

## CITY of SEDALIA STORMWATER MANAGEMENT PROGRAM

This document is in accordance with 40CFR Part 123.32. and will outline the City of Sedalia's program to develop, implement and enforce a stormwater management program designed to reduce the discharge of pollutants to the maximum extent practicable, to protect water quality and to satisfy the appropriate requirements of the Clean Water Act in accordance with Missouri Department of Natural Resources Phase II program. The SWMP addresses the six minimum control measures as required by the regulations. The plan also identifies the City's legal authority to implement the general permit.

The stormwater management plan traverses all areas within the corporate city limits. The City of Sedalia has a population of approximately 20,699 residents according to the 2006 consensus, 150 miles of roadways and 10 stormwater outfalls from the City discharging into the waters of the state.

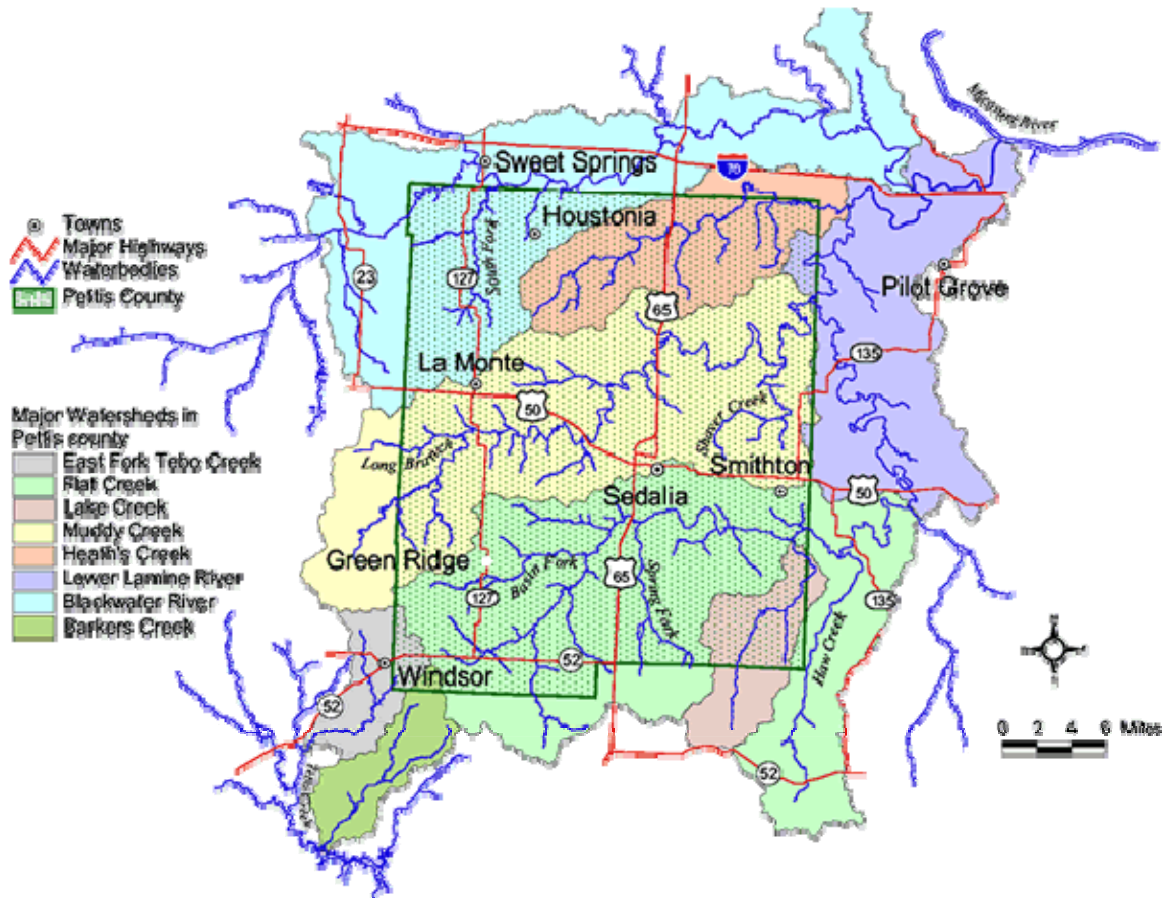
The City of Sedalia's MS4 discharge waters flow to 2 impaired listed water bodies, which are Sewer Branch and Little Muddy Creek. At this time Sewer Branch does not have a finalized listed TMDL, because of this circumstance we do not know of any pollutants from the City's MS4 waters that would be impairing this water body. If a TMDL is filed for this water body, the City will take appropriate action as necessary. Little Muddy Creek is not impaired by pollutants from the City's MS4. The pollutant in question is the temperature compensation due to the Tyson Foods Incorporation discharges.

The City of Sedalia will submit its required report annually during the first term of the permit cycle. The report will include the status of compliance with the permit conditions, an assessment of the appropriateness of the Best Management Practice (BMP) and progress toward achieving the measurable goals for each six minimum control measures. A summary of the activities the City of Sedalia will undertake during the reporting cycle and any changes to BMPs or measurable goals will be included in the report.

The plan outlines the six minimum control measures, which are expected to result in significant reductions in pollutants discharged.

Name of Permittee:	City of Sedalia
Type of Entity:	City – Municipality
Mailing Address:	200 South Osage Avenue, Sedalia, MO 65301
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# Watershed Map



**The six minimum control measures:**

**Public Education / Outreach**

**Public Participation / Involvement**

**Illicit Discharge Detection / Elimination**

**Construction Site Runoff Control**

**Post Construction Runoff Control**

**Pollution Prevention / Good Housekeeping**

**1. Public Education and Outreach on Stormwater Impacts**

**Permit Requirement:**

Continue a public education program to distribute educational materials to the community and conduct outreach activities about the impacts of stormwater discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff.

**Decision Process:**

The educational materials used were selected by deciding the best way to communicate to the citizens of Sedalia. These BMPs will allow the people of Sedalia to have an input on what is happening and other ways they can help. Children are the main focus, although the City will also be targeting individuals and businesses. Businesses are important to consider as well since they have a much larger impact on the community and will be targeted through informational flyers, brochures and posters.

**Rationale Statement on Informing Individuals and Households on Stormwater Pollution Reduction:**

Individuals will be targeted through inserts mailed with their water bills. These mailings will go to all people within the Sedalia Water Department service area. Announcements will also be made through the radio and newspaper to ensure anyone interested may participate in volunteer services or other informative classes. Classes will be held every four months.

**Rationale Statement on Informing Individuals and Groups on Stormwater Pollution Reduction:**

Groups targeted to become active in the stormwater volunteer activities will be the Stream Team members and Boy and Girl Scouts. They will be asked by the City of Sedalia to participate in cleanups. These groups can help in stenciling and cleaning the stormwater runoff drains, catch basins and ditches. Other groups will be informed and asked to participate once these volunteers are organized. There will always be volunteers welcome with the City and information will be constantly provided on how to become a part of the stormwater pollution runoff plan. The City will post volunteer information in schools, send flyers out by mail and create a website to aid in public education and outreach. A city official will join the volunteers and will document areas cleaned and illicit discharges detected.

**Target Audience:**

It is essential to target our youth. They are the leaders of tomorrow. Teaching students will lessen the chances of them polluting the environment. The target areas will be kindergarten through tenth grade. The City has created a PowerPoint Presentation that will help children understand what stormwater runoff is and the benefits of protecting it. At the end of the presentation we will give children the information they need to become a volunteer, as well as a coloring pamphlet activity booklet.

The City will not only be targeting students, but they will be targeting businesses such as auto body garages and restaurants. A different pamphlet or flyer will be made for each type of business. The stormwater coordinator will be visiting local businesses and distributing educational flyers. The City will also be targeting construction sites through informational classes and an ordinance.

Target Pollutant Sources to Address through Public Education:

The pollutant sources to be targeted will be: illicit discharges, waste oil, pet waste, paint, pesticides, yard waste, trash, septic tank waste, grease traps and mop water disposal.

Outreach Strategies:

Brochures, flyers, meetings, newspapers, radio, and PowerPoint presentations will all be strategies to inform the public of water pollution and the preventative measures. Flyers will be presented when visiting schools and sent out with water bills. The PowerPoint presentations will be used at school public meetings to discuss things such as septic tank upkeep and pollution prevention methods. Radio and newspaper will be used to announce the pick up of hazardous materials and leaf collections. Informational flyers will be given to businesses discussing how to reduce pollutants.

Evaluate the Success of the City of Sedalia's Program:

The number of presentations given in one year will determine the amount of children or adults reached. A big part of the city's success rate will be measured by time line completions. Volunteer recruitment success will also be factored into the city's success rate.

Number of People Expected to be Reached Over the Permit Term:

Over the permit term 80% of businesses and school aged children will be reached.

Reasoning Behind Selecting Specified BMP:

The BMPs were selected to target youth, industries and the citizens of Sedalia. The size of Sedalia and the number of people who must be reached as well as the methods for reaching these people were given strong consideration when choosing BMPs. If these methods are lacking and outreach does not seem to be meeting the City of Sedalia's educational requirements, actions will be taken to better the program.

Description of Best Management Practices and Implementation Plan:

1. Bilingual brochures or fact sheets for general public and specific audiences
  - 1.1. Bilingual flyers will be mailed with water bills explaining the impacts of stormwater discharges on water bodies and the steps individuals can take to reduce pollutants. These flyers will describe different ways to protect the stormwater runoff, covering a different subject every 4 months. The flyers will include the stormwater hotline number and website information.
2. Volunteer Educators
  - 2.1. Volunteer Educators (VE) will be utilized. The City will attempt to involve the Stream Team and college students to relay information to other volunteers. The City will post volunteer educator flyers in schools. VE will be trained to train others on stormwater concerns.
3. Alternative Information Sources
  - 3.1. The alternative information resources will be a website containing information pamphlets, ordinances, BMP booklet, volunteer information, designated hazardous waste disposal sites and the stormwater hotline to call. The public will have the opportunity to submit stormwater concerns at this website. Other outreach resources will be bumper stickers, tattoos, pencils and possibly placemats for restaurants.
4. Event Participation
  - 4.1. Events will be held at the schools and the Missouri State Fair making information available to the public and allowing children to take part in stormwater related activities. Water festivals will first be held at schools, eventually conducting one large enough to involve all citizens of Sedalia.

5. Educational Programs
  - 5.1. A PowerPoint Presentation will be used to educate children on the effects of stormwater discharges to water bodies. Activity booklets will be another educational tool utilized by the City to further participation and understanding. Also activities such as edible aquifers, beaded bracelets, etc. will be used.
6. Storm Drain Stenciling
7. Stormwater Hotline
  - 7.1. The stormwater hotline will be available for citizens to call for any inquiries, questions and/or concerns that relate to stormwater or illicit discharges. Calls will be logged with the person's name if they are willing to give that information, address, the problem and what actions were taken to fix the problem.
8. Tributary Signage
  - 8.1. Tributary signage is being used to inform people of where stormwater outfalls are located and inform them that dumping is illegal. "CLEAN UP AFTER YOUR PET" signs will remain in all seven parks in Sedalia.

## **2. Public Involvement/Participation**

### Permit Requirement:

Implement a public involvement/participation program

### Decision Process:

Volunteers from Boy and Girl Scouts and the Stream Team will be asked to aid the City in keeping the waters clean from debris. These groups are currently active in the community and will prove to be beneficial. The City will ask that volunteers take part in water quality testing and water outfall inspections. Public meetings held bi-annually will allow documentation of comments and issues will be addressed to ensure that flooding and water flow are not a problem within the City. Volunteers will be targeted through bilingual volunteer messages to ensure different ethnic groups are reached. Businesses will be targeted through flyers to ensure they are generating the least amount of pollution possible.

### Evaluating Success:

Success will be measured through pollutant removal by volunteers, number of volunteers recruited and citizen participation.

### Description of Best Management Practices and Implementation Plan

1. Involving the Public through Meetings/Citizens Panel
  - 1.1. The City will conduct two public meetings each year. A citizen's stormwater management panel will be organized to address questions, concerns or ideas from the general public.
2. Storm Drain Stenciling
  - 2.1. Storm drain stenciling will be a way for members of the community to become active in reducing the amount of illicit discharges. Members can not only stencil the drains, but clean them out as well. All members of the community will be asked to participate. We will reach out to every type of ethnic and economic group possible by using multi-language materials and broadcasting regularly. Included in the outreach will be school aged children, businesses and the general public.

3. Community Clean-ups
  - 3.1. A community cleanup will be conducted quarterly if volunteers are available. The frequency of cleanups will be increased as the volunteer levels increase.
4. Citizen Watch Groups
  - 4.1. Volunteers for a citizens watch group will be solicited. This group will be asked to report illegal dumping and monitor storm drains. Volunteers will be reached through media and possibly door to door. The public can call the stormwater hotline for more information.
5. Volunteer Educators/Speakers
  - 5.1. Volunteer educators and speakers will be utilized. The City will ask college students and educators to communicate with others the importance of keeping the stormwater runoff pollutant free.
6. Volunteer Water Quality Monitoring
  - 6.1. Science classes, Stream Teams and other volunteers will be asked to participate in water testing. This will not only aide the City by getting its water tested free of charge, but it will also show students and other volunteers the amount of pollutants in the drinking water. This will aide in their understanding of illicit discharges and the impacts on the environment and water quality.
7. Adopt a Storm Drain
  - 7.1. Adopt a storm drain will be another form of community outreach. The number of volunteers used and storm drains maintained will be documented. Volunteers will be recognized in the local paper for helping keep the streams clean.

### **3. Illicit Discharge Detection Elimination**

#### Permit Requirement:

Develop, implement and enforce a program to detect and eliminate illicit discharges.

#### Program to Detect and Eliminate Illicit Discharges Including Illegal Dumping:

Hazardous spills are the responsibility of the City's Fire Department. Other non -hazardous materials will be cleaned by the City of Sedalia and/or the Fire Department. Disposal will be handled on a case by case basis.

#### Procedures for Program Evaluation and Assessment:

Program evaluation and assessment will be based on the amount of illicit discharges detected and eliminated, the amount of trash removed from water sources and the water quality change after one year.

#### Evaluating Success of Minimum Measure:

The success of this minimum measure will be determined by the water quality changes every year through reduced pollution.

## Best Management Practices:

1. GIS Map
  - 1.1. The City has developed a plan for GIS. This plan will include the location of all outfalls including the names and location of all waters that receive these discharges. All stormwater pipes on record have been documented.
2. Ordinance
  - 2.1. The City will devise an ordinance that allows for right of entry onto private property when an illicit discharge is suspected. The ordinance will cover enforcement procedures on correcting and eliminating the discharge. All discharges considered not to be an illicit discharge will be provided in the ordinance.
3. Plan to Locate Problem Areas
  - 3.1. The City will visually inspect each stormwater outfall monthly for apparent illicit discharges such as odor, color and signs of illegal dumping. The outfalls will be tested every two months for ammonia, PH, turbidity, conductivity, BOD, temperature and DO. Discharges found will be located, eliminated and cleaned. Fines will be levied in applicable cases. The City/volunteers will attempt to clean all illicit discharges or debris at the time of discovery. An inspection form and clean up form for the purpose of documenting inspection times, types of illicit discharges detected (if any) or amount of debris that was cleaned at the time of inspection will be available and signed by a supervisor.
4. Identify the Source of Contaminants
  - 4.1. The City will utilize zoning maps to identify areas with a higher likelihood of illicit discharges. Areas to be targeted will be industrial and commercial sites. The City will monitor the industrial permits to ensure that the levels are in conjunction with state and federal mandates. Residential areas will be inspected beginning with the oldest residential area of the City focusing on the old combined sewer outlet, older housing additions that still rely on septic tanks and businesses who deal with a large amount of petroleum and/or chemical products.
5. Devise a Plan to Remove/Correct Illicit Discharges
  - 5.1. Locating illicit discharges may require the City to do extensive testing on the water body to determine where the illicit discharge originated. The types of testing may include dye testing, smoke testing or tracing the discharge through pipes using the Water Pollution Control camera. The City will also rely on the public to report illicit discharges and illegal dumping. Signs are posted at all 10 outfalls identifying them as such. Stream walks and dry weather inspections will be conducted to inspect for illicit discharges.
6. Distribute Informative Brochures/Flyers
  - 6.1. Informative brochures will be targeted to businesses in the Sedalia city limits. These businesses will include but are not limited to restaurants, factories, garages/auto body shops, car washes and nurseries. These brochures/flyers will include updated information of the hazards of illegal discharges and improper disposal, which will correlate with the type of business they are operating. These information pamphlets will also explain the proper ways to dispose of illicit discharges and list company names that dispose of hazardous materials.
7. Publicize and Facilitate Public Reporting of Illicit Discharges
  - 7.1. Illegal dumping will be publicized in a Public Service Announcement through the local newspaper relaying up to date information to citizens on areas prone to dumping.
8. Coordinate Volunteers
  - 8.1. Volunteers will be asked to participate. If volunteers are not available, the City will take the initiative to inspect and clean the stormwater outfalls monthly.

9. Initiate Recycling Program

9.1. The City has a partnership with Banjo Recycling however the recycling area is not highly publicized; more efforts will be taken to inform the community of recycling locations and time of operation. A household hazardous waste drop off is conducted every two years.

10. Public Employee/Volunteer Training

10.1. The City has devised a PowerPoint Presentation which will aid as a training device on how to recognize, locate and eliminate illicit discharges both for municipal employees and the public.

#### **4. Construction Site Stormwater Runoff Control**

Permit Requirements:

Develop, implement and enforce a program to reduce pollutants in any stormwater runoff to their regulated small MS4 from construction activities that result in a land disturbance of greater to or equal to one acre.

Procedures for Receipt and Consideration of Information Submitted by the Public:

The stormwater hotline will be available to the public. All information submitted will be documented, investigated and responses mailed when applicable. Public meetings will be held every six months to further public involvement.

Requirements for Construction Site Operators to Implement Appropriate Erosion and Sediment Control, BMPs and Control Waste at Construction Sites:

Construction site operators will be given a copy of the ordinance as well as the option of purchasing a BMP pamphlet. The BMP pamphlet outlines how to dispose of left over materials such as discarded building materials, concrete truck washouts, chemicals, litter and sanitary waste. Anyone in non-compliance with the ordinance will be subject to revocations, stop work orders, fines and/or permit revocation for non-compliance.

Procedures for Considering the Potential Water Quality Impacts of Pre-Construction Site Plans:

Site plan reviews will consider the potential amount of erosion and sediment loss construction sites will incur, as well as the amount of land that will be disturbed. The construction site inspector will take into consideration the placement of water inlets and outfalls located near or around the construction site that may pose a potential threat to the quality of water. The construction site inspector will be given training to ensure the proper BMPs will be utilized for the type of land on and surrounding the property. A site plan review must be submitted and approved before construction may commence.

Procedures for Receipt and Consideration of Information Submitted by the Public:

The public will have the opportunity to call the stormwater hotline if they have questions or concerns. This information will be noted and inspected to ensure that the stormwater requirements are being met.

Evaluating the Success of this Minimum Measure:

The success of this minimum measure will be evaluated by the number of construction sites in compliance with the City ordinance. The success will be measured by the number of construction site operators who attend the training seminars and the reduced amount of water pollution from construction sites.

## Best Management Practices:

1. Ordinance
  - 1.1. An ordinance will be enforced to prevent illicit discharges from leaving construction sites. Construction operators will be required to implement BMPs to reduce runoff to the maximum extent practicable. The construction site inspector will have the authority to enforce any of the following options at his/her discretion; non-monetary penalties (such as stop work orders), fines and/or permit revocation for non-compliance.
2. Procedures for Site Plan Review
  - 2.1. It will be mandatory through the City's ordinance that construction site operators submit a Stormwater Pollution Prevention Plan to the City of Sedalia prior to the commencement of any work activities. The plans submitted will be designed to ensure the least amount of erosion and sediment runoff possible. The inspector will be trained in the BMPs for construction sites including proper installation and maintenance requirements.
3. Procedures for Site Inspection and Enforcement of Control Measures
  - 3.1. Site inspection will include a checklist of BMPs, as well as a visual inspection of all BMPs that are located on the construction property. All BMPs shall be in place and serve the purpose set out in the operator's original plan of action. Any stormwater runoff devices will be inspected to ensure runoff is being detained in the proper manner. Construction runoff inspections will be prioritized by the amount of land the construction activity will be disturbing. Prior compliance with stormwater runoff and implementing BMPs will also be taken into consideration if applicable. All construction sites will be inspected within 24 hours of a rain event and every 7 days or a combination of both.
4. BMP Booklet Available to Construction Site Operators
  - 4.1. A BMP booklet will be made available to the public. The BMP booklet will be on the City of Sedalia website and will also be made available in book form for operators to purchase. The stormwater hotline will be made available both online and on the BMP booklet for operator questions or concerns.
5. Offer a Training Class to Construction Operators
  - 5.1. A training class will be offered to construction operators which will be conducted bi-annually in the spring and fall.

## **5. Post-Construction Stormwater Management in New Development and Redevelopment**

### Permit Requirements:

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 that are less than one acre but part of a larger common plan of development.

### Develop and Implement Strategies which Include a Combination of Structural and/or Non-structural BMPs Appropriate for the Community:

The City already has an ordinance in place for detention/retention ponds. The City will utilize vegetative practices in City parks to enhance pollutant removal and improve natural site hydrology. The City will develop strategies for developers to implement in their post-construction activities through the BMP booklet.

### Ensuring Long-term Operation and Maintenance of BMPs:

Long term operation and maintenance of BMPs will be ensured by random inspections of sites. These sites will be observed at least yearly by the designated inspector. This will also be ensured through a contract with the developer, property owner or be the responsibility of the City on property with an easement.

### How the Program is Specifically Tailored for the Local Community's Individual Needs by Minimizing Water Quality Impacts:

The ordinance was chosen to meet the City of Sedalia's needs on reducing pollution. This program will minimize water quality impacts by ensuring that both structural and non-structural BMPs are being used and maintained properly. The City will attempt to minimize impervious cover, by ensuring contractors/construction operators are aware of the proper ways to incorporate new and redeveloped buildings into stormwater management practices.

### Identification of the Mechanisms and why the City chose these:

The ordinance is a way for the City to enforce the post-construction Stormwater Runoff Plan. The City chose to use a design manual and BMP booklet. The design manual will set out the basic guidelines for construction operators to follow and the BMP booklet will help construction operators in deciding which BMPs will be most appropriate for the site.

### How the Permittee will Ensure the Long-term Operation and Maintenance of their selected BMPs.

The City will ensure the long-term operation and maintenance of their selected BMPs by conducting random inspections of sites to ensure developers are in compliance with the ordinance. To ensure an agreement between both parties the City will contact post-development landowners or regional authorities to advise them of the changes taking place.

### Evaluating Success of Minimal Measure:

Evaluating the success of this minimal measure will be determined by the amount of compliance from developers, reduced amount of soil erosion, improved clarity of waters and participation in post-construction meetings. The number of inspections and fines levied will be another means of evaluating success.

### Best Management Practices

1. Education and Training on Post-Construction Runoff for City Employees, Construction Operators and the General Public
  - 1.1. The education program will consist of a PowerPoint presentation that directly identifies all aspects of structural and non-structural BMPs to be utilized for post-construction sites. This will be a training class designed for developers, public and City employees. The classes will also offer specific maintenance procedures that must take place after the BMPs have been implemented. The educational program will be two separate programs. The first will be BMPs utilized on site specific properties and give examples of what BMPs would be most appropriate for different land settings. The second class will deal with maintenance and preventative measures and what to look for.
2. Ordinance in Place for Post-Construction
  - 2.1. The post-construction ordinance will be combined with the construction ordinance and will address both construction activities and post-construction activities through site plan reviews and regular inspections on properties over one acre. A zoning ordinance is already a requirement of the City of Sedalia. The City will adopt an ordinance to ensure compliance from construction site operators. This ordinance will affect post-construction of new development and redevelopment projects as well as guidelines for construction site operators. Redeveloped properties will be required to reduce the volume of water leaving the site by twenty percent or reduce impervious surfaces by twenty percent or a combination of both. The ordinance set forth will provide requirements and standards for development and redevelopment properties.

3. Design Manual in Place for Post-Construction
  - 3.1. The BMP manual will give post-construction operators the ideal tools to minimize impervious surfaces as well as minimize disturbance of soils and vegetation. The City currently has a design manual in place for the proper construction of properties. In this design manual it is required that all buildings do not connect their downspouts to a stormwater infrastructure.
4. Incorporate the Planning Zoning Committee to take into consideration possible Stormwater Impacts
  - 4.1. The Planning and Zoning Committee will be incorporated into stormwater site design criteria to ensure minimized water quality impacts.

## **6. Pollution Prevention/Good Housekeeping for Municipal Operations**

### Permit Requirements:

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.

### Evaluating Success:

The number of municipal employees attending training will be a part of evaluating success. Records taken of all municipal activities to reduce stormwater pollution will be recorded, such as vehicle repairs, amount of trash collected, number of employees trained and number of major spills cleaned. Decreased amount of pollutants from municipal operations will be another factor, i.e. truck leaks fixed. BMPs utilized on land disturbances and reduced usage of herbicides and pesticides will also be documented.

### Best Management Practices:

1. Operation and Maintenance Program
  - 1.1. Operation and maintenance schedules will be recorded regarding street sweeping, maintenance on municipal vehicles, fuel usage, salt usage and catch basins cleaned. The program to prevent or reduce pollutant runoff will include daily logs of vehicle inspections. Vehicles leaking polluting material will be taken out of service until repaired. The City does not own or operate any industrial facilities that are subject to EPA regulations. The municipal operations impacted will include the following: parks and recreation, street crews, trash pickup, fire station, dog pound, maintenance and sewer maintenance.
2. Infrastructure Repairs and Cleaning
  - 2.1. The City of Sedalia will inspect and make repairs on drainage infrastructure to include catch basins, manholes, pipes, open channels and ditches and residential retention/detention (R/D) pond facilities that are owned by the City. The long-term inspection procedure will be to maintain a yearly inspection and cleaning. Catch basins will be cleaned as needed after every storm to ensure that floatables and other pollutants are kept to a minimum. Water protection devices will be incorporated to minimize flooding and will be documented.
3. Employee Training Manuals
  - 3.1. The City does not have any documentation of previous training programs. The PowerPoint(s) presentations that will be used are from the EPA websites. The citizens of Sedalia will receive in a water bill mailing the same flyer that will be given to the municipal employees. Training programs will include: Fleet Maintenance-Vehicles, Land Disturbances, Material Storage, Parks and Grounds Maintenance, Solid Waste Handling, Stormwater Training, Streets and Drainage

4. Controls for Reducing or Eliminating Discharges of Pollutants
  - 4.1. The City will conduct regular street cleaning. All streets cleaned will be documented. The salt is stored inside one of the city garage holding spaces. Monthly inspections will be conducted of all municipal operations to ensure no illicit discharges are leaving municipal grounds.
5. Procedures for Proper Waste Disposal
  - 5.1. Procedures for proper disposal of waste will be included in the training manuals for municipal employees. Records will be kept of materials used, waste accumulated, as well as the date accumulated waste is disposed. All dredged material and accumulated sediments will be taken to the City owned closed lagoon cell. Floatables and other debris will be taken to the landfill.
6. Recycling Program
  - 6.1. The City Garage and Water Pollution Control currently save their cans to recycle; more barrels will be offered to take paper goods, plastics and other recyclable materials. A recycling of hazardous waste program is in tact and held every two years. The City has opened a yard waste drop off facility as of September 1, 2007. Public recycling is in a joint effort with the City of Sedalia and Banjo recycling.
7. Designated area for Snow Disposal
  - 7.1. The City of Sedalia has a designated area for snow that is located on Mill Street; however alternative locations are being considered.
8. Reduce Pesticides and Herbicides use
  - 8.1. The City uses a pesticide that is environmentally safe, called Mosquito Barrier. This product is 99.3% garlic juice with some food grade preservatives added. Spraying for mosquitoes is done only when a complaint is called in.