to existing water quality issues, 3) consideration of new practices with regard to economic impacts and impacts of integration into the regulated entity's operation systems, 4) consideration of the selected BMPs' applicability to regulation and general permit provisions, and 5) an analysis of the effectiveness of BMPs included within the first and second editions of the Five-Year Plans during the previous permitting cycles.

2.3 SUMMARY

The Public Education and Outreach Minimum Measure is organized to identify the following:

1. To identify how individuals, households and other stakeholders will be informed about the steps they can take to reduce stormwater pollution.
2. To identify how individuals, households and other stakeholders will be informed on how they can become involved in the City's Stormwater Management Program.
3. To identify specific mechanisms to reach target audiences, and
4. To identify who the target audiences are for the education programs specified in the education related BMPs.

Targeted audiences are selected based on the regulation requirements and on the stated goal of educating the community about the impacts of contaminated stormwater discharges on local water bodies and on entire watersheds. The Public Education and Outreach program, combined with the other BMPs, is expected to reach a majority of constituents within the MS4's permitted boundary over the life of the permitting cycle.

The targeted pollutant sources are sediments generated from construction areas, illicit discharges including litter, hazardous materials potentially transported on roadways, and household hazardous materials. Other targeted pollutants may be of local concern and include specific issues identified within approved TMDLs, 303(d) reports and other regulatory documents [ACT5(1)(C)(iv)].



Evaluations of success of specific BMPs will be established through careful analysis of the measurable goals for each BMP included within the Public Education and Outreach minimum measure. Each BMP will have a specific measurable goal that is established by discernment of attainable goals for the various BMP implementation steps and the capacity of responsible divisions within the context of financial and human resources to effectively meet stated goals.

2.4 BEST MANAGEMENT PRACTICES (BMP)

2.4.1 BMP #1: *Materials for Direct Distribution*

2.4.1.1 Description:

The City will develop and disseminate materials for the purpose of educating the public on stormwater quality issues related to developments (sediment); home lawn maintenance practices (fertilizer and pesticide use); proper disposal of trash to reduce litter; and municipal operations within the City. Educational topics may include: appropriate stormwater controls for redevelopment; landscaping BMPs; proper septic system maintenance; proper use, storage and disposal of household chemicals and fertilizers; protecting and restoring riparian vegetation; and general stormwater information. This information will reach homeowners, businesses, industries, and institutional customers. [ACT5(1)(C)(i)], [ACT5(1)(C)(iv)] & [ACT5(1)(C)(iii)]

2.4.1.2 Measurable Goal

Distribution of 500 material items each year.

2.4.1.3 Documentation to be submitted with each annual report:

Digital copies of materials distributed and an estimate of the number distributed each year.

2.4.1.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2016*
- c. Frequency of actions (if applicable): *Annual*
- d. Month/Year of each action (if applicable): *Throughout the year.*

2.4.1.5 Person (position) responsible for overall management and implementation of the BMP – [(ACT5(1)(C)(vii))]:

Public Works Director

2.4.1.6 Rationale for choosing BMP and setting measurable goal(s):

Allows the opportunity to reach a wide audience in a format in which a lot of information can be conveyed. This BMP is mandated under [ACT5(1)(C)(i)] of the Stormwater General Permit.

2.4.1.7 How you will determine the effectiveness of this BMP:

By documenting the number of material items distributed on an annual basis.



2.4.2 BMP #2: *Development and Presentation of Growth Readiness Training*

2.4.2.1 Description:

The City will develop a Growth Readiness Training Program designed to illustrate the link between local land use decisions and water quality. The information and training will include presentations on the impact of impervious surfaces on watershed functions and the benefits of good watershed management and site design.

2.4.2.2 Measurable Goal

Present one presentation annually to the Mayor and Board

2.4.2.3 Documentation to be submitted with each annual report:

Agenda and minutes from meeting. Digital copy of PowerPoint presentation, if applicable.

2.4.2.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *Annual*
- d. Month/Year of each action (if applicable): *Quarter 2*

2.4.2.5 Person (position) responsible for overall management and implementation of the BMP – [(ACT5(1)(C)(vii))]:

Public Works Director / Consultant

2.4.2.6 Rationale for choosing BMP and setting measurable goal(s):

A mayor and board of aldermen meeting allows the opportunity to educate both the public and their elected representative in an official, on-the-record manner. Additionally, this method can assist local communities in protecting their land and water resources by providing visual tools and training for wiser land use planning within a watershed context. [(ACT5(1)(C)(iii))]

2.4.2.7 How you will determine the effectiveness of this BMP:

The amount and type of questions the Mayor and Board ask during the presentation.



2.4.3 BMP #4: Stormwater Website

2.4.3.1 Description:

The City will use its website to distribute information on a variety of stormwater issues, to include pollution prevention, watershed protection, and erosion and sediment control. The stormwater section of the City's website will also contain a "hotline" e-mail link to provide a mechanism for the general public to report water quality concerns in the City.

2.4.3.2 Measurable Goal

Update website annually.

2.4.3.3 Documentation to be submitted with each annual report:

Screenshot of most recent webpage layout.

2.4.3.4 Schedule:

- a. Interim milestone dates (if applicable): NA
- b. Implementation date (if applicable): 2017
- c. Frequency of actions (if applicable): Annually
- d. Month/Year of each action (if applicable): 3rd Quarter

2.4.3.5 Person (position) responsible for overall management and implementation of the BMP – [(ACT5(1)(C)(vii)]:

Public Works Director / Consultant

2.4.3.6 Rationale for choosing BMP and setting measurable goal(s):

The internet is one of the best ways to provide the general public with information.

2.4.3.7 How you will determine the effectiveness of this BMP:

Track the number of website hits. Additionally, the City will track the number of work orders produced in response to citizen complaints.



3.0 MINIMUM CONTROL MEASURE (BMP) – PUBLIC INVOLVEMENT / PARTICIPATION [ACT5(2)(A)]

3.1 OVERVIEW

The Public Involvement Minimum Measure consists of BMPs that focus on creating opportunities for the public to be directly involved in the implementation of the City of Gautier's Stormwater Management Program. This minimum measure also creates opportunities for the public to be involved in activities that directly benefit the environment and lead to improvements in water quality.

3.2 RATIONALE STATEMENT

Each BMP within the Public Involvement Minimum Measure included in the current five year plan was selected using a process of 1) research of local, state, and federal BMP databases, 2) consideration of local practices with regard to applicability to existing water quality issues, 3) consideration of new practices with regard to economic impacts and impacts of integration into the regulated entity's operation systems, 4) consideration of the selected BMPs' applicability to regulation and general permit provisions, and 5) an analysis of the effectiveness of BMPs included within the first and second editions of the previous Five-Year Plans during previous permitting cycles.

3.3 SUMMARY

The Public Involvement minimum measure is organized to identify the following:

1. To identify how individuals, households, and other stakeholders will be notified of and provided opportunities to participate in activities related to the development and implementation of the City of Gautier's Stormwater Management Plan.
2. To provide opportunities for a variety of stakeholder groups to participate in the implementation processes and improvement of water quality.
3. To identify specific public involvement activities that have relevance within the context of implementation of the Stormwater Management Plan and that provide benefits in terms of improved water quality within local watersheds.

Targeted participants were selected based on the regulation requirements and on the stated goal of creating opportunities for hands-on involvement in the implementation of the Stormwater Management Plan and the improvement of water quality on the local level. The Public Involvement Program, combined with other BMPs, is expected to reach constituents within the MS4s permitted boundaries over the life of the permitting cycle.

Evaluations of the success of specific Public Involvement BMPs will be established through careful analysis of the measurable goals for each BMP included within the Public Involvement Minimum Measure. Each BMP will have a specific measurable goal established by discernment of attainable goals for the various BMP implementation steps and the capacity of responsible divisions within the context of financial and human resources to effectively meet stated goals.



3.4 BEST MANAGEMENT PRACTICES

3.4.1 BMP #1: *Storm Water Task Force Meetings*

3.4.1.1 Description:

The City will hold semi-annual task force meetings throughout the five-year permitting cycle. This Task Force will include representatives from the following City Departments: Community Planning and Public Works. Meetings will be held at mutually agreed upon locations, and meeting dates and times will be established throughout each program year of the permitting cycle.

3.4.1.2 Measurable Goal

Hold a minimum of two (2) meetings annually.

3.4.1.3 Documentation to be submitted with each annual report:

Agendas and sign-in sheets from meetings.

3.4.1.4 Schedule:

- a. Interim milestone dates (if applicable): NA
- b. Implementation date (if applicable): 2017
- c. Frequency of actions (if applicable): Semi-Annually
- d. Month/Year of each action (if applicable): Semi-Annually

3.4.1.5 Person (position) responsible for overall management and implementation of the BMP - [ACT5(2)(C)(vi)]:

Public Works Director / Consultant

3.4.1.6 Rationale for choosing BMP and setting measurable goal(s):

Provides an avenue for different departments to express issues affecting stormwater and ensure corrective measures are implemented.

3.4.1.7 How you will determine the effectiveness of this BMP:

Annual end of year task force survey/review.



3.4.2 BMP #2: *Participation in Annual Cleanup Events*

3.4.2.1 Description:

The City of Gautier will provide assistance, coordination and participation in at least one (1) local or regional cleanup event. Participation will be on an annual basis and schedules will be determined based on the logistics of the specific events. The most common annual cleanup event held each year is the Mississippi Coastal Clean-up. This event is held in the fall of each year and utilizes a large number of volunteers.

3.4.2.2 Measurable Goal

Organize and host at least one annual cleanup event.

3.4.2.3 Documentation to be submitted with each annual report:

Photographs and promotional flyer of the event as well as documentation of the amount of waste in pounds or tons collected during the event.

3.4.2.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2016*
- c. Frequency of actions (if applicable): *Annually*
- d. Month/Year of each action (if applicable): *Varies depending on weather, usually 3rd quarter.*

3.4.2.5 Person (position) responsible for overall management and implementation of the BMP - [ACT5(2)(C)(vi)]:

Public Works Director

3.4.2.6 Rationale for choosing BMP and setting measurable goal(s):

Provides an opportunity for the public to be directly involved in activities that benefit the environment and water quality.

3.4.2.7 How you will determine the effectiveness of this BMP:

Track the number of participants each year and by quantifying the amount of trash and waste collected each year.



3.4.3 BMP #3: *Property Clean-up*

3.4.3.1 Description:

The City will, through code enforcement, require citizens to clean-up their property should an issue arise on their property that could negatively affect water quality.

3.4.3.2 Measurable Goal

Require citizens to clean-up their property if such property does not meet City codes.

3.4.3.3 Documentation to be submitted with each annual report:

The number of properties required to clean-up based on code enforcement actions.

3.4.3.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *Annually*
- d. Month/Year of each action (if applicable): *On-going*

3.4.3.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(2)(C)(vi)]:

Public Works Director / Community Development

3.4.3.6 Rationale for choosing BMP and setting measurable goal(s):

Increases public awareness of issues that may negatively affect water quality of local streams. [ACT5(1)(C)(iii)] & [ACT5(2)(C)(iv)(d)]

3.4.3.7 How you will determine the effectiveness of this BMP:

Track the code enforcement results on each property.



4.0 MINIMUM CONTROL MEASURE (BMP) – ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) [ACT5(3)(A)]

4.1 OVERVIEW

The Illicit Discharge Detection and Elimination Minimum Measure 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 discharges pursuant to an NPDES permit (other than the NPDES permit for discharges from the MS4) and those non-stormwater discharges identified as expressly exempt from these requirements.

4.2 RATIONALE STATEMENT

Each BMP within the Illicit Discharge Detection and Elimination Minimum Measure included in the current five year plan was selected using a process of 1) research of local, state, and federal BMP databases, 2) consideration of local practices with regard to applicability to existing water quality issues, 3) consideration of new practices with regard to economic impacts and impacts of integration into the regulated entity's operation systems, 4) consideration of the selected BMP's applicability to regulation and the general permit provisions, and 5) an analysis of the effectiveness of BMPs included within the first and second editions of the previous Five-Year Plans during previous permitting cycles.

4.3 SUMMARY

The Illicit Discharge Detection and Elimination Minimum Measure is organized to identify the following:

1. Protocols for reviewing and updating ordinances relating to water quality and stormwater management as conditions warrant.
2. Processes and procedures for training employees on the detection, reporting and documenting of illicit discharges.
3. Methods, procedures and protocols for mapping the MS4 conveyance systems, major road crossings and incidents of illicit discharge and illegal dumping within the MS4.
4. Methods, procedures and protocols for conducting, reporting and documenting dry-weather screening inspections in the MS4.
5. Protocols for establishing lines of communication with other cities, counties and regional agencies and/or departments that manage information relevant to water quality management.

Evaluations of the success of specific BMPs will be established through careful analysis of the measurable goals for each BMP included within the Illicit Discharge Detection and Elimination Minimum Measure. Each BMP will have a specific measurable goal that is established by discernment of attainable goals for the various BMP implementation steps and the capacity of responsible divisions within the context of financial and human resources to effectively meet stated goals.



4.4 BEST MANAGEMENT PRACTICES

4.4.1 BMP #1: *Ordinance Review*

4.4.1.1 Description:

The City prohibits, through ordinance, non-stormwater discharges into the MS4 and implements appropriate enforcement procedures and actions as needed. The City will update its ordinances as needed.

4.4.1.2 Measurable Goal

Evaluate, and if necessary, modify existing ordinances.

4.4.1.3 Documentation to be submitted with each annual report:

If the ordinance is to be revised during the reporting period, the city will submit a copy of the proposed ordinance to MDEQ as required in the General Permit [ACT5(3)(C)]. If MDEQ approves, the city will adopt said ordinance.

4.4.1.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *Revise as needed*
- d. Month/Year of each action (if applicable): *4th Quarter*

4.4.1.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(3)(G)(v)]:

Public Works Director

4.4.1.6 Rationale for choosing BMP and setting measurable goal(s):

This BMP is mandated under [ACT5(4)(C)] of the Stormwater General Permit.

4.4.1.7 How you will determine the effectiveness of this BMP:

Effectiveness will be determined through successful enforcement actions and successful adoption of revised ordinances.



4.4.2 BMP #2: *Municipal Employee Training – Illicit Discharges*

4.4.2.1 Description:

Annual training focused on illicit discharges will be presented to relevant municipal employees. The training will focus on instructing employees on the identification of illicit discharges, methods and protocols for reporting discharges, and methods for documenting identification, reporting and remedial actions. Municipal employees to be trained will include those employees that are frequently out in the field conducting maintenance or other activities associated with their particular job function. Employees to be trained may include, but will not necessarily be limited to: the Water Department, Street Department, Ground Maintenance and Shop personnel.

4.4.2.2 Measurable Goal

Annually educate municipal employees on identifying and preventing illicit discharges within the City.

4.4.2.3 Documentation to be submitted with each annual report:

Sign-in sheets and PowerPoint presentation, if applicable.

4.4.2.4 Schedule:

- a. Interim milestone dates (if applicable): NA
- b. Implementation date (if applicable): 2017
- c. Frequency of actions (if applicable): Annually
- d. Month/Year of each action (if applicable): 4th Quarter

4.4.2.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(3)(G)(v)]:

Public Works Director / Consultant

4.4.2.6 Rationale for choosing BMP and setting measurable goal(s):

This BMP is mandated under [ACT9] of the Stormwater General Permit.

4.4.2.7 How you will determine the effectiveness of this BMP:

Effectiveness will be determined through a brief quiz immediately after the presentation.



4.4.3 BMP #3: *Outfall Mapping Program*

4.4.3.1 Description:

The City will develop an inventory and a map, showing the location of all outfalls along six (6) major streams and the names and locations of all waters of the State that receive discharges from the outfalls. The City will use appropriate measures, such as hand-held GPS units, stream walks, and/or photointerpretation to gather outfall location data along the six (6) major streams flowing through the city.

4.4.3.2 Measurable Goal

The City will maintain a map showing outfalls related to named streams and waterbodies located within the City. The City will revise and update the map as necessary.

4.4.3.3 Documentation to be submitted with each annual report:

The City will provide a map showing any outfalls added during the reporting period.

4.4.3.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *Annually update inventory and outfall map*
- d. Month/Year of each action (if applicable): *On-going*

4.4.3.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(3)(G)(v)]:

Public Works Director / Consultant

4.4.3.6 Rationale for choosing BMP and setting measurable goal(s):

This BMP is mandated under [ACT5(4)(B)] of the Stormwater General Permit.

4.4.3.7 How you will determine the effectiveness of this BMP:

Effectiveness and accuracy of outfall map will be determined through periodic visual inspections.



4.4.4 BMP #4: Dry-Weather Screening Inspections

4.4.4.1 Description:

The City will formally conduct semi-annual dry-weather screening inspections of conveyances and primary outfalls to determine the presence of potential illicit discharges. The outfalls will be given a unique identifying number in GIS [ACT5(3)(G)(4)(a)]. The inspection methodology will be primarily visual with an emphasis on identification of conditions that would indicate the presence of an illicit discharge such as oily sheen on the water, discolored water, unusual odors, stressed vegetation adjacent to conveyances and/or outfalls, and stressed aquatic life [ACT5(3)(G)(2)(a)]. Over the course of the 5-year permit cycle, ten percent (10%) of the outfalls will be selected randomly each year to be inspected. [ACT5(3)(G)(5)(a)]. Inspections will generally occur after a period of at least 72 hours with less than 0.10 inches of rain [ACT5(3)(G)(1)(a)]. Additionally, city employees will informally observe water quality conditions during their normal course of work and will report any issues to their appropriate supervisor.

4.4.4.2 Measurable Goal

The City will ensure dry-weather screening inspection occur and will document and address any illicit discharges noted during these inspections.

4.4.4.3 Documentation to be submitted with each annual report:

Inspection reports generated based on the dry weather screenings conducted will be submitted. These reports will have text summarizing the inspections, photos of outfalls inspected, and any corrective actions proposed.

4.4.4.4 Schedule:

- a. Interim milestone dates (if applicable): NA
- b. Implementation date (if applicable): 2017
- c. Frequency of actions (if applicable): Semi-Annually
- d. Month/Year of each action (if applicable): Varies depending on weather, usually 2nd and 4th quarters each year.

4.4.4.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(3)(G)(v)]:

Public Works Director / Consultant

4.4.4.6 Rationale for choosing BMP and setting measurable goal(s):

This BMP is mandated under [ACT5(4)(G)(i)] of the Stormwater General Permit.

4.4.4.7 How you will determine the effectiveness of this BMP:

Effectiveness to be determined by comparing stream outfalls screened with successful identification of illicit discharges.



5.0 MINIMUM CONTROL MEASURE (BMP) – CONSTRUCTION SITE STORMWATER RUNOFF CONTROL [ACT5(4)(A)]

5.1 OVERVIEW

The Construction Site Runoff Control Minimum Measure consists of BMPs focused on the reduction of pollutants in stormwater runoff to the MS4 originating from construction activities involving land disturbance activities greater than one acre but less than five acres. The primary pollutant of concern from construction activities is sediment generated from soil disturbance activities. BMPs selected for this minimum measure are proactive in nature and are designed to minimize occurrences of erosion and the transfer of sediments from construction areas to adjacent waterways, conveyances or outfalls.

5.2 RATIONALE STATEMENT

Each BMP within the Construction Site Runoff Minimum Measure included in the current five year plan was selected using a process of 1) research of local, state, and federal BMP databases, 2) consideration of local practices with regard to applicability to existing water quality issues, 3) consideration of new practices with regard to economic impacts and impacts of integration into the regulated entity's operation systems, 4) consideration of the selected BMP's applicability to regulation and the general permit provisions, and 5) an analysis of the effectiveness of BMPs included within the first and second editions of the previous Five-Year Plans during previous permitting cycles.

5.3 SUMMARY

The Construction Site Runoff Minimum Measure is organized to address the following:

1. To ensure regulatory mechanisms (ordinances) remain effective and relevant through periodic review and revision as necessary.
2. To ensure contractors and developers receive training on the latest policies, procedures, and techniques for the effective management of sediment and erosion control on construction sites.
3. To establish and implement effective erosion and sediment control standards for construction sites.
4. To ensure all regulated construction projects are reviewed during the pre-construction and construction permitting processes to ensure plans are reviewed within the context of providing effective and site-specific sediment and erosion control measures.
5. To establish procedures for site inspection and enforcement of control measures.
6. To establish procedures to provide appropriate education and training for applicable inspection personnel on inspection and enforcement procedures.

Evaluations of success of specific BMPs will be established through careful analysis of the measurable goals for each BMP included within the Construction Site Runoff Minimum Measure. Each BMP will have a specific measurable goal that is established by discernment of attainable goals for the various BMP implementation steps and the capacity of responsible divisions within the context of financial and human resources to effectively meet stated goals.



5.4 BEST MANAGEMENT PRACTICES

5.4.1 BMP #1: *Ordinance Review*

5.4.1.1 Description:

The City has an ordinance that requires erosion and sediment (E & S) controls, which includes sanctions to ensure compliance, to the extent allowable, under State or local law. The City will update the ordinances, where applicable, to highlight the “*Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas*” document available on MDEQ’s website. The post-construction ordinances will specifically address the following:

- Requirements for construction site operators to provide the City a copy of their Stormwater Pollution Prevention Plan (SWPPP) and proof of issuance of applicable MDEQ approvals/permits prior to the issuance of local construction approvals/permits. Examples of MDEQ approvals/permits include small construction and large construction general permit coverage [ACT5(4)(A)(ii)].
- Requirements for construction site operators to provide the regulated entity a copy of the proper permits or approvals from the Army Corps of Engineer if waters of the United States are being filled, rerouted or dammed [ACT5(4)(A)(iii)].
- Requirements for construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impacts to water quality [ACT5(4)(A)(iv)].

The City will review, consider, and discuss the feasibility of adopting ordinances to promote and encourage the implementation on non-structural BMPs, including Low Impact Development (LID) and Green Infrastructure (GI) [ACT5(4)(B)].

5.4.1.2 Measurable Goal

Enforcement of the City’s E&S control ordinance on all applicable construction activities. The City will evaluate, and if necessary, modify the existing Soil Erosion and Sediment Control Ordinance as needed.

5.4.1.3 Documentation to be submitted with each annual report:

If the ordinance is to be revised during the reporting period, the city will submit a copy of the proposed ordinance to MDEQ as required in the General Permit [ACT5(4)(A)(i)]. If MDEQ approves, the city will adopt said ordinance.



5.4.1.4 Schedule:

- a. Interim milestone dates (if applicable): [NA](#)
- b. Implementation date (if applicable): [2017](#)
- c. Frequency of actions (if applicable): [Revise as needed](#)
- d. Month/Year of each action (if applicable): [1st Quarter](#)

5.4.1.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(4)(C)(vi)]:

[Public Works Director / Consultant / Community Development](#)

5.4.1.6 Rationale for choosing BMP and setting measurable goal(s):

[This BMP is mandated under \[ACT5\(4\)\(A\)\(i\)\] of the Stormwater General Permit.](#)

5.4.1.7 How you will determine the effectiveness of this BMP:

[By monitoring construction sites for E&S control failures and evaluating the corrective response by all parties.](#)



5.4.2 BMP #2: Contractor / Developer Training

5.4.2.1 Description:

The City will provide developers and contractors seeking a permit with a CD of information on the implementation and management of construction best management practices, permitting procedures, and inspection procedures. In implementing this BMP, the City will:

- Review and revise, as necessary, the training materials included on the contractor and developer CD to ensure relevance and to take advantage of newly developed technologies and methods of managing stormwater on construction sites.
- To accomplish the goal of ensuring contractor/developer compliance, the City will include a copy of the City's Stormwater Ordinance, a copy of the stormwater requirements for both large and small construction, and related forms in the materials.

5.4.2.2 Measurable Goal

The City will issue CDs to developers and contractors who apply for a permit. The City will keep track of stop work orders due to failing E&S practices.

5.4.2.3 Documentation to be submitted with each annual report:

A copy of the CD and a signed list of developers receiving it will be submitted with the annual report.

5.4.2.4 Schedule:

- a. Interim milestone dates (if applicable): NA
- b. Implementation date (if applicable): 2016
- c. Frequency of actions (if applicable): Annually
- d. Month/Year of each action (if applicable): 4th Quarter

5.4.2.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(4)(C)(vi)]:

Public Works Director / Consultant / Community Development

5.4.2.6 Rationale for choosing BMP and setting measurable goal(s):

Educating the local developers and contractors about proper erosion and sediment control practices is essential to reduce sediment transport from construction sites. This BMP is mandated under [ACT5(4)(A)(i)].

5.4.2.7 How you will determine the effectiveness of this BMP:

By monitoring construction sites for E&S control failures and evaluating the corrective response by all parties.



5.4.3 BMP #3: *Erosion and Sediment Control Standards*

5.4.3.1 Description:

The City will coordinate with MDEQ to establish revised erosion and sediment control standards for construction site activities. During the first year of the new Five-Year Plan permit cycle, the City will update its ordinances to highlight the Erosion and Sediment Control standards based on the new “*Erosion Control, Sediment Control and Stormwater Management on Construction Sites and Urban Areas*” document available on MDEQ’s website. An online version of the manual is available at: http://deg.state.ms.us/MDEQ.nsf/page/NPS_PlanningandDesign_Manual2ndEd_Vol1?OpenDocument.

5.4.3.2 Measurable Goal

Review Erosion and Sediment Control standards and update as necessary to highlight the updated MDEQ E&S document.

5.4.3.3 Documentation to be submitted with each annual report:

The City will provide a copy of any approved standards during the reporting period.

5.4.3.4 Schedule:

- a. Interim milestone dates (if applicable): NA
- b. Implementation date (if applicable): 2017
- c. Frequency of actions (if applicable): Annually as required
- d. Month/Year of each action (if applicable): 1st Quarter

5.4.3.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(4)(C)(vi)]:

Public Works Director / Consultant / Community Development

5.4.3.6 Rationale for choosing BMP and setting measurable goal(s):

The City must align its E&S standards with that of the States to create continuity.

5.4.3.7 How you will determine the effectiveness of this BMP:

By evaluating the effectiveness of the E&S control plans and by monitoring construction sites for E&S control failures.



5.4.4 BMP #4: *Site Plan Review Processes*

5.4.4.1 Description:

The City will require all construction projects involving land disturbance activities from one to five acres to undergo a site plan review. The site plan review process will also apply to individual residential lot construction if the lot is part of a residential subdivision that will disturb 1 acre to 5 acres. The purpose of the site plan review is to allow the City's Community Development Department and Public Works Department to review proposed construction site controls and to discuss proposed controls as they relate to water quality with the developer prior to commencement of land disturbance activities.

5.4.4.2 Measurable Goal

Review all site plans to ensure compliance with the approved City ordinances.

5.4.4.3 Documentation to be submitted with each annual report:

The City will provide the number of site plans received and the number of site plans reviewed, approved, or denied during the reporting period in each annual report.

5.4.4.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *Annually*
- d. Month/Year of each action (if applicable): *Ongoing*

5.4.4.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(4)(C)(vi)]:

Public Works Director / Community Development

5.4.4.6 Rationale for choosing BMP and setting measurable goal(s):

The City must ensure that plans submitted meet the minimum requirements of the E&S control ordinance to ensure negative impacts to the environment are minimized. This BMP is mandated under [ACT5(4)(C)(i)] of the Stormwater General Permit.

5.4.4.7 How you will determine the effectiveness of this BMP:

By evaluating the effectiveness of the E&S control plans by monitoring construction sites for E&S control failures.



5.4.5 BMP #5: Construction Site Inspections

5.4.5.1 Description:

The City will conduct inspections of active construction sites in conjunction with building permit inspections in accordance with adopted policies, procedures and ordinances. Inspectors will determine the effectiveness of all BMPs incorporated into the construction site and will document and report inspection findings to the construction site operator. An inspection form for construction sites is included in **Appendix 4**. Should a City inspector observe an issue, the contractor/developer will be notified to correct the issue. The City will not pass an inspection of a site until the erosion and sediment control practices (E&S) are installed and functioning [ACT5(C)(iii)].

5.4.5.2 Measurable Goal

Implement the approved construction site inspection procedures described in the SWMP. Construction site inspection will be conducted routinely on all active construction sites.

5.4.5.3 Documentation to be submitted with each annual report:

The City will provide a list of active construction sites and any inspections conducted during the reporting period.

5.4.5.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *On-going*
- d. Month/Year of each action (if applicable): *Continuous*

5.4.5.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(4)(C)(vi)]:

Public Works Director / Community Development

5.4.5.6 Rationale for choosing BMP and setting measurable goal(s):

The City must inspect construction sites to ensure proper functionality of E&S control measures. This BMP is mandated under [ACT5(4)(C)(iii)] of the Stormwater General Permit.

5.4.5.7 How you will determine the effectiveness of this BMP:

By monitoring construction sites for E&S control failures and evaluating the corrective response by all parties.



5.4.6 BMP #6: *Inspection Staff Training*

5.4.6.1 Description:

The City will provide annual training for inspection staff on the latest policies, ordinances, and inspection procedures for effective stormwater monitoring and management on construction sites. Inspector training will also include procedures for documentation and reporting of inspection findings.

5.4.6.2 Measurable Goal

Educate municipal inspectors on identifying and preventing erosion and sediment control failures on construction sites.

5.4.6.3 Documentation to be submitted with each annual report:

Sign-in sheet and a copy of the PowerPoint presentation, if applicable.

5.4.6.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *Annually*
- d. Month/Year of each action (if applicable): *2nd Quarter*

5.4.6.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(4)(C)(vi)]:

Public Works Director / Consultant

5.4.6.6 Rationale for choosing BMP and setting measurable goal(s):

This BMP is mandated under [ACT9] of the Stormwater General Permit.

5.4.6.7 How you will determine the effectiveness of this BMP:

Effectiveness will be determined through a brief quiz immediately after the presentation.



5.4.7 BMP #7: City's Complaint Portal

5.4.7.1 Description:

The City will accept public comments via a "hotline" e-mail link on the City's website. The City will continue to accept public comments received via telephone.

5.4.7.2 Measurable Goal

Respond to all citizen complaints related to E&S control violations. In most cases, the City will respond to complaints within two (2) weeks.

5.4.7.3 Documentation to be submitted with each annual report:

A summary list of complaints received and status of these complaints will be submitted, to include complaint date, type of complaint, and complaint status (Resolved or Open). The City will also provide a copy of any relevant documentation relating to enforcement and/or compliance.

5.4.7.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *Ongoing*
- d. Month/Year of each action (if applicable): *As needed*

5.4.7.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(4)(C)(vi)]:

Public Works Director

5.4.7.6 Rationale for choosing BMP and setting measurable goal(s):

The public is often the best source of timely information on E&S control violations. Additionally, this BMP is mandated under [ACT5(4)(A)(vii)] & [ACT5(4)(C)(ii)] of the Stormwater General Permit.

5.4.7.7 How you will determine the effectiveness of this BMP:

The City will periodically review its record of complaints and evaluate its responses to those complaints to ensure they have been addressed.



6.0 MINIMUM CONTROL MEASURE (BMP) – POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT [ACT5(5)(A)]

6.1 OVERVIEW

The Post-Construction Stormwater Runoff Minimum Measure consists of BMPs that focus on the prevention or minimization of water quality impacts from new developments and redevelopments, that disturb greater than or equal to one (1) acre but less than five (5) acres, including projects less than one (1) acre that are part of a larger common plan of development, that discharge into the regulated entity's small MS4 [ACT5(5)(A)]. BMPs incorporated into this minimum measure are designed to ensure appropriate reviews are conducted and pre-construction conditions relative to affected waterways or streams are taken into consideration during the design, construction and post-construction phases.

6.2 RATIONALE STATEMENT

Each BMP within the Post-Construction Site Runoff Minimum Measure included in the current five year plan was selected using a process of 1) research of local, state, and federal BMP databases, 2) consideration of local practices with regard to applicability to existing water quality issues, 3) consideration of new practices with regard to economic impacts and impacts of integration into the regulated entity's operation systems, 4) consideration of the selected BMP's applicability to regulation and the general permit provisions, and 5) an analysis of the effectiveness of BMPs included within the first and second editions of the previous Five-Year Plans during previous permitting cycles.

6.3 SUMMARY

The Post-Construction Site Runoff Minimum Measure is organized to identify the following:

1. To ensure that regulatory mechanisms (ordinances) specific to post-construction conditions remain effective and relevant through periodic review and revision as necessary.
2. To establish a working database and GIS layer of all post-construction stormwater BMPs located within the MS4.
3. To provide training opportunities for Code Officials on the proper post-construction BMP inspection procedures.
4. To establish lines of communication with private entities owning and operating post construction BMPs to ensure long-term maintenance and operation of the BMPs.
5. To establish schedules and procedures for annual inspections of post-construction BMPs.

Evaluations of success of specific BMPs will be established through careful analysis of the measurable goals for each BMP included within the Post-Construction Runoff Minimum Measure. Each BMP will have a specific measurable goal that is established by discernment of attainable goals for the various BMP implementation steps and the capacity of responsible divisions within the context of financial and human resources to effectively meet stated goals.



The City of Gautier's Public Works Department will be responsible for the overall management and implementation for this BMP.

6.4 BEST MANAGEMENT PRACTICES

6.4.1 BMP #1: *Post-Construction Ordinance Review*

6.4.1.1 Description:

The City will conduct a review of relevant ordinances controlling and regulating the design, placement, and long-term maintenance of post-construction best management practices. The City will make it clear within the ordinances who is to have responsibility over the post-construction BMP.

6.4.1.2 Measurable Goal

The City will periodically 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.

6.4.1.3 Documentation to be submitted with each annual report:

If the ordinance is to be revised during the reporting period, the city will submit a copy of the proposed ordinance to MDEQ as required in the General Permit [ACT5(5)(C)]. If MDEQ approves, the city will adopt said ordinance.

6.4.1.4 Schedule:

- a. Interim milestone dates (if applicable): NA
- b. Implementation date (if applicable): 2017
- c. Frequency of actions (if applicable): *Revise as needed*
- d. Month/Year of each action (if applicable): 2nd Quarter

6.4.1.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(5)(H)(vii)]:

Public Works Director / Consultant / Community Development

6.4.1.6 Rationale for choosing BMP and setting measurable goal(s):

This BMP is mandated under [ACT5(5)(A)] of the Stormwater Permit.

6.4.1.7 How you will determine the effectiveness of this BMP:

By monitoring the success of post-construction best management practices.



6.4.2 BMP #2: *Post-Construction BMP Inventory*

6.4.2.1 Description:

The City will update, as needed, an inventory of all publicly-owned post-construction stormwater management structures (detention/retention ponds, water quality vaults, infiltration structures, etc.) as well as those privately owned. The inventory will include information on the number and type of structures, and ownership (i.e. publicly vs privately owned).

6.4.2.2 Measurable Goal

An inventory of all post-construction stormwater management structures, both public and private, within the jurisdiction. The City will update the inventory as new structures are added or existing structures are identified.

6.4.2.3 Documentation to be submitted with each annual report:

Updated inventory will be submitted in each annual report.

6.4.2.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *Annually*
- d. Month/Year of each action (if applicable): *4th Quarter*

6.4.2.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(5)(H)(vii)]:

Public Works Director / Community Development

6.4.2.6 Rationale for choosing BMP and setting measurable goal(s):

A BMP inventory will enable the City to more easily track where post-construction BMPs are located and if they are being maintained properly within the city.

6.4.2.7 How you will determine the effectiveness of this BMP:

By monitoring the success of post-construction best management practices installed within the city.



6.4.3 BMP #3: Code Official Training

6.4.3.1 Description:

The City will conduct training for Code Officials on proper post-construction BMP inspection procedures. The training will include inspection, documentation and reporting procedures of inspection findings.

6.4.3.2 Measurable Goal

Educate Code Officials on proper post-construction inspection procedures and reporting.

6.4.3.3 Documentation to be submitted with each annual report:

Sign-in sheet and a copy of the PowerPoint presentation, if applicable.

6.4.3.4 Schedule:

- a. Interim milestone dates (if applicable): NA
- b. Implementation date (if applicable): 2017
- c. Frequency of actions (if applicable): Annually
- d. Month/Year of each action (if applicable): 2nd Quarter

6.4.3.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(5)(H)(vii)]:

Public Works Director / Consultant / Community Development

6.4.3.6 Rationale for choosing BMP and setting measurable goal(s):

This BMP is mandated under [ACT9] of the Stormwater General Permit.

6.4.3.7 How you will determine the effectiveness of this BMP:

Effectiveness will be determined through a brief quiz immediately after the presentation.



6.4.4 BMP #4: *Post-Construction Correspondence*

6.4.4.1 Description:

The City will prepare and send correspondence to all post-construction BMP owners and operators providing information on long-term maintenance and their responsibilities as owners and/or operators under the City's ordinance [ACT5(5)(F)].

6.4.4.2 Measurable Goal

A copy of the document will be sent to owners/operators. Additionally, a record of who the document was sent to will be kept on file.

6.4.4.3 Documentation to be submitted with each annual report:

A copy of the post-construction document sent to owners/operators.

6.4.4.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *Annually*
- d. Month/Year of each action (if applicable): *4th Quarter / Annually*

6.4.4.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(5)(H)(vii)]:

Public Works Director

6.4.4.6 Rationale for choosing BMP and setting measurable goal(s):

This measure will provide the City with a mechanism to communicate local regulations and practices related to development and maintenance of post-construction BMP's to the respective responsible party. It will also ensure that information is communicated on a consistent basis. This BMP is mandated under [ACT5(5)(F)] of the Stormwater General Permit.

6.4.4.7 How you will determine the effectiveness of this BMP:

By observing and tracking the functionality and level of maintenance at post-construction sites within the City.



6.4.5 BMP #5: *Post-Construction Controls Maintenance Agreements*

6.4.5.1 Description:

The City will develop a long-term maintenance agreement document for execution with all new developments requiring post-construction BMPs. Documents are to be executed upon or prior to issuance of a certificate of occupancy or acceptance of dedicated improvements in the case of residential or mixed-use developments. The long-term maintenance agreement document will be reviewed and updated as necessary, on an annual basis.

6.4.5.2 Measurable Goal

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. Total number of maintenance agreements sent out will be provided in each annual report.

6.4.5.3 Documentation to be submitted with each annual report:

A copy of the Post-Construction document sent to owners/operators.

6.4.5.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *Annually*
- d. Month/Year of each action (if applicable): *On-going*

6.4.5.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(5)(H)(vii)]:

Public Works Director / Community Development

6.4.5.6 Rationale for choosing BMP and setting measurable goal(s):

This measure establishes and clarifies responsibilities for long-term maintenance of post-construction BMPs to ensure that all parties are aware of their maintenance responsibility. This measure also eliminates the potential for conflict related to BMP maintenance by clearly establishing areas of responsibility. Additionally, this BMP is mandated under [ACT5(5)(F)] of the Stormwater Permit.

6.4.5.7 How you will determine the effectiveness of this BMP:

By observing and tracking the functionality and effectiveness of post-construction controls.



6.4.6 BMP #6: *Post-Construction Site Inspections*

6.4.6.1 Description:

The City will conduct annual inspections of all city-owned post-construction sites and prepare an inspection report to be placed on file in the appropriate municipal office. This practice will allow for effective communication of potential problems or issues associated with post-construction BMPs between the City and those individuals or entities with maintenance responsibility. The City will require, through ordinance, that post-construction controls on private property shall be inspected annually by the owner.

6.4.6.2 Measurable Goal

The City will provide documentation of the inspections conducted on municipal owned post-construction sites during the reporting period in each annual report. The reports will include any compliance and/or enforcement activities resulting from inspections.

6.4.6.3 Documentation to be submitted with each annual report:

Documentation of the inspections conducted during the reporting period will be provided in each annual report.

6.4.6.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *Annually*
- d. Month/Year of each action (if applicable): *4th Quarter / Annually*

6.4.6.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(5)(H)(vii)]:

Public Works Director / Community Development

6.4.6.6 Rationale for choosing BMP and setting measurable goal(s):

The City must inspect post-construction BMPs to ensure controls maintain maximum design storage. This BMP is mandated under [ACT5(5)(H)(v)(c)] of the Stormwater Permit.

6.4.6.7 How you will determine the effectiveness of this BMP:

By monitoring post-construction BMPs failures and evaluating the corrective response by all parties.



6.4.7 BMP #7: *Green Infrastructure / Low Impact Development Structures*

6.4.7.1 Description:

The City will develop an inventory of water quality-related GI/LID structures installed, both public and private, located within the permitted area and at a minimum, constructed after the effective date of the newly issued General Storm Water Permit, including the total number of each type of structure (e.g. bioswales, pervious pavement, rain gardens, cisterns, and green roofs) [ACT5(5)(H)(iii)].

6.4.7.2 Measurable Goal

An accurate and up to date inventory of all GI/LID structures will be maintained.

6.4.7.3 Documentation to be submitted with each annual report:

An updated GI/LID inventory will be submitted with each annual report.

6.4.7.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *On-going*
- d. Month/Year of each action (if applicable): *Continuous*

6.4.7.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(5)(H)(vii)]:

Public Works Director / Community Development

6.4.7.6 Rationale for choosing BMP and setting measurable goal(s):

To track any GI/LID practices constructed within the City and to gauge the effectiveness of those practices in relation to improving water quality and/or reducing stormwater runoff.

6.4.7.7 How you will determine the effectiveness of this BMP:

By observing and tracking the continued functional life of GI/LID stormwater management structures within the City.



6.4.8 BMP #8: Hydrology Standards

6.4.8.1 Description:

The City will implement and enforce permanent stormwater controls that are designed to reduce runoff and reduce pollutants. The City will require, through ordinances, that stormwater discharges from new development and redevelopment sites be managed such that post-development hydrology does not exceed the pre-development hydrology at the site [ACT5(5)(D)].

6.4.8.2 Measurable Goal

The City will require that all potential developers submit hydrology calculations, using an approved hydrology calculation method, with their designs.

6.4.8.3 Documentation to be submitted with each annual report:

A list of developments approved in the applicable plan year that submitted hydrology calculations with their design will be submitted in the annual report.

6.4.8.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *Ongoing*
- d. Month/Year of each action (if applicable): *Continuous*

6.4.8.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(5)(H)(vii)]:

Public Works Director / Community Development

6.4.8.6 Rationale for choosing BMP and setting measurable goal(s):

This BMP is mandated under [ACT5(5)(D)] of the Stormwater Permit.

6.4.8.7 How you will determine the effectiveness of this BMP:

By reviewing the hydrology calculations submitted by developers and observing post-construction BMPs for any excessive flows.



6.4.9 BMP #9: Design Standards

6.4.9.1 Description:

The City will develop site design standards for all new and redevelopment projects and require, in combination or alone, management measures that are designed built and maintained to infiltrate, evapotranspire, harvest and/or use, at a minimum the first inch or every rainfall preceded by 72 hours of no measurable precipitation [ACT5(5)(E)]. Appropriate BMPs will be outlined in the site design standard manual [ACT5(5)(G)].

6.4.9.2 Measurable Goal

The City will require that all potential developers submit designs that conform to the City's Site Design Standards once the Design Standards are established unless the developer/contractor has a letter from an engineer stating conformance would be impractical based on soil characteristics of the site.

6.4.9.3 Documentation to be submitted with each annual report:

A list of developments approved in the applicable plan year that submitted designs meeting this requirement.

6.4.9.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *Ongoing*
- d. Month/Year of each action (if applicable): *Continuous*

6.4.9.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(5)(H)(vii)]:

Public Works Director / Community Development

6.4.9.6 Rationale for choosing BMP and setting measurable goal(s):

This BMP is mandated under [ACT5(5)(E)] of the Stormwater Permit.

6.4.9.7 How you will determine the effectiveness of this BMP:

By reviewing the construction drawings submitted by developers and observing post-construction sites for any excessive flows.



7.0 MINIMUM CONTROL MEASURE (BMP) – POLLUTION PREVENTION / GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS – [ACT5(6)(A)]

7.1 OVERVIEW

The Pollution Prevention/Good Housekeeping for Municipal Operations minimum measure consists of BMPs that focus on the reduction of pollutants in stormwater runoff originating from city operations and maintenance activities. The operations and maintenance activities include transportation system maintenance, vehicle and equipment maintenance, and materials handling and storage. BMPs selected for this minimum measure are intended to be proactive in nature and focus primarily on prevention of circumstances with the potential to contribute to polluted runoff.

7.2 RATIONALE STATEMENT

Each BMP within the Pollution Prevention/Good Housekeeping minimum measure included in the current five year plan was selected using a process of 1) research of local, state, and federal BMP databases, 2) consideration of local practices with regard to applicability to existing water quality issues, 3) consideration of new practices with regard to economic impacts and impacts of integration into the regulated entity's operation systems, 4) consideration of the selected BMP's applicability to regulation and the general permit provisions, and 5) an analysis of the effectiveness of BMPs included within the first and second editions of the previous Five-Year Plans during previous permitting cycles.

7.3 SUMMARY

The Pollution Prevention/Good Housekeeping minimum measure is organized to identify the following:

1. Opportunities for development of spill prevention and response plans for each municipal facility.
2. Provisions for conducting training for municipal employees on SWPPP implementation and spill prevention and response procedures.
3. Procedures for conducting routine maintenance of facilities to minimize potential adverse impacts to water quality.
4. Procedures for effective interdepartmental communication on pollution prevention policies, methods and procedures.
5. Procedures for bi-annual inspection of all SWPPP facilities and MS4 outfalls and conveyance systems.

Evaluations of success of specific BMPs will be established through careful analysis of the measurable goals for each BMP included within the Pollution Prevention / Good Housekeeping Minimum Measure. Each BMP will have a specific measurable goal that is established by discernment of attainable goals for the various BMP implementation steps and the capacity of responsible divisions within the context of financial and human resources to effectively meet stated goals.



7.4 BEST MANAGEMENT PRACTICES

7.4.1 BMP #1: *Development of Spill Prevention and Response Plans*

7.4.1.1 Description:

The City will develop spill prevention and response plans for each facility having potential to contribute to water quality impairment. Plans will include provisions for placement of spill response kits at all of the municipal SWPPP facilities. [ACT5(6)(D)(i)].

7.4.1.2 Measurable Goal:

The City will prepare spill prevention and response plans for all facilities meeting the requirement for an SPCC and make sure the contents of the plan are followed by municipal employees.

7.4.1.3 Documentation to be submitted with each annual report:

The City will provide documentation that a Spill Prevention and Response Plan has been prepared for each facility.

7.4.1.4 Schedule:

- a. Interim milestone dates (if applicable): NA
- b. Implementation date (if applicable): 2017
- c. Frequency of actions (if applicable): Annually
- d. Month/Year of each action (if applicable): 2nd Quarter

7.4.1.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(6)(D)(v)]:

Public Works Director

7.4.1.6 Rationale for choosing BMP and setting measurable goal(s):

Spills and leaks can be minimized and corrected if a plan is in place to handle these issues.

7.4.1.7 How you will determine the effectiveness of this BMP:

Effectiveness to be evaluated based on reported incidents of spills or leaks at municipal facilities and the frequency of recurring incidents.



7.4.2 BMP #2: *Pollution Prevention Training for Municipal Employees*

7.4.2.1 Description:

The City will provide pollution prevention training to employees annually by using either existing training materials or new material. This training material may cover, but is not limited to, such topics as: proper reporting, proper use of spill kits, proper handling of potential pollutants, proper storage, etc. [ACT5(6)(D)(ii)]. The illicit discharge and pollution prevention/good housekeeping training will be conducted during one joint training session [ACT5(6)(D)(ii)].

7.4.2.2 Measurable Goal – [ACT5(6)(D)(iv)]:

Implement the employee training program specified in the SWMP.

7.4.2.3 Documentation to be submitted with each annual report:

The City will provide documentation of the educational activities conducted during the reporting period in each annual report, to include subject matter, sign-in rosters and/or photos.

7.4.2.4 Schedule:

- a. Interim milestone dates (if applicable): NA
- b. Implementation date (if applicable): 2017
- c. Frequency of actions (if applicable): Annually
- d. Month/Year of each action (if applicable): 4th Quarter

7.4.2.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(6)(D)(v)]:

Public Works Director / Consultant

7.4.2.6 Rationale for choosing BMP and setting measurable goal(s):

This BMP is mandated under [ACT5(6)(D)(ii)] and [ACT9] of the Stormwater Permit. Reduces likelihood of spills or releases during storm events and improves response time and effectiveness. This practice also ensures that municipal facilities are in compliance with Pollution Prevention/Good Housekeeping provisions of the stormwater management plan.

7.4.2.7 How you will determine the effectiveness of this BMP:

Effectiveness to be evaluated based on reported incidents of employees engaged in activities that pose a high risk of exposing contaminants to stormwater runoff.



7.4.3 BMP #3: Routine Maintenance

7.4.3.1 Description:

The City will conduct routine maintenance activities to include, but not limited to: street sweeping, culvert and catch basin cleaning, and maintenance and cleanout of vegetative swales where applicable. Maintenance activities will also include routine maintenance of facilities to include an annual review of materials storage and handling practices, waste disposal procedures, and vehicle and equipment maintenance procedures.

7.4.3.2 Measurable Goal – [ACT5(6)(D)(iv)]:

The city will conduct routine maintenance and housekeeping of public assets on a regular basis to ensure that these assets do not contribute to stormwater impairment. Routine maintenance and good housekeeping also ensures the safety of public employees and the general public.

7.4.3.3 Documentation to be submitted with each annual report:

A summary of all maintenance activities, reactive and proactive, on the City's MS4 structures will be submitted.

7.4.3.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *Ongoing*
- d. Month/Year of each action (if applicable): *As needed*

7.4.3.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(6)(D)(v)]:

Public Works Director

7.4.3.6 Rationale for choosing BMP and setting measurable goal(s):

This BMP is mandated under [ACT5(6)(D)(iii)(a)] & [ACT5(6)(D)(iii)(b)] of the Stormwater Permit.

7.4.3.7 How you will determine the effectiveness of this BMP:

By observing and tracking the continued functional life of MS4 structures within the City. Additionally, qualitative evaluation of floatables encountered during routine maintenance activities.



7.4.4 BMP #4: *Waste Disposal*

7.4.4.1 Description:

The City will establish proper disposal procedures for the removal of waste from the MS4. The City will focus on removing dredge spoil, accumulated sediments, floatables, and other debris. The waste will be sent to the local landfill.

7.4.4.2 Measurable Goal:

To track disposal of waste collected from the MS4 during the applicable plan year.

7.4.4.3 Documentation to be submitted with each annual report:

The City will provide documentation of activities performed during the reporting period in each annual report, to include manifests, landfill tickets, and other documentation that records the final disposition of waste removed from the MS4.

7.4.4.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *As Needed*
- d. Month/Year of each action (if applicable): *Ongoing*

7.4.4.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(6)(D)(v)]:

Public Works Director

7.4.4.6 Rationale for choosing BMP and setting measurable goal(s):

This BMP is mandated under [ACT5(6)(D)(iii)(b)] and [ACT5(6)(D)(iii)(c)] of the Stormwater Permit.

7.4.4.7 How you will determine the effectiveness of this BMP:

At the end of each year, the City will be able to account for waste material removed from the MS4.



7.4.5 BMP #5: *New Flood Management Projects*

7.4.5.1 Description:

The City will evaluate and assess proposed flood management projects for water quality impacts during the design phase. Each project will be evaluated to ensure minimal impacts to nearby streams is achieved.

7.4.5.2 Measurable Goal:

The City will ensure that all proposed flood management projects are assessed for water quality impacts during the design phase.

7.4.5.3 Documentation to be submitted with each annual report:

Provide the number of plans reviewed where flood management projects were assessed for water quality impacts during the reporting period in each annual report.

7.4.5.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *As Needed*
- d. Month/Year of each action (if applicable): *Ongoing*

7.4.5.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(6)(D)(v)]:

Public Works Director / Community Development

7.4.5.6 Rationale for choosing BMP and setting measurable goal(s):

This BMP is mandated under [ACT5(6)(D)(iii)(d)] of the Stormwater Permit.

7.4.5.7 How you will determine the effectiveness of this BMP:

The City will review the initial designs, construction documents and then inspect new flood management projects installed to ensure water quality is not being impacted or measures are being taken to significantly reduce water quality impacts.



7.4.6 BMP #6: Existing Flood Management Projects

7.4.6.1 Description:

The City will maintain an assessment program of existing publicly-owned flood management projects. The city will review existing flood management projects to determine if additional water quality protection devices or practices are feasible.

7.4.6.2 Measurable Goal – [ACT5(6)(D)(iv)]:

The City will conduct an assessment of 100% of existing publicly-owned flood management projects for potential retrofitting to address water quality impacts in accordance with the procedures in the SWMP prior to the permit period.

7.4.6.3 Documentation to be submitted with each annual report:

Provide information on any assessment activities conducted during the reporting period in each annual report.

7.4.6.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *As Needed*
- d. Month/Year of each action (if applicable): *Ongoing*

7.4.6.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(6)(D)(v)]:

Public Works Director / Community Development

7.4.6.6 Rationale for choosing BMP and setting measurable goal(s):

This BMP is mandated under [ACT5(6)(D)(iii)(d)] of the Stormwater Permit.

7.4.6.7 How you will determine the effectiveness of this BMP:

Effectiveness to be determined by the number of feasible retrofits identified to improve water quality through this process.



7.4.7 BMP #7: Municipal Projects

7.4.7.1 Description:

The City will evaluate all municipal facilities that have the potential for risk of exposing pollutants to stormwater. The City will update the inventory of municipal facilities as new structures are added. An inventory of municipal facilities with the potential to cause pollution is included in **Appendix 9**.

7.4.7.2 Measurable Goal – [ACT5(6)(D)(iv)]:

Conduct inspections on 100% of the municipal facilities each year during the 5-year permit term.

7.4.7.3 Documentation to be submitted with each annual report:

The City will provide documentation of the inspections as well as an updated inventory of municipal facilities.

7.4.7.4 Schedule:

- a. Interim milestone dates (if applicable): *NA*
- b. Implementation date (if applicable): *2017*
- c. Frequency of actions (if applicable): *Annually*
- d. Month/Year of each action (if applicable): *Ongoing*

7.4.7.5 Person (position) responsible for overall management and implementation of the BMP – [ACT5(6)(D)(v)]:

Public Works Director

7.4.7.6 Rationale for choosing BMP and setting measurable goal(s):

This BMP is mandated under [ACT5(6)(D)(i)] of the Stormwater Permit.

7.4.7.7 How you will determine the effectiveness of this BMP:

The city will determine the effectiveness of this BMP by tracking the amount of leaks/spills occurring at municipal facilities. The number of leaks/spills should go down each year.



APPENDICES



Appendix 1
Implementation Schedule



Section Reference	Activity (BMP Description)	Year 1				Year 2				Year 3				Year 4				Year 5			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
2.4	Public Education and Outreach																				
2.4.1	Materials for Direct Distribution			X				X				X				X				X	
2.4.2	Growth Readiness Training		X				X				X				X				X		
2.4.3	Stormwater Website			X				X				X				X					X
3.4	Public Involvement																				
3.4.1	Task Force Meetings		X		X		X		X		X		X		X		X		X		X
3.4.2	Participation in Annual Cleanup Events			X			X				X				X				X		
3.4.3	Property Cleanup		X				X				X				X				X		
4.4	Illicit Discharge Detection and Elimination																				
4.4.1	Ordinance Review				X				X				X				X				X
4.4.2	Municipal Employee Training - Illicit Discharge				X				X				X				X				X
4.4.3	Outfall Mapping Program	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4.4.4	Dry-Weather Screening Inspections		X		X		X		X		X		X		X		X		X		X
5.4	Construction Site Stormwater Controls																				
5.4.1	Ordinance Review	X				X				X				X				X			
5.4.2	Contractor / Developer Training				X				X				X				X				X
5.4.3	Erosion and Sediment Control Standards	X				X				X				X				X			
5.4.4	Site Plan Review Processes	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5.4.5	Construction Site Inspections	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5.4.6	Inspection Staff Training		X				X				X				X				X		
5.4.7	City Complaint Portal	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Section Reference	Activity (BMP Description)	Year 1				Year 2				Year 3				Year 4				Year 5			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
6.4	Post-Construction Stormwater Controls																				
6.4.1	Ordinance Review		X				X				X				X				X		
6.4.2	Post-Construction BMP Inventory				X				X				X				X				X
6.4.3	Code Official Training		X				X				X				X				X		
6.4.4	Post-Construction Correspondence			X				X				X				X				X	
6.4.5	Post-Construction Maintenance Agreements	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6.4.6	Post-Construction Site Inspections				X				X				X				X				X
6.4.7	Green Infrastructure / Low Impact Development				X				X				X				X				X
6.4.8	Hydrology Standards	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6.4.9	Design Standards	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.4	Pollution Prevention / Good Housekeeping																				
7.4.1	Spill Prevention and Response Plans		X				X				X				X				X		
7.4.2	SWPPP Training for Municipal Employees				X				X				X				X				X
7.4.3	Routine Maintenance	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.4.4	Waste Disposal	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.4.5	New Flood Management Projects	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.4.6	Existing Flood Management Projects	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7.4.7	Municipal Projects	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X



Appendix 2

Facility Illicit Discharge Inspection Reporting Form



Facility Illicit Discharge Inspection Reporting Form

Date: _____ Inspector: _____

Site Location and Description: _____

Is this a routine inspection? **Yes** **No** Date of last inspection: _____

General Questions:	Yes	No	N/A
Is this an inspection of City stormwater conveyance system?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is this an inspection of a City facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is there a SWPPP on site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Is the SW Manager on site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are there records and internal reports kept on site?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Are there spill prevention and response procedures in place?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Employee Training Questions:	Comments	
Is there a training program provided for employees (Yes/No)?		
How often (annually , quarterly, monthly)?		
Date of last training workshop?	/	/
Date of next training workshop?	/	/
How often is an inspection conducted (Monthly)?		

Weather Questions:	Comments	
What are the Weather Conditions?		
Last Rain Event:	/	/
Amount of Rain:		
If wet weather, is stormwater runoff leaving site?		
Is the runoff discolored, odiferous, or oily?		



What could be the source of the discoloration, odor or sheen?	
If dry weather, is non-stormwater discharge evident?	
Is the runoff discolored, odiferous, or oily?	
If yes, what is the source?	

Site Specific Information Questions	Comments	N/A
Site Description:		<input type="checkbox"/>
Facility:		<input type="checkbox"/>
Roadway:		<input type="checkbox"/>
Ditch:		<input type="checkbox"/>
Culvert:		<input type="checkbox"/>
Catch Basin:		<input type="checkbox"/>
Storm Sewers:		<input type="checkbox"/>
General Condition of Site (<i>Poor, Fair, Good, Excellent</i>) and Describe.		<input type="checkbox"/>
Describe the type of outfall (pipe, natural discharge point, foundation drain, etc).		<input type="checkbox"/>
What condition is the outfall pipe in?		<input type="checkbox"/>
Is an Observable Non-stormwater Discharge Noted?		<input type="checkbox"/>



Describe Non Stormwater Discharges	Description	Yes	No	NA
Odor		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Color		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sheen		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stressed Flora		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stressed Fauna		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Visible Discharge		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Source Discharge Questions:	Comments
Are there reasons for suspicions of source (clues: discolored water, fungus, oily, motor fluids, grass clippings and leaf litter, animal waste, septic tank, sewer lines failing, exposed fill nearby, past landfill, pump site, industrial source nearby, black water source, gray water source, etc.)?	
Describe the Location of Discharge and Depict on Map (see map <i>below</i>).	
Describe the Source of Discharge	



Describe the Corrective Actions Recommended:	
Other Observations or Comments:	

Reviewed By: _____ Reported To: _____

Sketch/Map



Appendix 3

Field Reporting Form for Illicit Discharges



Field Illicit Discharge Reporting Form

Date: _____ / _____ / _____ Inspector: _____

What prompted the inspection (*Observation, Random inspection, Complaint*)?

Site Specific Questions:	Comments	NA
Site Description. Also, Locate Site on Map and Attach:		<input type="checkbox"/>
Description of the Non-Stormwater Discharge:		<input type="checkbox"/>
Owner of Site:		<input type="checkbox"/>
Name:		<input type="checkbox"/>
Address:		<input type="checkbox"/>
Phone number:		<input type="checkbox"/>
E-mail:		<input type="checkbox"/>
General Conditions of Site:		<input type="checkbox"/>
Problems Noted and Corrective Actions Recommended:		<input type="checkbox"/>



Was the owner notified of corrective actions needed? How?		<input type="checkbox"/>
Other Observations or Comments:		<input type="checkbox"/>
Corrective Action Taken:		<input type="checkbox"/>
Date of Corrective Action Taken:	/ /	<input type="checkbox"/>

Reviewed By: _____ Reported To: _____

Sketch/Map



Appendix 4
Construction Site Inspection Checklist



CONSTRUCTION INSPECTION FORM

INSPECTION RECORD

Task:			
Inspection:			
Due:			
Property:			
Contact:			Phone
Subdivision:			Lot:
Permit #:	Incident #:	Task #:	

Notes:

Inspection Passed Failed

Violations:

Does a Reinspection Fee need to be added to this Project? Yes No

Completed by: _____ **Date:** _____

Entered in Building Projects: Erosion Control: Pass Fail /A



Appendix 5
Glossary of Terms

**303(d) Waterbody:**

A list of lakes, rivers, and streams that have been designated as impaired or threatened by a pollutant for which one or more TMDLs are needed or planned. Impairment means that the water body is not meeting State water quality standards.

319:

The section of the Federal Clean Water Act that deals with nonpoint source pollution.

Basin:

Any area draining to a single point. Also referred to as a watershed.

Best Management Practices “BMPs”:

Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of State. BMPs also include treatment requirements, operating procedures, and practices to control runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Catch Basin:

A curbside opening that collects rainwater from streets and serves as an entry point to the storm drain system.

Conveyance:

The process of moving water from one place to another. As a Conveyance System the term refers to that collection of culverts, ditches, inlets, streams, creeks, and rivers that convey stormwater through a basin or watershed.

Culvert:

A pipe or concrete box structure which drains open channels, swales or ditches under a roadway or embankment typically with no catch basins, manholes, or inlets along its length.

Direct Discharge:

Undetained discharge from a proposed project to a major receiving water.

Drainage Facility:

A constructed or engineered feature that collects, conveys, stores, or treats surface and stormwater runoff. Drainage facilities shall include but not be limited to all constructed or engineered streams, pipelines, channels, ditches, gutters, lakes, wetlands, closed depressions, flow control, or water quality treatment facilities, erosion and sediment control facilities, and other drainage structures and appurtenances that provide for drainage.

Erosion:

Land or soil that is diminished or worn away due to wind or water. Often the eroded debris (silt or sediment) becomes a pollutant via stormwater runoff. Erosion occurs naturally but can be intensified by land clearing activities such as farming, development, road building, and timber harvesting.

**General Permit:**

A permit issued under the NPDES program to cover a certain class or category of stormwater discharge. These permits reduce the administrative burden of permitting individual stormwater discharges.

Household Hazardous Waste:

Common product that people use in and around their homes including paint, paint thinner, herbicides, and pesticides. Due to their chemical nature, household hazardous wastes can be detrimental to the environment and water quality if not properly disposed of.

Illicit Connection:

Any man-made conveyance connecting an illicit discharge directly to a municipal separate storm sewer.

Illicit Discharge:

Any discharge to a municipal separate storm sewer that is not composed entirely of stormwater except discharges pursuant to a NPDES permit (other than the NPDES permit for discharges from the municipal separate storm sewer) and those non-stormwater discharges identified in Part I.B.3. of the State General Permit.

Impervious Surface:

A hard surface area which either prevents or retards the entry of water into the soil mantle as under natural conditions prior to development; and/or a hard surface area which causes water to run off the surface in greater quantities or at an increased rate of flow from the flow present under natural conditions prior to development.

Common impervious surfaces include, but are not limited to, rooftops, walkways, patios, driveways, parking lots, concrete or asphalt paving, gravel roads, compacted earthen materials, and oiled, macadam, or other surfaces which similarly impede the natural infiltration of surface and stormwater runoff. Open, uncovered flow control or water quality treatment facilities shall not be considered impervious surfaces for determinations of thresholds.

Major Receiving Water(s):

Those waters of the State that are named on a United States Geological Survey 7.5 Min. Quadrangle Map.

Maximum Extent Practicable “MEP”:

The statutory standard that establishes the level of pollutant reductions that operators of regulated MS4s must achieve. The Clean Water Act requires that NPDES permits for discharges from MS4s “shall require controls to reduce the discharge of pollutants to the maximum extent practicable, including management practices, control techniques and system, design and engineering methods.” Compliance with the conditions of the general permit and the series of steps associated with identification and implementation of the minimum control measures will satisfy the MEP standard.

Measurable Goals:

A municipality’s stormwater program goals, which are intended to gauge permit compliance and program effectiveness.

**Municipality:**

A County, town, county, district, association, or other public body created by or under State law and having jurisdiction over disposal of sewage, industrial wastes, or other wastes.

MS4

An acronym for "Municipal Separate Storm Sewer System" and is used to refer to either a Large, Medium (e.g. "the Ocean Springs MS4"), or Small Municipal Separate Storm Sewer System. The term is used to refer to either the system operated by a single entity or a group of systems within an area that are operated by multiple entities.

Municipal Separate Storm Sewer:

A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains): (i) Owned or operated by a State, County, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to waters of the United States; (ii) Designed or used for collecting or conveying storm water; (iii) Which is not a combined sewer; and (iv) Which is not part of a Publicly Owned Treatment Works (POTW).

National Pollutant Discharge Elimination System "NPDES":

Refers to Section 402 of the federal Clean Water Act.

NOI:

An acronym for (Notice of Intent) to be covered by this permit and is the mechanism used to "register" for coverage under a general permit.

Non-Point Source (NPS) Pollutants:

Pollutants from many diffuse sources. NPS pollution is caused by rainfall moving over and through the ground. As the runoff moves, it picks up and carries away natural and manmade pollutants, eventually depositing them into lakes, rivers, wetlands, coastal waters, and even underground sources of drinking water.

Outfall:

The location at which a drainage conveyance, which may be a pipe, box or open ditch, discharges, or flows into, a "Major Receiving Water" within the boundary of any MDOT right-of-way.

Phase II:

The second stage of the State and Federal stormwater permit regulations.

Regulated Entity:

A small MS4 within the State of Mississippi and located fully or partially within an urbanized area as determined by the latest Decennial Census pursuant to 40 CFR '122.32, or designated by MDEQ pursuant to 40 CFR 123.35.

**Sediment:**

Soil, sand, and other aggregate minerals washed from land into water, usually after a rain event. Sediment can destroy fish nesting areas, clog animal habitats, and cloud waters so that sunlight does not reach aquatic plants.

Sheet Flow:

The portion of precipitation that moves initially as overland flow in very shallow depths before eventually reaching a stream channel.

Site Plan:

A graphical representation of a layout of buildings and facilities on a parcel of land.

Small Municipal Separate Storm Sewer System:

All separate storm sewers that are owned or operated by the United States, a State, County, town, borough, county, parish, district, association, or other public body (created by or pursuant to State law) having jurisdiction over disposal of sewage, industrial wastes, storm water, or other wastes, including special districts under State law such as a sewer district, flood control district or drainage district, or similar entity, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to waters of the United States, but is not defined as “large” or “medium” municipal separate storm sewer system (those municipalities with a population of 100,000 or more) . This term includes systems similar to separate storm sewer systems in municipalities, such as systems at military bases, large hospital or prison complexes, and highways and other thoroughfares. The term does not include separate storm sewers in very discrete areas, such as individual buildings.

Stormwater:

Rainfall runoff, snowmelt runoff, and surface runoff.

Stormwater Management Program “SWMP”:

A comprehensive program to manage the quality of stormwater discharged from the municipal separate storm sewer system.

Stormwater Pollution:

Water from rain, irrigation, garden hoses, or other activities that picks up pollutants (cigarette butts, trash, automotive fluids, used oil, paint, fertilizers and pesticides, lawn and garden clippings, pet waste and sediments) from streets, parking lots, driveways, yards, and construction sites and carries them through the storm drain system into other natural conveyance system components.

Stormwater Pollution Prevention Plan:

A plan to describe a process whereby a facility thoroughly evaluates potential pollutant sources at a site and selects and implements appropriate measures designed to prevent or control the discharge of pollutants in stormwater runoff.

Total Maximum Daily Load "TMDL":

The calculated maximum permissible pollutant loading to a water body at which water quality standards can be maintained. The sum of waste load allocations (WLAs) and load allocations (LAs) for any given pollutant.

Urbanized Area “UA”:

A land area comprising one or more places {core and fringe} with urban limits defined by a population density of 1,000 people per square mile and its contiguous census tracts of 500 people per square mile — that together have a residential population of at least 50,000.



Appendix 6
Listing of Common Acronyms



BMP	Best Management Practice
CFR	Code of Federal Regulations
CGP	Construction General Permit
COD	Chemical Oxygen Demand
CSO	Combined Sewer Overflow
CWA	Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972)
D.O.	Dissolved Oxygen
EPA	Environmental Protection Agency
FR	Federal Register
MEP	Maximum Extent Practicable
MS4	Municipal Separate Storm Sewer System
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
NPS	Non-point Source
O&M	Operation and Maintenance
PA	Permitting Authority
POTW	Publicly Owned Treatment Works
SWPPP	Storm Water Pollution Prevention Plan
TMDL	Total Maximum Daily Load
UA	Urbanized Area



Appendix 8
City Ordinance

There came for consideration of the Mayor and Members of the Council of the City of Gautier, Mississippi, the following:

ORDINANCE NO. 172-2007

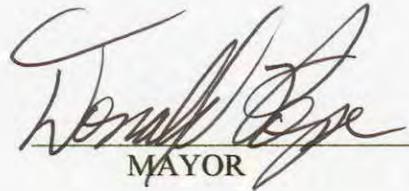
BE IT SO ORDAINED by the Mayor and Members of the Council of the City of Gautier, Mississippi, that the Stormwater Management Ordinance proposed by Eco-Systems be adopted in its entirety as Chapter 13 of the Code of Ordinance for the City of Gautier.

IT IS FURTHER ORDERED that the City Manager is authorized to execute any and all documents necessary.

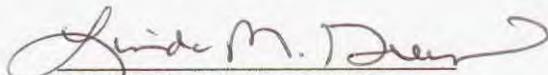
Motion was made by Lay, seconded by Hansford, and the following vote was recorded:

AYES: Donald Pope
Virginia Lay
Hurley Ray Guillotte
Richard Paul
Jeff Wilkinson
Don Hansford
Matt Feathers

NAYS: None


MAYOR

ATTEST:


INTERIM CITY CLERK

PASSED AND ADOPED by the Mayor and Members of the Council of the City of Gautier, Mississippi, at the meeting April 17, 2007.

CHAPTER 13

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INTRODUCTION

It is the intention of the City Council of the City of Gautier (the Council) to protect the health and safety of the citizens and visitors of the community and to prevent damage to private property and public facilities through the proper design and construction of both on-site and regional stormwater management and/or detention facilities that prevent or adequately reduce increases in peak flow rates of runoff that may otherwise increase the risk of flooding and the associated risk of public endangerment, property damage and erosion. To accomplish this goal, the Council finds it is necessary to provide stormwater management practices for drainage and control of flood and surface waters within the City of Gautier. This is to insure that storm and surface waters may be properly drained and controlled, pollution may be reduced and environment enhanced, and that the health property, safety and welfare of the City of Gautier and its inhabitants may be safeguarded and protected.

Stormwater Runoff is a major contributor to degradation and pollution of receiving waters. Discharges into a Stormwater Runoff system may occur because of stormwater runoff, spills, dumping, and/or improper connections to the stormwater system from developments, residential, industrial, commercial, or institutional establishments. Such discharges not only impact waterways individually, but geographically dispersed, small volume discharges can have a cumulative impact on receiving waters, which can adversely affect public health and safety, drinking water supplies, recreation, fish and other aquatic life, property values and other uses of lands and waters. The City Council of the City of Gautier endorses promulgation of this ordinance to address the impacts of stormwater runoff, spills, improper dumping, and/or illegal connections to the City runoff program. This ordinance applies to all lands within the corporate limits of the City of Gautier.

Section A Purpose

- A. The purpose of this ordinance is to protect the environment, public health, safety, property and general welfare of the citizens of Gautier, Mississippi, through the regulation of Stormwater Runoff and Illicit Discharges into the City Storm Drainage or any Separate Storm Sewer system, to the maximum extent practicable as required by federal and state law. This ordinance establishes methods for controlling the introduction of pollutants into the City drainage system in order to comply with requirements of the National Pollutant Discharge Elimination System (NPDES) permit process.
- B. This ordinance is not intended to modify or repeal any other ordinance, rule, regulation, or other provision of law. The requirements of this ordinance are in addition to the requirements of any other ordinance, rule, regulation, or other provision of law, and where any provision of this ordinance imposes restrictions different from those imposed by any other ordinance, rule, regulations, or other provision of law. Whichever provision is more restrictive or imposes higher protective standards for human health or the environment shall control.

Section B Objectives

- A. The objectives of this ordinance are:
- (1) To regulate or restrict the introduction of pollutants that may potentially enter the City Drainage System;
 - (2) To prohibit Illegal Connections and Discharges to any separate storm sewer system;
 - (3) To identify, define, and regulate erosion, sediment and detention controls related to stormwater runoff;
 - (4) To prevent discharges that may occur as a result of spills, inappropriate dumping or disposal, and/or improper connections to the City drainage system, whether from residential, industrial, commercial or institutional establishments;
 - (5) To provide the City of Gautier with the authority to effectively manage stormwater runoff non-conformance and illicit discharges, and to establish enforcement actions for those persons or entities found to be in noncompliance or that refuse to allow access to their facilities;
 - (6) To establish legal authority to carry out all inspection, surveillance, monitoring, and enforcement procedures necessary to ensure compliance with this ordinance.

DEFINITIONS

Accidental Discharge. A discharge prohibited by this ordinance, which occurs by chance, and without planning or thought prior to occurrence.

Authorized Enforcement Agency. Employees or designees of the agency designated to enforce this ordinance including the City of Gautier, the Mississippi Department of Environmental Quality (MDEQ) and the U.S. Environmental Protection Agency (EPA).

Best Management Practices (BMPs): schedules of activities, prohibitions of practices, general good housekeeping practices, pollution prevention and educational practices, maintenance procedures, and other management practices designed to prevent or reduce the discharge of pollutants directly or indirectly to stormwater, receiving waters, or stormwater conveyance systems. BMPs also include treatment practices, operating procedures, and practices to control site runoff, spillage or leaks, sludge or water disposal, or drainage from raw materials storage.

Best Management Practices (BMPs) – Non-Structural: A policy, practice or preventative action that involves operational planning and source controls designed to provide a proactive approach to stormwater management.

Best Management Practices (BMPs) – Structural: A physical device designed and constructed or manufactured to trap or filter pollutants from runoff, to reduce runoff velocities, or to minimize or prevent the impacts and effects of soil erosion caused by stormwater runoff.

Clean Water Act: The federal Water Pollution Control Act (33 U.S.C., 1251 et seq.), and any subsequent amendments thereto.

Construction Activity: Activities subject to NPDES Construction Permits. These include construction projects resulting in land disturbances. Such activities include but are not limited to clearing and grubbing, grading, excavating, and demolition.

City Drainage System (CDS): Any City maintained or designated roadways, ditches, culverts, channels, or conduits intended to direct water flows.

Facility: A structure, installation, or system that is designed to serve a particular purpose, service, or function.

Hazardous Materials: Any material, including any substance, waste, or combination thereof, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may cause, or significantly contribute to, a substantial present or potential hazard to human health, safety, property, or the environment when improperly treated, stored, transported, disposed of, or otherwise managed.

Illegal Connections: An illegal connection is defined as any of the following: Any pipe, open channel, drain or conveyance, whether on the surface or subsurface, which allows an illegal discharge to enter the drainage system including but not limited to any conveyances which allow any non-stormwater discharge including sewage, process wastewater, wash water, or any other such discharge, to enter the storm drain system and any connections to the storm drain system from any source, regardless of whether such pipe, open channel, drain, connection, or source had been previously allowed, permitted, or approved by an authorized enforcement agency.

Illicit Discharge: Any direct or indirect discharge into a stormwater drainage system that is not composed entirely of stormwater.

Industrial Activity: Activities subject to NPDES Industrial Permits as defined in 40 CFR, Section 122.26 (b)(14).

National Pollutant Discharge Elimination System (NPDES) Stormwater Discharge Permit: A permit issued by EPA (or by a State under authority delegated pursuant to 33 USC, 1342(b)) that authorizes the discharge of pollutants to waters of the United States, whether the permit is applicable on an individual, group, or general area-wide basis.

Non-Stormwater Discharge: Any discharge to the storm drain system that is not composed entirely of stormwater.

Person: Any individual, association, organization, partnership, firm, trust, estate, commission, board, public or private institution, utility, cooperative, city, county or other political subdivision of the State, any interstate body or other legal entity, joint venture, public or private corporation, or other entity recognized by law and acting as either the owner or as the owner's agent.

Pollutant: Any substance, which causes or contributes to pollution. Pollutants may include, but are not limited to paints, varnishes, solvents, petroleum hydrocarbons, automotive fluids, cooking grease, detergents (biodegradable or otherwise), degreasers, cleaning chemicals, non-hazardous liquid and solid wastes, yard wastes, refuse, rubbish,

garbage, litter, discarded or abandoned objects, munitions, accumulations that may cause or contribute to pollution, any floatables, pesticides, herbicides, fertilizers, hazardous substances and wastes, sewage, fecal coliform and pathogens, dissolved and particulate metals, animal wastes, wastes and residues that result from constructing a building or structure including concrete/cement (this includes water from washing out cement trucks) and noxious or offensive matter of any kind or any other substance which has been or may be determined to be a pollutant.

Pollution: The contamination or other alteration of any water's physical, chemical or biological properties by the addition of any substance or condition including but not limited to, a change in temperature, taste, color, turbidity, or odor of such waters, or waters as will or is likely to create a nuisance or render such waters harmful, detrimental or injurious to the public health, safety, welfare, or environment, or to domestic, commercial, industrial, agricultural, recreational, or other legitimate beneficial uses, or to livestock, wild animals, birds, fish or other aquatic life.

Premises: Any parcel or portion of land whether improved or unimproved.

Separate storm sewer system: Any facility designed or used for collecting and/or conveying stormwater, including but not limited to streets or roads with drainage systems, gutters, inlets, catch basins, piped storm drains, pumping facilities, structural stormwater controls, ditches, swales, natural and man-made or altered drainage channels, reservoirs, and other drainage structures, and which are:

- a) Owned or maintained by the City
- b) Not part of publicly owned treatment works.

State Waters: Any and all rivers, streams, creeks, branches, lakes, reservoirs, ponds, drainage systems, springs, well, and other bodies of surface and subsurface water, natural or artificial, lying within or forming a part of the boundaries of the State, which are not entirely confined and retained completely upon the property of a single person.

Storm Drainage System: Any one (1) or more of various devices used in the collection, treatment or disposition of storm, flood or surface drainage waters, including but not limited to any roads with drainage systems, natural and human-made or altered drainage channels, reservoirs, manmade structures and natural watercourses and/or floodplains for the conveyance of runoff, such as detention or retention areas, berms, swales, improved gutters, pumping stations, pipes, ditches, siphons, catch basins, inlets, and other equipment and appurtenances and all extensions, improvements, remodeling, additions and alterations thereof; and any and all rights or interests in such stormwater facilities.

Stormwater/Stormwater Runoff: Any surface flow, runoff, and/or drainage consisting entirely of water from any form of natural precipitation, which is not absorbed, transpired, evaporated or left in surface depressions, and which then flows controlled or uncontrolled into a watercourse or body of water.

Stormwater Pollution Prevention Plan (SWPPP): A document which describes the Best Management Practices (BMPs) and activities to be implemented by a person or business to identify sources of pollution or contamination at a site and the actions to eliminate or

reduce pollutant discharges to stormwater, stormwater conveyance systems, and/or receiving waters to the maximum extent practicable.

Structural Stormwater Control: A structural stormwater management facility or device that controls stormwater runoff and changes the characteristics of that runoff, including but not limited to, the quantity and quality, the period of release or the velocity of flow.

Wastewater: means any water or other liquid, other than uncontaminated stormwater, discharged from a facility.

Watercourse: Any stream, river, drainage easement, that transverses property in the City of Gautier.

APPLICABILITY

This ordinance shall apply to any and all water entering a storm drainage system generated on any developed or undeveloped lands throughout all of the corporate limits of the City of Gautier unless explicitly exempted by an authorized enforcement agency. The standards set forth herein and promulgated pursuant to this ordinance are minimum standards; therefore this ordinance does not intend nor imply that compliance by any person will ensure that there will be no contamination, pollution, or unauthorized discharge of pollutants.

RESPONSIBILITY FOR ADMINISTRATION

The City Council of the City of Gautier or designee shall administer, implement, and enforce the provisions of this ordinance. Any powers granted or duties imposed upon the authorized enforcement agency may be delegated in writing by the Director of the authorized enforcement agency to persons or entities acting in the beneficial interest of or in the employ of the agency.

SEVERABILITY

The provisions of this ordinance are hereby declared to be severable. If any provision, clause, sentence, or paragraph of this Ordinance or the application thereof to any person, establishment, or circumstances shall be held invalid, such invalidity shall not affect the other provisions or application of this Ordinance.

POLICY

No owner of any parcel of land or property, whether with or without a structure thereupon, shall permit the erosion or escape of soil, sand, gravel, or similar material from said parcel onto any adjoining property, public street or into any drainage channel that receives rainwater runoff from said parcel in such quantities as to harm said adjoining property, public street, drainage channel, or stormwater drainage system. In the development or use of any site, the owner or their agents shall not construct or conduct any activity so as to cause the discharge of rainwater runoff in such a manner as to cause erosion or to increase blockage of such channel or storm drainage system. This includes both pre-construction and post-construction.

Section A

Permitting

Stormwater permits and Stormwater Pollution Prevention Plans (SWPPP) are required as follows:

- 0-.9 Acre of land disturbed: No permit or SWPPP currently required.
- 1-5 Acres of land disturbed: Permit required from City of Gautier Code Enforcement Office (See Appendix). A Notice of Intent (NOI) and SWPPP must be submitted to the Planning Department (See Appendix B and C for examples).
- Above 5 Acres: Permit required from MDEQ. SWPPP must also be submitted to MDEQ.

CONSTRUCTION AND/OR INDUSTRIAL ACTIVITY

Any person subject to an industrial or construction activity National Pollution Discharge Elimination System (NPDES) stormwater discharge permit shall comply with all provisions of such permit. Proof of compliance with said permit may be required in a form acceptable to the Council prior to the allowing of discharges to the City drainage system. Dumping excess cements and washing out cement trucks are included in this article.

Section A

Standards And Requirements For Erosion/Sediment Controls

- (a) Prior to the final approval of the plat of any subdivision, or prior to commencement of construction upon any lot or parcel of land for which a drainage report and construction plan for the installation of stormwater facilities has not been prepared and approved, the owners of the property being subdivided or upon which construction is being commenced shall, at such owner's cost, prepare a detailed drainage report and construction plans for the installation of all stormwater facilities required for such subdivision or lot, including any off-site facilities required to convey stormwater to existing drains, channels, streams, detention ponds or to other points, all in conformity with the SWPPP on file.
- (b) No final subdivision plat, subdivision construction plan, site plan or building permit shall be approved by the City unless the plans for the proposed development include temporary and permanent erosion and sedimentation control measures such that siltation of downstream drainage ways are minimized.
- (c) The above requirement shall be accomplished through a combination of the following practices:
 - a. Installation of structural BMPs before and during construction in order to reduce on-site soil erosion and provide temporary capture of sediment.
 - b. Temporary and/or permanent revegetation of bare ground in order to stabilize disturbed soil at the earliest practicable date.
 - c. Construction of on-site stormwater detention facilities by the landowner or developer in a manner such that detention ponds function as temporary sedimentation basins until permanent revegetation of the subject tract is accomplished.

- d. Other measures which may be necessary to control erosion and sedimentation on a site-by-site basis.

Section B

Standards And Requirements For Stormwater Detention

- A) It is prohibited to place fill material or construct impervious cover or construct or place any other structure on such person's property or perform any excavation or grading in a manner, which alters the flow of surface water across said property in a manner which damages any adjacent property.
 1. No final subdivision plat, subdivision construction plan, site plan or building permit shall be approved by the City unless it can be demonstrated by the owner or developer of such property that the proposed development will not result in damage to any adjacent or downstream property. This will be certified by a professional engineer's submittal of sufficient data and calculations.
- B) The above requirement shall be accomplished through one of the following means:
 1. Design and construction of an on-site stormwater detention facility, or facilities, by the landowner or developer which limits the peak flood flows from the proposed development to the existing peak flood flows from the subject tract.
 2. Construction of, or participation in the construction of, off-site drainage improvements, such as storm inlets, storm sewers, culverts, channel modifications, land filling, and/or other drainage facilities such that the peak flood flows for fully-developed watershed conditions from the watershed area in which the proposed development is located will be sufficiently and safely passed without flooding of adjacent and downstream property and roadways.
 3. Design and construction of the development by certified engineering data and calculations utilizing limited impervious cover, infiltration of runoff from impervious cover via flow through pervious areas, and/or grass-lined swales or channels such that these measures result in a minimal increase in peak flood flows from the development.
 4. All on-site stormwater detention facilities shall be designed to adequately and safely pass all stormwater inflows, including flood flows and runoff from upstream and adjacent properties that have natural and/or existing overland flows toward and onto the subject tract. The on-site stormwater detention facilities should not impound stormwater onto or cause backwater to inundate any upstream or adjacent properties in excess of existing conditions.

Section C

Illicit Discharges

- (a) It shall be unlawful for any person to allow discharges to the City stormwater runoff system that are not composed entirely of stormwater runoff, or to contribute to increased nonpoint source pollution and degradation of receiving waters.
- (b) It shall be unlawful for any person to throw, deposit, empty, drain, discharge, or to permit to be thrown, deposited, emptied, drained or discharged into any

creek, or upon its margins, slopes, banks, or stormwater drainage system within the city any garbage, rubbish, refuse, hair, ashes, cinders, fruit, vegetables, paper, rags, any animal carcass or waste, sewerage, excrement, urine, liquid, or semi-liquid waste from any industry, or any noxious substance or liquid. These non-stormwater discharges may occur due to spills, dumping and improper connections to the city separate storm system from residential, industrial, commercial or institutional establishments. Non-stormwater discharges not only impact waterways individually, but geographically dispersed, small volume non-stormwater discharges can have cumulative impacts on receiving waters. The impacts of these discharges adversely affect public health and safety, drinking water supplies, recreation, fish and other aquatic life, property values and other uses of lands and waters. These impacts can be minimized through the regulation of spills, dumping and discharges into the city separate storm sewer system. Therefore, it is determined that the regulation of spills, improper dumping and discharges to the city storm system is in the public interest and will prevent threats to public health and safety, and the environment.

- (c) No person shall, or allow others under its control, to throw, drain, or otherwise discharge or cause to be discharged into a storm drainage system or watercourses any materials, including but not limited to pollutants or waters containing any pollutants that cause or contribute to a violation of applicable water quality standards, other than stormwater. The commencement, conduct or continuance of any illegal discharge to the storm drainage system is prohibited except as follows:
1. Discharges specified in writing by the authorized enforcement agency as being necessary to protect public health and safety.
 2. Water line flushing performed by a government agency.
 3. Landscape irrigation or lawn watering, diverted stream flows, rising ground water, ground water infiltration to storm drains, uncontaminated pumped ground water, foundation or footing drains (not including active groundwater dewatering systems), crawl space pumps, air conditioning condensation, springs, non-commercial washing of vehicles, natural riparian habitat or wet-land flows, swimming pools (if de-chlorinated – typically less than one PPM chlorine), fire fighting activities, and any other water source not containing Pollutants.
 4. Dye testing is an allowable discharge, but requires a verbal notification to the authorized enforcement agency prior to the time of the test.

The prohibition shall not apply to any non-stormwater discharge permitted under an NPDES permit, waiver, or waste discharge order issued to the discharger and administered under the authority of the Federal Environmental Protection Agency, provided that the discharger is in full compliance with all requirements of the permit, waiver, or order and other applicable laws and regulations, and provided that written approval has been granted for any discharge to the storm drain system.

The construction, connection, use, maintenance or continued existence of any illegal connection to the City storm drainage system is prohibited. This prohibition expressly includes, without limitation, illicit connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection. The construction, use, maintenance or continued existence of illicit connections to the storm drainage system is prohibited.

- (a) A person is considered to be in violation of this ordinance if the person connects a line conveying sewage to a storm drainage system, or allows such a connection to continue.
- (b) Improper connections in violation of this ordinance must be disconnected and redirected, if necessary, to an approved onsite wastewater management system or the sanitary sewer system upon approval of the appropriate department or agency.
- (c) Any drain or conveyance that has not been documented in plans, maps or equivalent, and which may be connected to a storm drainage system, shall be located by the owner or occupant of that property upon receipt of written notice of violation from the local enforcement authority requiring that such locating be completed. Such notice will specify a reasonable time period within which the location of the drain or conveyance is to be completed, that the drain or conveyance be identified as storm sewer, sanitary sewer or other, and that the outfall location or point of connection to the storm drainage system, sanitary sewer system or other discharge point be identified. Results of these investigations are to be documented and provided to the local enforcement authority.

ARTICLE 8.0 MONITORING OF DISCHARGES/ACCESS AND INSPECTING PROPERTIES AND FACILITIES

A. Applicability

This section applies to all properties that create stormwater discharges associated with the use of the property.

1. Access to Properties and Facilities

- (a) The City of Gautier City Council or designated official shall be permitted to enter and inspect properties and facilities subject to regulation under this ordinance at reasonable times and as often as may be necessary to determine compliance with this ordinance. If a discharger has security measures in force, which require proper identification and clearance before entry into its premises, the discharger shall make the necessary arrangements to allow access to representatives of the authorized enforcement agency.
- (b) Property owners and facility operators shall allow the City of Gautier City Council access to all parts of the premises for the purposes of inspection, sampling, photographing, videotaping, examination and copying of records that must be kept under the conditions of an NPDES permit to discharge stormwater, and the performance of any additional duties as defined by state and federal law.

activity, to the extent practicable, shall be deemed compliance with the provisions of this section. These BMP's shall be part of a Stormwater Pollution Prevention Plan (SWPPP) as necessary for compliance with requirements of the NPDES permit.

WATERCOURSE OR EASEMENT PROTECTION

Any person owning property through which a watercourse passes, or such person's lessee, shall keep and maintain that part of the watercourse within the property free of trash, debris, excessive vegetation, and other obstacles that would pollute, contaminate, or significantly retard the flow of water through the watercourse. In addition, the owner or lessee shall maintain existing privately owned structures within or adjacent to a watercourse, so that such structures will not become a hazard to the use, function, or physical integrity of the watercourse.

NOTIFICATION OF SPILLS

In the event of a release of hazardous materials, emergency response agencies and/or other appropriate agencies shall be immediately notified. Notwithstanding other requirements of law, as soon as any person responsible for a facility, activity, or operation, or responsible for emergency response for a facility, activity, or operation has information of any known or suspected release of pollutants or non-stormwater materials from that facility or operations which are resulting or may result in illegal discharges or pollutants discharging into stormwater, the City storm drainage system, State waters, or Waters of the U.S., said person shall take all necessary steps to ensure the discovery, containment, and cleanup of such release so as to minimize the effects of a discharge .

In the event of recognition of such a release of hazardous materials said person shall immediately notify the authorized enforcement or emergency response agencies of the occurrence, either in person, by phone, or facsimile no later than 24 hours, of the nature, quantity and time of the occurrence via emergency dispatch services. In the event of a release of non-hazardous materials, said person shall notify the authorized enforcement agency in person or by phone or facsimile no later than the next business day. Notifications in person or by phone shall be confirmed by written notice addressed and mailed to the City of Gautier City Council or authorized enforcement agency within three business days of the phone notice.

If the discharge of prohibited materials emanates from a commercial or industrial establishment, the owner or operator of such establishment shall also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. Such records shall be retained for at least three years. Said person shall also take immediate steps to ensure no recurrence of the discharge or spill. Failure to provide notification of a release as provided above is a violation of this ordinance.

VIOLATIONS

It shall be unlawful for any person to violate any provision or fail to comply with any of the requirements of this ordinance. Anyone who has violated or continues to violate the provision of this Ordinance, may be subject to enforcement actions outlined in this section or may be restrained by injunction or otherwise restricted in a manner provided

Any person violating any of the provisions of this article shall become liable to the City by reason of such violation.

PENALTIES AND PROSECUTION

A. CIVIL

In the event the alleged violator fails to take the remedial measures set forth in the notice of violation or otherwise fails to cure the violations described therein within ten days, or such greater period as the local permitting authority shall deem appropriate, after the permitting authority has taken one or more of the actions described above, the local permitting authority may seek any legal or equitable remedy available under the law. The authorized enforcement agency may recover all attorneys' fees, court costs, and other expenses associated with enforcement of this ordinance, including sampling and monitoring expenses.

B. CRIMINAL

Violations of this ordinance shall be deemed a misdemeanor. The local permitting authority may issue a citation to the alleged violator requiring such person to appear before the appropriate court to answer charges for such violation. Upon conviction, such person shall be punished by a fine not to exceed \$1,000.00 or imprisonment in the County jail for 60 days, or both. Each violation and each day upon which any violation shall continue, will constitute a separate offense.

C. CRIMINAL PROSECUTION

Any person that has violated or continues to violate this ordinance shall be guilty of a misdemeanor and subject to criminal prosecution to the fullest extent of the law.

D. INJUNCTION

If a person has violated or continues to violate the provisions of this ordinance, the authorized enforcement agency may petition for a preliminary or permanent injunction restraining the person from activities which would create further violations or compelling the person to perform abatement or remediation of the violation.

E. ALTERNATIVE ACTION

In addition to any other remedy, the authorized enforcement agency may impose upon a violator alternative compensatory action; such as storm drain stenciling, attendance at compliance workshops, creek cleanup, etc.

Section A Remedies Not Exclusive

The remedies listed in this ordinance are not exclusive of any other remedies available under any applicable federal, state or local law and it is within the discretion of the authorized enforcement agency to seek cumulative remedies. The local enforcement authority may recover attorney's fees, court costs, and other expenses associated with enforcement of this ordinance, including sampling and monitoring expenses.

Section B Violations Deemed A Public Nuisance

In addition to the enforcement processes and penalties provided, any condition caused or permitted to exist in violation of any of the provisions of this Ordinance is a threat to public health, safety, and welfare, and environment, is declared and deemed a nuisance, and may be summarily abated by injunctive or other equitable relief as provided by law, or restored at the violator's expense, and/or a civil

action to abate, enjoin, or otherwise compel the cessation of such nuisance may be taken.

Section C

Suspension Of Access To Storm Drainage System(s)

A. Suspension due to Illicit Discharges in Emergency Situations

The Council may, without prior notice, suspend discharge access to a person when such suspension is necessary to stop an actual or threatened discharge, which presents or may present imminent and substantial danger to the environment, or to the health or welfare of persons, or Waters of the United States. If the violator fails to comply with a suspension order issued in an emergency, the authorized enforcement agency may take such steps as deemed necessary to prevent or minimize damage to the Waters of the United States, or to minimize danger to persons.

B. Suspension due to the Detection of Illicit Discharge

1. Any person discharging to the City drainage system in violation of this ordinance may have their access terminated if such termination would abate or reduce an illicit discharge. The authorized enforcement agency will notify a violator of the proposed termination of its city drainage system access. The violator may petition the authorized enforcement agency for a reconsideration and hearing.
2. A person commits an offense if the person reinstates access to premises terminated pursuant to this Section, without the prior approval of the authorized enforcement agency.

APPEALS

Any person receiving a Notice of Violation may appeal the determination of the authorized enforcement agency. The notice of appeal must be filed with the City Council. A Hearing on the appeal before the City Council shall be set by the Council with at least ten (10) days notice to the violator.

If the violation has not been corrected pursuant to the requirements set forth in the Notice of Violation, or, in the event of an unsuccessful appeal, then representatives of the authorized enforcement agency may enter upon the subject private property and are authorized to take any and all measures necessary to abate the violation and/or restore the property. It shall be unlawful for any owner, agent or person in possession of any premises to refuse to allow the government agency or designated contractor to enter upon the premises for the purposes set forth above.

ADOPTION OF ORDINANCE

This ordinance shall be in full force and effect ___ days after its final passage and adoption. All prior ordinances and parts of ordinances in conflict with this ordinance are hereby repealed.

PASSED AND ADOPTED this ___ day of _____, 20 __, by the following vote:

APPENDIX A PLACEHOLDER FOR CITY OF GAUTIER PERMIT APPLICATION
NOTICE OF INTENT (NOI) FORM

City of Gautier
Small Construction Notice of Intent (SCNOI)
General NPDES Permit MSMS4012

Prior to the commencement of small construction activities, the owner or operator of a small construction project must complete this form and develop a Stormwater Pollution Prevention Plan (SWPPP) as required by Part II of Mississippi's Small Construction General Permit and the City of Gautier's Ordinance for Stormwater Runoff, Illicit Discharges and Illegal Connections. This SCNOI and SWPPP shall be submitted to the City of Gautier Code Enforcement Office prior to obtaining a general construction permit. The SCNOI and SWPPP must be maintained at the permitted site or locally available in case inspector review is necessary. Attachments with this SCNOI must include: A USGS quad map or copy showing the site location and a Stormwater Pollution Prevention Plan (SWPPP). All questions must be answered – answer "NA" if the question is not applicable.

PROJECT INFORMATION

OPERATOR (if different from owner) CONTACT PERSON

OPERATOR COMPANY:

OPERATOR STREET (P.O. BOX)

OPERATOR CITY:

STATE: _____ ZIP: _____

OPERATOR PHONE # (INCLUDE AREA CODE): _____

OWNER CONTACT PERSON:

OWNER COMPANY NAME:

OWNER STREET (P.O. BOX):

OWNER CITY:

STATE: _____ ZIP: _____

OWNER PHONE # (INCLUDE AREA CODE): _____

PROJECT NAME: _____

DESCRIPTION OF CONSTRUCTION ACTIVITY: _____

ACREAGE DISTURBED (to be covered by this permit must be less than five (5) acres): _____

PHYSICAL SITE ADDRESS (IF NOT AVAILABLE INDICATE THE NEAREST NAMED ROAD):

STREET: _____

CITY: _____ **COUNTY:** _____ **ZIP:** _____

NEAREST NAMED RECEIVING STREAM: _____

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 directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature

Date Signed

Printed Name

Title

SWPPP DETAILS AND REQUIREMENTS

A. SWPPP Development. A SWPPP shall be developed and implemented by the owner or operator of a small construction project. The SWPPP must include a description of appropriate control measures (i.e., BMPs) that will be implemented as part of the construction activity to control pollutants in storm water discharges.

1. The SWPPP shall be retained at the permitted site or locally available. A copy of the SWPPP must be made available to the MDEQ inspectors for review at the time of an on-site inspection.
2. BMPs shall be in place upon commencement of construction.
3. The Executive Director of MDEQ may notify the owner or operator at any time that the SWPPP does not meet the minimum requirements of this permit. After notification, the owner or operator shall amend the SWPPP, implement the changes and certify in writing to the Executive Director that the requested changes have been made. Unless otherwise provided by the Executive Director, the requested changes shall be made within 15 days.
4. The owner or operator shall amend the SWPPP and implement the changes before there is a change in construction, operation, or maintenance, which may potentially effect the discharge of pollutants to State waters.
5. The owner or operator shall amend the SWPPP and implement the changes if the SWPPP proves to be ineffective in controlling storm water pollutants including, but not limited to, significant sediment leaving the site and non-functioning BMPs.

B. Compliance with Local Storm Water Ordinances.

1. In addition to the requirements of this permit, the SWPPP shall be in compliance with all local storm water ordinances and shall provide a brief description of applicable local erosion and sediment controls and post-construction BMPs.
2. When storm water discharges into a municipal storm sewer system, the owner or operator must make the SWPPP available to the municipal authority upon request.

C. SWPPP Details.

1. **Owner or Operator.** The SWPPP shall identify the “owner or operator” as defined in Part VII. of this permit. The operator’s name, complete mailing address and telephone number(s) shall be identified on the plan.
2. **Erosion and Sediment Controls.** The owner or operator shall list and describe controls appropriate for the construction activities and the procedures for implementing such controls. Controls shall be designed to retain sediment onsite and should:
 - Divert upslope water around disturbed areas
 - Limit exposure of disturbed areas to the shortest time possible
 - Disturb the smallest area possible
 - Preserve existing vegetation where possible, especially trees
 - Preserve vegetated buffer zones around any creek, drain, lake, pond or wetland
 - Slow rainfall runoff velocities to prevent erosive flows
 - Avoid disturbing sensitive areas such as:
 - Steep and/or unstable slopes
 - Land upslope of surface waters
 - Areas with erodible soils
 - Existing drainage channels
 - Transport runoff down steep slopes through lined channels or piping
 - Minimize the amount of cut and fill
 - Re-vegetate disturbed areas as soon as possible
 - Implement best management practices to mitigate adverse impacts from storm water runoff; and
 - Remove sediment from storm water before it leaves the site by allowing runoff to pond in controlled areas to drop out sediment
 - Filter runoff by using natural vegetation, brush barriers, silt fences, hay bales, etc.

At a minimum, the controls must be in accordance with the standards set forth in "Planning and Design Manual for the Control of Erosion, Sediment & Stormwater," or other recognized Manual of design as appropriate for Mississippi. The planning and design manual can be obtained by calling 601/961-5171 or may be found electronically at Mississippi State’s educational web site at <http://abe.msstate.edu/csd/p-dm/>. In addition, Mississippi’s “Storm Water Pollution Prevention Plan (SWPPP) Guidance Manual for Construction Activities” is available by calling 601/961-5171 or on the MDEQ website at www.deq.state.ms.us. The erosion and sediment controls shall address the following minimum components.

- B. **Vegetative practices** shall be designed to preserve existing vegetation where possible and revegetate disturbed areas as soon as practicable after grading or construction. Such practices may include surface roughening, temporary seeding, permanent seeding, mulching, sod stabilization, vegetative buffer strips, and protection of trees.
- C. **Structural practices** shall divert flows from exposed soils, store flows or otherwise limit runoff from exposed areas. Such practices may include construction entrance/exit, straw bale dikes, silt fences, earth dikes, brush barriers, drainage swales, check dams, subsurface drains, pipe slope drains, level spreaders, drain inlet protection, outlet protection, detention/retention basins, sediment traps, temporary sediment basins or equivalent sediment controls.
- D. **Post construction control measures** shall be installed to control pollutants in storm water after construction is complete. These controls include, but are not limited to on-site infiltration of runoff, flow attenuation using open vegetated swales, exfiltration trenches and natural depressions, constructed wetlands and retention/detention structures. Where needed, velocity dissipation devices shall be placed at detention or retention pond outfalls and along the outfall channel to provide a non-erosive flow.
3. **Non-Storm Water Discharges.** Except for flows from fire fighting activities, sources of non-storm water listed in Part I. E. of this permit that are combined with storm water discharges associated with construction activity must be identified in the SWPPP. The SWPPP must identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.
4. **Housekeeping Practices.** The owner or operator shall describe and list practices appropriate to prevent pollutants from entering storm water from construction sites due to poor housekeeping. The owner or operator shall:
- designate areas for equipment maintenance and repair and concrete chute wash off;
 - provide waste receptacles at convenient locations;
 - provide regular collection of waste;
 - provide protected storage areas for chemicals, paints, solvents, fertilizers, and other potentially toxic materials;
 - provide adequately maintained sanitary facilities; and
 - provide secondary containment around on-site fuel tanks.

Releases into the environment of hazardous substances, oil, and pollutants or contaminants, which pose a threat to applicable water quality standards or causes a film, sheen or discoloration of State waters, shall be reported to the:

- Mississippi Emergency Management Agency (601) 352-9100
- National Response Center 1-800-424-8802

5. **Prepare Scaled Site Map.** The owner or operator shall prepare a scaled site map showing total area of the site, original and proposed contours (if practicable),

direction of flow of storm water runoff, adjacent receiving water bodies, north arrow, all erosion & sediment controls (vegetative and structural), post construction control measures as described in Part III. C. 2. of this permit, and an estimate of the pre and post construction runoff coefficients of the site (see runoff coefficients in Part VII.) and the increase in impervious area.

6. **Implementation Sequence.** The owner or operator shall prepare an orderly listing which coordinates the timing of all major land-disturbing activities together with the necessary erosion and sedimentation control measures planned for the project.
-