

**Stormwater Management Plan
City of St Martins, Missouri
Small MS4 Permit # MO-R040075**

Prepared for:

**City of St Martins
6909A Business 50 West
St Martins, Missouri 65109**

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INTRODUCTION

The City of St Martins, hereinafter referred to as the City, has a Small Municipal Separate Storm Sewer System (MS4). Because the areas in and around the City of Jefferson has a population of over 1,000 per square mile, the urbanized areas, as defined by the United States Census Bureau, is a Missouri "regulated MS4" and must obtain a NPDES Stormwater Permit. The City must also develop a Stormwater Management Plan (SMP).

The SMP summarizes the City's intentions to reduce the amount of pollution in its stormwater runoff in the urbanized areas by addressing the six categories of concern listed in the permit. These categories are as follows:

1. Public Education and Outreach.
2. Public Involvement and Participation.
3. Illicit Discharge Detection and Elimination.
4. Construction Site Runoff Control.
5. Post-construction Site Runoff Control.
6. Pollution Prevention/Good House Keeping.

The City will adapt this plan to its own unique situation and will attempt to improve the plan each year. As circumstances change, new solutions may be necessary to better control pollution in stormwater. This plan is a foundation on which new and innovative ideas and solutions can be developed in the years to come to protect the water quality of our local streams.

DEFINITIONS

Best Management Practice: A type of management, habit, action, practice, type of construction or other ways of doing things that accomplishes the best result – given the circumstances (size, budget, other factors) an entity must work under. Each entity must look at its own particular situation and determine what Best Management Practices work best to implement the six Minimum Control Measures.

BMP: An abbreviated term for “Best Management Practice”.

Minimum Control Measure: One of the six categories that at a “minimum,” must be addressed in the stormwater management plan. The six categories include the following: Public Information, Public Participation, Illicit Discharges, Construction Site Runoff, Post-construction Runoff, and Pollution Prevention/Good House Keeping. Each of these categories is a Minimum Control Measure.

MCM: An abbreviated term for “Minimum Control Measure”.

Maximum Extent Practicable: Doing your best to the maximum extent that is practical – given your city’s abilities and needs.

MEP: An abbreviated term for “Maximum Extent Practicable”

Municipal Separate Storm Sewer System: A stormwater sewer (drainage) system that is “separate” from the regular domestic sewage system. The stormwater sewer system discharges directly to a stream without treatment of the rainwater.

MS4: An abbreviated term for the phrase “Municipal Separate Storm Sewer System”. (One “M” and four “S’s”).

Regulated MS4: A Municipal Separate Storm Sewer System that is required to obtain an NPDES Permit and comply with the Missouri stormwater regulations.

Stormwater: The rain water that flows off parking lots, roads, paved driveway, yards, and other properties into roadside ditches, storm drains, and streams during a rainstorm.

Urbanized Areas: Areas as defined by the U.S. Census Bureau which contains a population of 1,000 residents per 1 square mile.

PUBLIC EDUCATION AND OUTREACH MINIMUM CONTROL MEASURE #1

The City has a goal of significantly increasing awareness among its citizens of stormwater pollution. The strategy for accomplishing the goal will include several measurable efforts to raise public awareness of how stormwater is contaminated and ways each individual can help minimize the problem. Outreach will seek to inform people about the following subjects:

1. The proper handling and disposal of solid wastes.
2. The proper handling and disposal of hazardous wastes.
3. The proper handling and application of fertilizers and pesticides on lawns
4. The elimination of illegal dumping of oil and other chemicals into storm drains.
5. The importance of erosion control structures on construction sites to prevent sediment from eroding into storm drains.
6. The importance of detention basins and other post-construction structures to prevent erosion down stream of new developments.

ACTIONS AND MEASURABLE GOALS:

ACTION: Place informational brochures available to the public at the city hall discussing the six subjects listed above. The brochures will consist of the following:

General Information Brochure: This will contain general information about the Phase II storm water requirements for the urbanized areas and discuss the six minimum control measures.

Developer Brochure: This will contain the specific information about the Phase II storm water requirements as they pertain to developers doing work in the City.

Contractor Brochure: This will contain the specific information about the Phase II storm water requirements as they pertain to contractors doing work in the City.

Measurable Goal: Have brochures in place in 2013.
Distribute on an ongoing basis.

ACTION: Contact local radio and television stations to discuss possible public service announcements (PSA) through cooperative agreements with the City of Jefferson and Cole County.

Measurable Goal: Make contact with the City of Jefferson and Cole County regarding the above action in 2013 and set a goal for the first PSA by the year 2014. Continue to cooperate with Jefferson City and Cole County on an annual basis.

ACTION: Make storm water presentations to the public through cooperative agreements with the City of Jefferson and Cole County. These presentations will be in the form of workshops, festivals, public hearings and/or meetings. The presentations will cover one, some or all of the six minimum control measures in the in the storm water management program.

Measurable Goal: Make one (1) presentation per year to various civic groups with or without participation with the City of Jefferson and Cole County.

**PUBLIC INVOLVEMENT AND PARTICIPATION
MINIMUM CONTROL MEASURE #2**

ACTION: The City will form a Storm Water Management Program committee for the purpose of establishing guidelines for implementing a storm water ordinance. The committee will be comprised of city employees, local developers, local contractors, aldermen, and/or concerned citizens. Once an ordinance is passed, the committee will continue to meet on a semi-annual basis to discuss issues involving the ordinance.

Measurable Goals: The Storm Water Management Program committee will begin meeting by September of 2013.

ACTION: The City will implement a public forum for discussing stormwater issues for the urbanized areas.

Measurable Goals: The City will hold a public meeting to discuss stormwater issues at least two (2) times per year.

ACTION: The City will discuss the possibility of forming a Stormwater Committee with other public entities to guide the development of stormwater requirements and standardization among the entities.

Measurable Goals: The City will contact the City of Jefferson and Cole County about the development and participation in a Stormwater Committee.

ACTION: The City will encourage citizen participation in Cole County's waste tire disposal day. Citizens in the community will be able to drop off waste tires for a small fee. The purpose of this event is to minimize the amount of waste tires that end up being discarded in landfills and streams.

Measurable Goals: The City will publish this date in the City's newsletter and announce this date at Board of Alderman meeting prior to the event each year.

ILLICIT DISCHARGE DETECTION AND ELIMINATION MINIMUM CONTROL MEASURE #3

The City will implement measures to reduce and eliminate unauthorized discharges to its storm sewer system.

ACTION: The City will form a Storm Water Management Program committee for the purpose of establishing guidelines for implementing a storm water ordinance. This ordinance will include provisions for illicit discharge occurrences within these areas.

Measurable Goals: The Storm Water Management Program committee will begin meeting September of 2013. A stormwater ordinance will be implemented by December, 2014.

ACTION: The City will implement a program to inspect storm water outlets for illicit discharge. The program will include the following:

1. Defined inspection methods and procedures
2. Employee inspection training
3. Developing and maintaining a storm sewer system map
4. Remediation guidelines in the event of a detection
5. Tracking complaint calls and department responses

Measurable Goals: Development of the program will be completed and in operation within six months of the formation of the Storm Water Management Program committee.

ACTION: The City will stencil all stormwater inlets with a statement to prohibit the introduction of illegal substances.

Measurable Actions: The City will inspect all stormwater inlets in 2013 for proper stenciling and visually inspects at least 25% of all stormwater inlets each succeeding year for printing degradation and re-stencil as needed.

ACTION: The City will conduct visual inspections of stormwater outlets during the year to detect illegal discharges to storm sewers. The inspection will be documented with charts and photos.

Measurable Actions: The City will visually inspect at least 25% of all stormwater outlets each year and record the inspection date and result.

CONSTRUCTION SITE RUNOFF CONTROL MINIMUM CONTROL MEASURE #4

The City will establish procedures and policies to promote the control of sediment erosion on construction sites. The following actions will be taken:

ACTION: Coordinate with the county to attach an informational brochure geared towards contractors on proper erosion control measures to every building permit issued by the County for the City.

Measurable Goal: Attach the informational brochures to the building permits by December 2013. Continue on an ongoing basis.

ACTION: Require an erosion control plan to be submitted to the City for every construction site of one (1) acre or more.

Measurable Goal: Require the submittal of an erosion control plan for all construction sites of one (1) acre or more by September of 2013 and on a continuing basis after such time.

ACTION: The City will form a Storm Water Management Program committee for the purpose of establishing guidelines for implementing a storm water ordinance. This ordinance will include provisions for illicit construction site runoff control.

Measurable Goals: The Storm Water Management Program committee will begin meeting by September 2013. The storm water ordinance will be implemented by December, 2014.

ACTION: The City will implement a program to inspect all construction sites for storm water runoff control. The program will include the following:

1. Defined inspection methods and procedures
2. Frequency of inspections
3. Employee inspection training
4. Defined acceptable best management practices (BMP's)
5. Guidelines for enforcement
6. Post Construction Program for public review and comment

Measurable Goals: Development of the program will be completed and in operation by December of 2014. Regular inspections of the sites will begin at this time and continue on an ongoing basis.

POST CONSTRUCTION SITE RUNOFF CONTROL MINIMUM CONTROL MEASURE #5

The City will establish policies and procedures to control post-construction site runoff. The City will implement the following actions.

ACTION: The City will form a Storm Water Management Program committee for the purpose of establishing guidelines for implementing a storm water ordinance. This ordinance will include provisions for post construction runoff and quality control in new developments and water quality protection in redevelopment projects.

Measurable Goals: The Storm Water Management Program committee will begin meeting by September 2013.

ACTION: The City will implement stormwater management and water quality assurance in the review and approval process of all developments located within the City. The review and approval process will require stormwater designs that accomplish the post construction runoff and quality objectives using one of the two or a combination of both the following strategies:

- a) Specify a number of stormwater structural and non-structural control strategies, commonly known as best management practices (BMPs). BMP types include ponds, bioretention facilities, infiltration trenches, grass swales, and filter strips.
- b) Implement as a control option "Low Impact Development" (LID) which strives to retain a site's pre-development hydrologic regime by combining impervious area controls with small-scale BMPs. Retaining and treating the stormwater runoff at or near its source is the prime objective of the LID concept. Instead of simply removing stormwater from a site without treatment, and potentially creating water quantity and quality problems downstream, water is stored, reused, and treated at or near its source.
- c) Implement a plan for adequate long term operation and maintenance of selected BMPs and LIDs.

Measurable Goal: Implementation of an ordinance for stormwater management and water quality in the review and approval process for developments will begin by December, 2014.

ACTION: The City will implement a program to inspect completed construction sites for post construction water quality. The program will include the following:

1. Defined inspection methods and procedures

2. Employee inspection training
3. Remediation guidelines in the event of a substandard condition
4. Promotion of alternative water quality practices

Measurable Goals: Development of the program will be completed and in operation by December, 2014.

1. Preconstruction Plan Review Ongoing
2. Construction Site Inspection Ongoing

**POLLUTION PREVENTION / GOOD HOUSE KEEPING
MINIMUM CONTROL MEASURE #6**

STATEMENT OF MINIMAL NEED: The city has one part time road superintendent who performs seasonal operations of maintenance such as mowing the right of ways and snow removal. The city has two trucks used mainly for snow removal and two tractors with mowers. This equipment is stored in a maintenance shed. Salt is stored in a facility owned and operated by Cole County. The city street overlay program is performed by private contractors through contracts with Cole County. All other services such as utilities, trash hauling, sanitary sewer and public water are by other entities.

ACTION: Explore the possibility of contracting with Cole County to perform street sweeping operations on a biannual basis.

Measurable Goal: Contact Cole County Public Works Prior to September 2013.

ACTION: The City will develop a Storm Water Quality Plan (SWQP) that includes Best Management Practices (BMPs) to be followed by City Employees and all contractors for city services.

Measurable Goal: The SWQP will be developed and implemented by December, 2014