

MCM #1: Public Education and Outreach on Storm Water Impacts

4.2.1.1 Permit Requirements

The City of Parkville plans to implement a public education program by distributing educational materials to the community and conducting outreach activities.

4.2.1.2 Decision Process

The City of Parkville developed their stormwater public education and outreach program in cooperation with other local governments in the Kansas City Metro.

4.2.1.2.1 Inform Public on Steps

Parkville plans to inform individuals and households in the community about the steps they can take to reduce stormwater pollution by posting information on our web site once it is upgraded, displaying posters during public meetings, maintain materials at the front desk and distribute door hangers. To increase public awareness the City will collaborate with surrounding communities to issue press releases.

4.2.1.2.2 How to Become Involved

Parkville will inform individuals and groups on how to become involved in the stormwater program by providing those instructions in all materials distributed to the public.

4.2.1.2.3 Target Audiences

Citizens, developers, contractors, City staff and elected officials.

4.2.1.2.4 Target Pollutant Sources

The targeted pollutant sources having a major impact on stormwater quality are:

- Sediment
- Construction chemicals
- Solid waste
- Sanitary waste
- Fertilizers, herbicides and pesticides
- Illegal dumping
- Paint and HHW

Salt and Sand
Illegal Connections

4.2.1.2.5 Outreach Strategy & Partnerships

The City's is to partner with other local governments in the region through the Mid-America Regional Council (MARC) .

4.2.1.2.6 Person Responsible

The person responsible for overall management and implementation of the permittees stormwater public education and outreach program is the Public Works Director.

4.2.1.2.7 Measurable Goals Selection

The City has selected the measurable goals for each of the BMP's via feedback found on the EPA web page outlining effective BMP's.

City of Parkville, Missouri
Minimum Control Measures
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MCM #2: Public Involvement and Participation

4.2.2.1 Permit Requirements

The City of Parkville will implement a public involvement policy that following public notice requirements.

4.2.2.2 Decision Process

Information within this document is the City of Parkville's decision process and rationale for the development of a stormwater public involvement, education and participation program.

4.2.2.2.1 Involving the Public in Developing the Submittal

The City of Parkville will involve the public through stakeholder meetings that will comply with public notice requirements.

4.2.2.2.2 Involving the Public in Program Implementation

The City of Parkville plans to involve the public in the development and implementation of the program through various BMP's.

4.2.2.2.3 Target Audiences to Involve in Program

Citizens, developers, contractors, City staff and elected officials.

4.2.2.2.4 Public Involvement Activities

The City of Parkville will continue its stream team monitoring program.

4.2.2.2.5 Person Responsible

The person responsible for overall management and implementation of the permittees stormwater public education and outreach program is the Public Works Director.

4.2.2.2.6 Measurable Goals Selection

The City has selected the measurable goals for each of the BMP's via feedback found on the EPA web page outlining effective BMP's.

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MCM #3: Illicit Discharge Detection and Elimination

4.2.3.1 Permit Requirement.

4.2.3.1.1 Overview

Parkville will develop, implement and enforce a program to detect and eliminate illicit discharges (as defined in 10 CSR 20-6.200) into their small MS4.

4.2.3.1.2 Map

Parkville will continue to update their storm sewer system map.

4.2.3.1.3 Enforcement

The City of Parkville will follow ordinances and regulations regarding non-stormwater discharges.

4.2.3.1.4 Methods to Detect

The City of Parkville will incorporate visual inspection, visual screening and public watch programs for illegal dumping and non-stormwater discharges into the sewer system.

4.2.3.1.5 Informing the Public

The City of Parkville will inform its employees, local businesses and public of hazards associated with illegal discharges and improper disposal of waste using the following methods:

Distribute Educational Literature
Purchase and Install Storm Drain Markers
Illegal Dumping Hotline

4.2.3.1.6 Not Significant Contributors

Parkville has not identified any of the following categories of non-stormwater discharges or flows as significant contributors of pollutants to their small MS4: landscape irrigation, rising ground waters, uncontaminated ground water infiltration, uncontaminated pumped ground water, discharges from potable water sources, foundation drains, air conditioning condensation, springs, water from crawl space

pumps, footing drains, lawn watering, flows from riparian habitats and wetlands, and street wash water.

4.2.3.1.7 Occasional Incidental Non-Stormwater Discharges

Parkville's illicit discharge ordinance does not include a list of other similar occasional incidental non-stormwater discharges that will not be addressed as illicit discharges because they are not reasonably significant sources of pollutants to the MS4.

4.2.3.2 Decision Process

Parkville has documented their decision process for the development of a storm water illicit discharge detection and elimination program.

4.2.3.2.1 Sources for Mapping

Parkville will continue to update their storm sewer system map using GIS and aerial photography as it becomes cost effective to acquire.

4.2.3.2.2 Regulatory Mechanism

The City of Parkville will use City Ordinances to effectively prohibit illicit discharges to the MS4. This mechanism was selected because ordinances are commonly used by the City to establish laws and set forth the enforcement mechanisms.

In order to effectively prohibit illicit discharge, Parkville will include City ordinance, inspections and public complaints as an aid for effectiveness.

4.2.3.2.3 Enforcement

Parkville will set forth in the ordinance enforcement procedures intended to remove the source of the illicit discharge detected.

Parkville will ensure implementation of the mechanism described in 4.2.3.2.2 above using civil penalties as an enforcement action.

4.2.3.2.4 Detection

Parkville will detect and address illicit discharges to the MS4, including discharges from illegal dumping and spills through dry weather screening and an illegal dumping hotline.

4.2.3.2.4.1 Identify Priority Areas

Parkville will use the system maps identified in 4.2.3.1.2 above and other data to identify priority areas with likelihood of illicit connections.

4.2.3.2.4.2 Trace the Source

N/A

4.2.3.2.4.3 Removal

Parkville will follow the ordinance adopted and the enforcement mechanisms detailed in the ordinance including those legal actions described in 4.2.3.1.3 above to enforce the removal of an identified illicit discharge

4.2.3.2.4.4 Program Evaluation

The success of the described program will be evaluated annually by analyzing the number of illicit discharges discovered and eliminated.

4.2.3.2.5 Public Information

The City of Parkville will inform its employees, local businesses and public of hazards associated with illegal discharges and improper disposal of waste using the following methods:

Distribute Educational Literature

Purchase and Install Storm Drain Markers

Illegal Dumping Hotline

4.2.3.2.6 Responsible Party

The person responsible for overall management and implementation of the permittees illicit discharge program is the Public Works Director.

4.2.3.2.7 Measurable Goals Selection

The City has selected the measurable goals for each of the BMP's via feedback found on the EPA web page outlining effective BMP's.

MCM #4: Construction Site Stormwater Runoff Control

4.2.4.1 Permit Requirements

Parkville plans to develop, implement, and enforce a program to reduce pollutants in any stormwater runoff from construction activities that result in disturbance of greater than or equal to one acre. Parkville also plans to reduce pollutants in stormwater runoff from construction activities that disturb an area less than one acre if the site is part of a larger common plan of development or sale.

4.2.4.1.1 Regulatory Mechanism

Parkville has adopted an ordinance that requires erosion and sediment controls, as well as sanctions to ensure compliance.

4.2.4.1.2 Best Management Practices (BMP's)

Parkville requires construction site operators to implement the appropriate erosion and sediment control best management practices (BMP's).

4.2.4.1.3 Wastes to Be Controlled

Parkville will require construction site operators to control wastes that may cause adverse impacts to water quality such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site.

4.2.4.1.4 Site Plan Review

Parkville has procedures in their ordinance for site plan review, which incorporates consideration of potential water quality impacts.

4.2.4.1.5 Receipt & Consideration of Public Comment

Parkville will not implement procedures in their ordinance for receipt and consideration of information submitted by the public.

4.2.4.1.6 Site Inspection

Parkville has procedures in their ordinance for site inspection and enforcement of erosion and sediment control measures.

4.2.4.1.1 Decision process

The following is the rationale statement for the development of Parkville's overall construction site storm water control program. It documents the individual BMP's, measurable goals, and responsible persons for their program.

4.2.4.2.1 Regulatory Mechanism

Parkville has an ordinance that requires the use of erosion and sediment controls on construction sites. The ordinance outlines the requirements for designers and contractors before, during and after the construction activities. The ordinance provides enforcement measures for those designers and contractors who do not follow the ordinance.

4.2.4.2.2 Enforcement

Parkville has an enforcement section in the ordinance detailing the sanctions and enforcement mechanisms to ensure compliance. These measures include stop work orders and fines.

4.2.4.2.3 Construction Site Operators

Parkville has an ordinance that requires construction site operators to implement and maintain appropriate erosion and sediment control BMP's and control wastes at construction sites that may have adverse impacts on water quality including discarded building materials, concrete truck washouts, chemicals, litter, and sanitary waste.

4.2.4.2.4 Pre-Construction Site Plan Review

Parkville has procedures for site plan review which includes the review of pre-construction plans. The City estimates that 100% of the sites will have a pre-construction review by the City Engineer.

4.2.4.2.5 Public Input on Submittals

Parkville will not implement procedures for receipt and consideration of information submitted by the public.

4.2.4.2.6 Site Inspection & Enforcement

Parkville has procedures for site inspection and enforcement of control measures.

4.2.4.2.7 Person Responsible

The person responsible for overall management and implementation of the permittees construction site stormwater runoff control program is the Public Works Director. The Community Development Department will also be involved in the execution of this program.

4.2.4.2.8 Measurable Goals Selection

The City has selected the measurable goals for each of the BMP's via feedback found on the EPA web page outlining effective BMP's.

MCM #5: Post-Construction Stormwater Management in New Development and Redevelopment

4.2.5.1 Permit Requirement

4.2.5.1.1 Overview

Parkville will develop, implement, and enforce a program to address stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale.

4.2.5.1.2 Strategies

Parkville will develop and implement strategies, which will include a combination of structural and/or non-structural Best Management Practices (BMP's), appropriate for the community.

4.2.5.1.3 Ordinance

Parkville will use an ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment projects to the extent allowable under State or Local law.

4.2.5.1.4 Long-Term Operation & Maintenance

Parkville will ensure adequate long-term operation and maintenance of BMP's.

4.2.5.1.1 Decision Process

The following is the rationale statement for the development of Parkville's overall construction site storm water control program. It documents the individual BMP's, measurable goals, and responsible persons for their program.

4.2.5.2.1 Priority Areas

Parkville will implement regulatory procedures to address stormwater runoff from new development and redevelopment projects. There are no areas identified as a priority for regulatory procedures.

4.2.5.2.2 Regulatory Procedures

Parkville will implement regulatory procedures that will be specifically tailored for the community, minimize water quality impacts, and attempt to maintain pre-development runoff conditions.

4.2.5.2.3 Non-Structural Best Management Practices (BMP's)

4.2.5.2.3.1 Policies & Ordinances

Parkville will research policies and ordinances implemented at similar sized Phase II cities throughout the state on how they successfully manage post-construction. Through this research Parkville will implement policies and ordinances that will help minimize water quality impacts.

4.2.5.2.3.2 Infill Development

N/A

4.2.5.2.3.3 Education

Parkville will implement education programs for developers and the public about project designs that minimize water quality impacts.

4.2.5.2.3.4 Other Non-Structural Measures

N/A

4.2.5.2.4 Structural BMP's

4.2.5.2.4.1 Storage Practices

Parkville currently requires stormwater detention and retention facilities in accordance with APWA 5600, which allows for the use of both wet ponds and dry bottom basins. The City will implement updated detention specifications when they are approved and adopted by APWA.

4.2.5.2.4.2 Filtration Practices

Parkville will implement ordinances or other regulatory mechanisms to apply stormwater Best Management Practices (BMP's) to land development and building construction in Parkville. These mechanisms will allow for filtration practices such as grassed swales, bioretention cells, sand filters and filter strips.

4.2.5.2.4.3 Infiltration Practices

Parkville will implement ordinances or other regulatory mechanisms to apply stormwater Best Management Practices (BMP's) to land development and building construction in Parkville. These mechanisms will allow for infiltration basins and infiltration trenches.

4.2.5.2.5 Regulatory Mechanism

Parkville will research policies and ordinances implemented at similar sized Phase II cities throughout the state on how they successfully manage post-construction. Based on the success of surround Phase II communities, Parkville will implement ordinances or other regulatory mechanisms to address post-construction runoff from new developments and redevelopments.

4.2.5.2.6 Long-Term Operation & Maintenance

Parkville will implement options to help ensure the long-term operation and maintenance of their selected BMP's.

4.2.5.2.7 Responsible Party

The person responsible for overall management and implementation of the permittee's post-construction stormwater management program is the Public Works Director and Community Development Director.

4.2.5.2.8 Measurable Goals Selection

The City has selected the measurable goals for each of the BMP's via feedback found on the EPA web page outlining effective BMP's.

MCM #6: Pollution Prevention/Good Housekeeping for Municipal Operations

4.2.6.1 Permit Requirement.

4.2.6.1.1 Overview

Parkville will develop and implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations.

4.2.6.1.2 Training

Using training materials that are available from EPA, State and other organizations such as MARC, Parkville will include employee training to prevent and reduce stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and storm water system maintenance.

4.2.6.2 Decision Process

Parkville has documented their decision process for the development of a pollution prevention/good housekeeping program for municipal operations. The following is the rationale statement for the development of Parkville's overall construction site storm water control program. It documents the individual BMP's, measurable goals, and responsible persons for their program.

4.2.6.2.1 Pollution Prevention & Good Housekeeping Measures

Parkville will continue to implement pollution prevention and good housekeeping measures by training employees and installing rain gardens in parkland.

Parkville does not own or operate any industrial facilities that are subject to EPA's Multi-Sector General Permit (MSGP) or individual NPDES permits for discharges of storm water associated with industrial activity.

4.2.6.2.2 Employee Training

Parkville will create and implement an employee-training program in the following areas so as to prevent and reduce stormwater pollution from the following activities:

Pesticide Use
Park and Open Space Maintenance
Sewer System Maintenance

4.2.6.2.3 Parkville's program will address the following areas:

4.2.6.2.3.1 Maintenance Activities

The following activities will be implemented to reduce the floatables and other pollutants in the small MS4:

Rain Garden Installation
Minimize Pesticide Use

4.2.6.2.3.2 Pollutant Locations

There are two Public Works facilities. The Parks Department is located in English Landing Park and the Street Department facility is located on Graden Road off of Highway 45 where the new salt storage facility is located.

4.2.6.2.3.3 Pollutant Removal

Parkville will implement training procedures for the removal of dredge spoil, accumulated sediments, floatables, and other debris.

4.2.6.2.3.4 Flood Management

Parkville will review their current regulations concerning flood management to ensure they allow for:

1. Assessment and implementation of solutions that address impacts to water quality for new projects and;
2. Review of existing projects for inclusion of water quality aspects.

4.2.6.2.4 Responsible Party

The Public Works Director will be responsible for overall management and implementation of the pollution prevention and good housekeeping program for Parkville.

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4.2.3.2.5 Program Evaluation

Parkville will evaluate the success of the pollution prevention and good housekeeping minimum control measure by tracking the progress of each measure against the implementation schedule.